LONGHORN ARMY AMMUNITION PLANT KARNACK, TEXAS

ADMINISTRATIVE RECORD

Volume 5

2023

Bate Stamp Numbers
01139888 – 01141915

Prepared for

Department of the Army
Longhorn Army Ammunition Plant

1976–2023

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

VOLUME 5

2023

A.	Title:	(Cont'd) Appendix F, File 2, Level IV DoD Labs to Report—Quarterly Evaluation Report, 3rd Quarter (July–September) 2022, Groundwater Treatment Plant, Longhorn Army Ammunition Plant, Karnack, Texas, January 2023
	Author(s):	Department of the Army
	Recipient:	Environmental Protection Agency and Texas Commission on Environmental Quality
	Date:	January 6, 2023
	Bate Stamp:	01139888 – 01141915

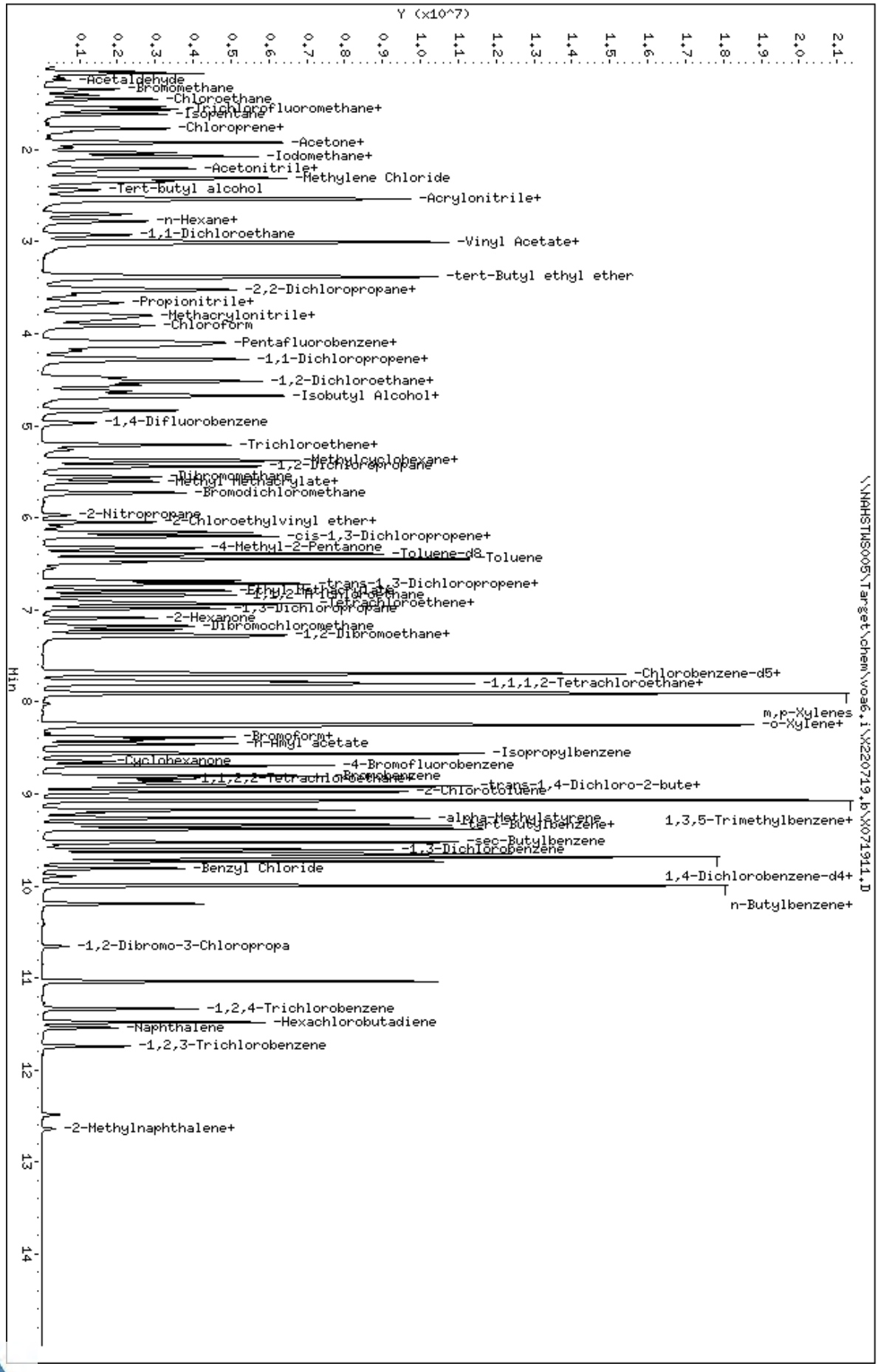
57	1,2-Dibromoethane	107	7.263	7.263 (0.947)	1496052	200.000	204.10(A)
88	1,2-Dichlorobenzene	146	9.992	9.992 (1.034)	2799420	200.000	201.86(A)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071911.D Page 2
Report Date: 08-Sep-2022 12:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
33	1,2-Dichloroethane	62	4.560	4.560	(0.918)	2012582	200.000	190.42
42	1,2-Dichloropropane	63	5.437	5.437	(1.094)	1450727	200.000	195.58
75	1,3,5-Trimethylbenzene	105	9.070	9.070	(0.938)	5246350	200.000	194.88
83	1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	3095537	200.000	201.30(A)
54	1,3-Dichloropropane	76	6.985	6.985	(0.911)	2324887	200.000	197.71
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	3163641	200.000	193.79
26	2,2-Dichloropropane	77	3.514	3.514	(0.840)	2176392	200.000	198.77
24	2-Butanone	43	3.578	3.578	(0.855)	881176	400.000	437.02(AH)
76	2-Chlorotoluene	91	8.976	8.976	(0.929)	4456010	200.000	187.57
52	2-Hexanone	43	7.086	7.086	(0.924)	1516523	400.000	428.94(A)
77	4-Chlorotoluene	91	9.070	9.070	(0.938)	5189116	200.000	195.69
82	p-Isopropyltoluene	119	9.651	9.651	(0.998)	5441966	200.000	201.30(A)
45	4-Methyl-2-Pentanone	43	6.329	6.329	(0.825)	2269263	400.000	414.21(A)
10	Acetone	43	1.981	1.981	(0.473)	633758	400.000	390.88(A)
37	Benzene	78	4.515	4.515	(0.909)	5472288	200.000	191.63
74	Bromobenzene	156	8.807	8.807	(0.911)	1893902	200.000	200.09(A)
29	Bromochloromethane	128	3.795	3.795	(0.907)	892720	200.000	196.99
39	Bromodichloromethane	83	5.729	5.729	(1.153)	2073168	200.000	203.70(A)
66	Bromoform	173	8.410	8.410	(1.096)	1117306	200.000	201.16(A)
6	Bromomethane	94	1.344	1.344	(0.321)	1068317	200.000	198.52
19	Carbon Disulfide	76	2.075	2.075	(0.496)	6899401	400.000	388.43(A)
34	Carbon Tetrachloride	117	4.268	4.268	(0.859)	1968804	200.000	189.40(H)
59	Chlorobenzene	112	7.694	7.694	(1.003)	4198880	200.000	196.95
7	Chloroethane	64	1.407	1.407	(0.336)	975969	200.000	189.31
28	Chloroform	83	3.911	3.911	(0.935)	2672684	200.000	197.14
3	Chloromethane	50	1.085	1.085	(0.259)	1500734	200.000	201.51(A)
27	cis-1,2-Dichloroethene	96	3.529	3.529	(0.843)	1625068	200.000	203.37(A)
46	cis-1,3-Dichloropropene	75	6.157	6.157	(1.239)	2613041	200.000	209.02(A)
55	Dibromochloromethane	129	7.176	7.176	(0.935)	1744246	200.000	209.01(A)
44	Dibromomethane	93	5.553	5.553	(1.118)	992325	200.000	199.39
2	Dichlorodifluoromethane	85	0.976	0.976	(0.233)	1493067	200.000	195.49
61	Ethylbenzene	106	7.802	7.802	(1.017)	2112026	200.000	196.11
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	962444	200.000	206.45(A)
67	Isopropylbenzene	105	8.563	8.563	(1.116)	6316064	200.000	195.02
62	m,p-Xylenes	106	7.907	7.907	(1.031)	5292303	400.000	395.08(A)
17	Methylene Chloride	84	2.307	2.307	(0.551)	1463710	200.000	200.64(A)
87	n-Butylbenzene	91	9.995	9.995	(1.034)	4708202	200.000	209.59(A)
73	n-Propylbenzene	91	8.916	8.916	(0.922)	7282081	200.000	199.17
92	Naphthalene	128	11.544	11.544	(1.194)	1361878	200.000	241.16(A)
63	o-Xylene	106	8.245	8.245	(1.075)	2579739	200.000	198.10
81	sec-Butylbenzene	105	9.523	9.523	(0.985)	6146815	200.000	196.74
64	Styrene	104	8.260	8.260	(1.077)	4441868	200.000	207.13(A)
78	tert-Butylbenzene	119	9.339	9.339	(0.966)	4414774	200.000	193.49
56	Tetrachloroethene	164	6.929	6.929	(0.903)	1363627	200.000	187.03
50	Toluene	91	6.449	6.449	(0.841)	6032619	200.000	190.87
20	trans-1,2-Dichloroethene	96	2.532	2.532	(0.605)	1400331	200.000	198.05
51	trans-1,3-Dichloropropene	75	6.682	6.682	(1.345)	2241759	200.000	216.52(A)
38	Trichloroethene	130	5.208	5.208	(1.048)	1647543	200.000	194.77
8	Trichlorofluoromethane	101	1.565	1.565	(0.374)	2331731	200.000	184.23
5	Vinyl Chloride	62	1.149	1.149	(0.275)	1561762	200.000	185.30

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.
H - Operator selected an alternate compound hit.



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071911.D
Date : 19-JUL-2022 14:56
Client ID: VSTD200
Sample Info: VSTD200;VSTD200;1;10;
Purge Volume: 5.0
Column phase: DB624

\\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071911.D

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071911.D
Inj Date : 19-JUL-2022 14:56
InstruID : voa6.i
LabSampID : VSTD200

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071915.D
Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 19-JUL-2022 16:20
Operator : PC Inst ID: voa6.i
Smp Info : CCV;CCV;2;;ICV
Misc Info : HS22052000V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\8260W.m
Meth Date : 08-Sep-2022 12:21 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 14:56 Cal File: X071911.D
Als bottle: 16 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.185	4.185	(1.000)	803279	50.0000	
* 36 1,4-Difluorobenzene	114	4.969	4.968	(1.000)	1177898	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	1099931	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.666	(1.000)	554211	50.0000	
$ 30 Dibromofluoromethane	113	4.103	4.103	(0.980)	393451	51.9327	51.93
$ 35 1,2-Dichloroethane-d4	65	4.478	4.474	(1.070)	422461	50.8929	50.89
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1372695	50.0189	50.01
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	511712	52.1682	52.16
60 1,1,1,2-Tetrachloroethane	131	7.773	7.776	(1.013)	375568	48.6005	48.60
31 1,1,1-Trichloroethane	97	4.088	4.088	(0.977)	538729	47.2761	47.27
68 1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	372935	47.9121	47.91
53 1,1,2-Trichloroethane	83	6.839	6.843	(0.892)	269933	47.7307	47.73
22 1,1-Dichloroethane	63	2.929	2.925	(0.700)	575772	46.5590	46.55
11 1,1-Dichloroethene	96	1.921	1.917	(0.459)	306381	45.6913	45.69
32 1,1-Dichloropropene	75	4.283	4.282	(0.862)	455600	47.9253	47.92
93 1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	168688	58.5498	58.54
71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	277578	46.2518	46.25
90 1,2,4-Trichlorobenzene	180	11.338	11.337	(1.173)	285078	56.4761	56.47
79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	1296372	48.7653	48.76
89 1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	32044	54.3117	54.31

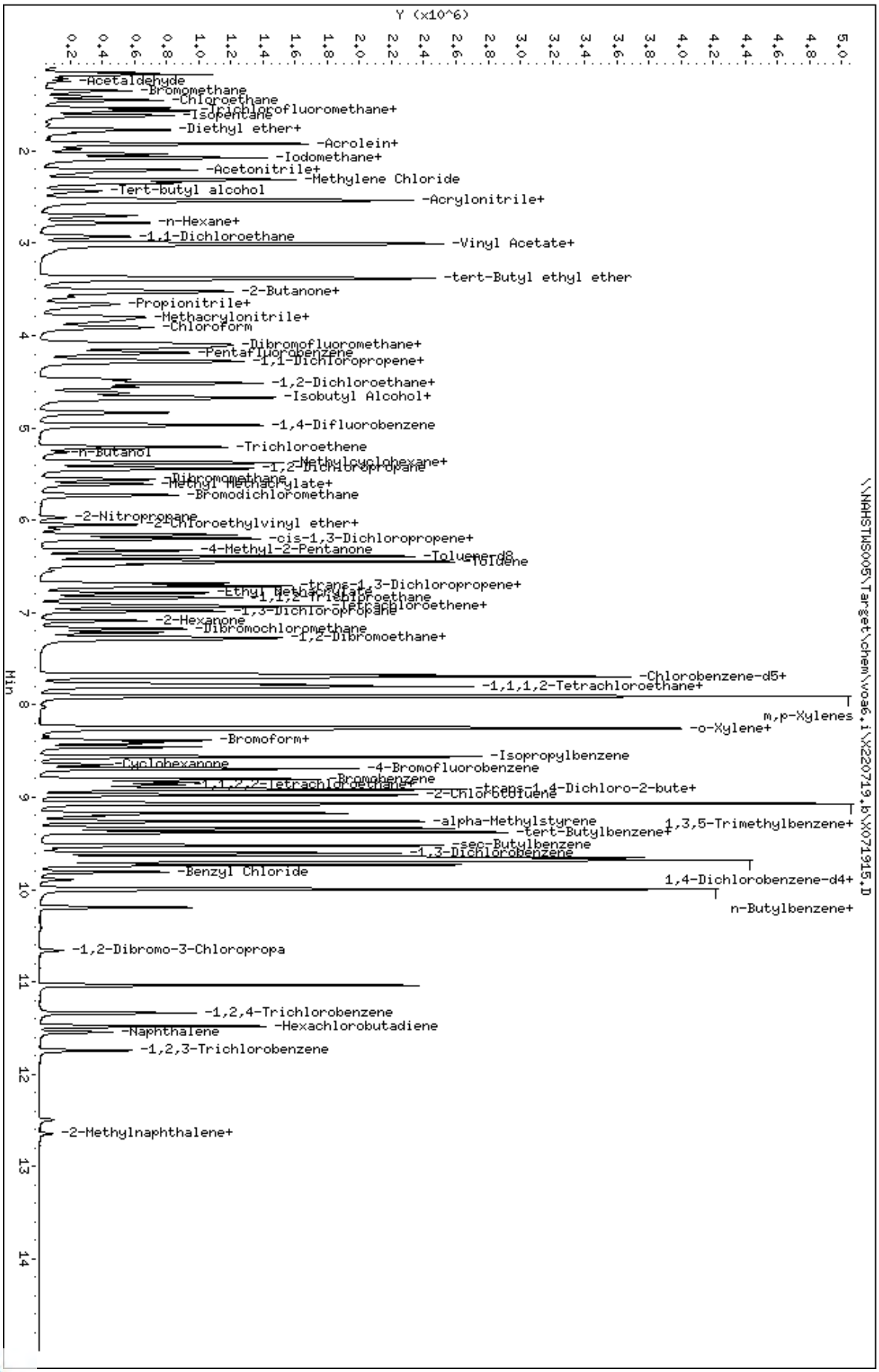
57 1,2-Dibromoethane	107	7.263	7.263 (0.947)	355369	49.5585	49.55
88 1,2-Dichlorobenzene	146	9.992	9.992 (1.034)	690253	49.7749	49.77

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071915.D Page 2
Report Date: 08-Sep-2022 12:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
33	1,2-Dichloroethane	62	4.560	4.560	(0.918)	487745	47.2147	47.21
42	1,2-Dichloropropane	63	5.437	5.437	(1.094)	341934	47.1626	47.16
75	1,3,5-Trimethylbenzene	105	9.070	9.070	(0.939)	1283913	47.6934	47.69
83	1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	756362	49.1885	49.18
54	1,3-Dichloropropane	76	6.982	6.985	(0.910)	552590	48.0362	48.03
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	785297	48.1053	48.10
26	2,2-Dichloropropane	77	3.514	3.514	(0.840)	537177	48.9036	48.90
24	2-Butanone	43	3.582	3.578	(0.856)	214703	106.544	106.54
76	2-Chlorotoluene	91	8.976	8.976	(0.929)	1080955	45.5033	45.50
52	2-Hexanone	43	7.090	7.086	(0.924)	360829	104.326	104.32
77	4-Chlorotoluene	91	9.070	9.070	(0.939)	1262067	47.5975	47.59
82	p-Isopropyltoluene	119	9.651	9.651	(0.999)	1319696	48.8179	48.81
45	4-Methyl-2-Pentanone	43	6.326	6.329	(0.825)	541981	101.124	101.12
10	Acetone	43	1.981	1.981	(0.473)	197688	117.868	117.86(M)
37	Benzene	78	4.515	4.515	(0.909)	1304561	46.7389	46.73
74	Bromobenzene	156	8.807	8.807	(0.912)	455307	48.1063	48.10
29	Bromochloromethane	128	3.799	3.795	(0.908)	208389	46.0110	46.01
39	Bromodichloromethane	83	5.726	5.729	(1.152)	484620	48.7163	48.71
66	Bromoform	173	8.410	8.410	(1.096)	257179	48.2740	48.27
6	Bromomethane	94	1.347	1.344	(0.322)	266154	48.4591	48.45
19	Carbon Disulfide	76	2.075	2.075	(0.496)	1671660	94.1671	94.16
34	Carbon Tetrachloride	117	4.268	4.268	(0.859)	466337	45.8974	45.89
59	Chlorobenzene	112	7.694	7.694	(1.003)	1006409	48.2555	48.25
7	Chloroethane	64	1.411	1.407	(0.337)	237277	46.0533	46.05
28	Chloroform	83	3.911	3.911	(0.935)	637932	47.0823	47.08
3	Chloromethane	50	1.085	1.085	(0.259)	356275	47.9064	47.90
27	cis-1,2-Dichloroethene	96	3.529	3.529	(0.843)	386717	48.4238	48.42
46	cis-1,3-Dichloropropene	75	6.157	6.157	(1.239)	612279	50.1068	50.10
55	Dibromochloromethane	129	7.177	7.176	(0.936)	406162	49.7511	49.75
44	Dibromomethane	93	5.553	5.553	(1.118)	234821	48.2731	48.27
2	Dichlorodifluoromethane	85	0.976	0.976	(0.233)	375605	49.0784	49.07
61	Ethylbenzene	106	7.803	7.802	(1.017)	511365	48.5367	48.53
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	238144	51.0844	51.08
67	Isopropylbenzene	105	8.564	8.563	(1.116)	1527409	48.2102	48.21
62	m,p-Xylenes	106	7.908	7.907	(1.031)	1298578	99.0935	99.09
17	Methylene Chloride	84	2.311	2.307	(0.552)	354520	47.9623	47.96
87	n-Butylbenzene	91	9.995	9.995	(1.035)	1136334	50.5879	50.58
73	n-Propylbenzene	91	8.912	8.916	(0.922)	1768242	48.3643	48.36
92	Naphthalene	128	11.544	11.544	(1.195)	334786	59.2863	59.28
63	o-Xylene	106	8.245	8.245	(1.075)	614343	48.2233	48.22
81	sec-Butylbenzene	105	9.523	9.523	(0.986)	1490865	47.7190	47.71
64	Styrene	104	8.260	8.260	(1.077)	1058982	50.4779	50.47
78	tert-Butylbenzene	119	9.336	9.339	(0.966)	1080631	47.3631	47.36
56	Tetrachloroethene	164	6.929	6.929	(0.903)	336020	47.1110	47.11
50	Toluene	91	6.449	6.449	(0.841)	1460598	47.2387	47.23
20	trans-1,2-Dichloroethene	96	2.536	2.532	(0.606)	332737	47.0862	47.08
51	trans-1,3-Dichloropropene	75	6.682	6.682	(1.345)	513764	50.7687	50.76
38	Trichloroethene	130	5.208	5.208	(1.048)	394013	47.6543	47.65
8	Trichlorofluoromethane	101	1.565	1.565	(0.374)	594796	47.0222	47.02
5	Vinyl Chloride	62	1.149	1.149	(0.275)	384663	45.6676	45.66

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071915.D
Date : 19-JUL-2022 16:20
Client ID: ICV
Sample Info: CCV;CCV;2;;ICV
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

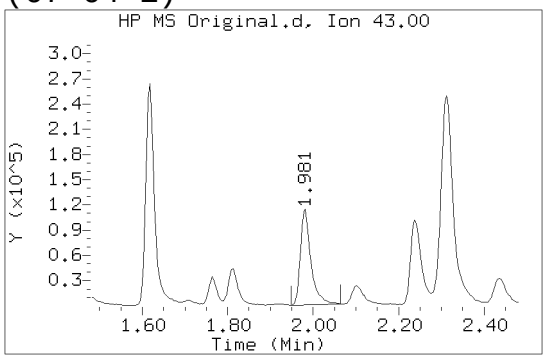
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071915.D
Inj Date : 19-JUL-2022 16:20
InstruID : voa6.i
LabSampID : ICV

Acetone (67-64-1)

Reason Code:

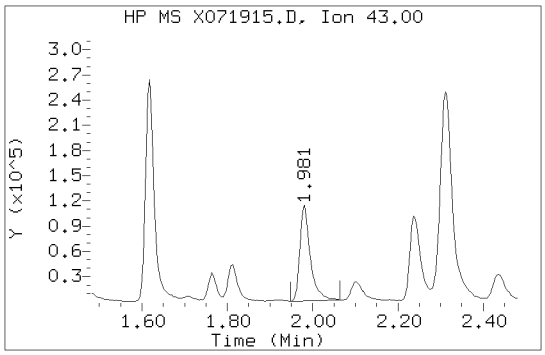
BEFORE

MASS
62
AREA
384663
HEIGHT
343232
25-Jul-2022
09:00
linh
pham



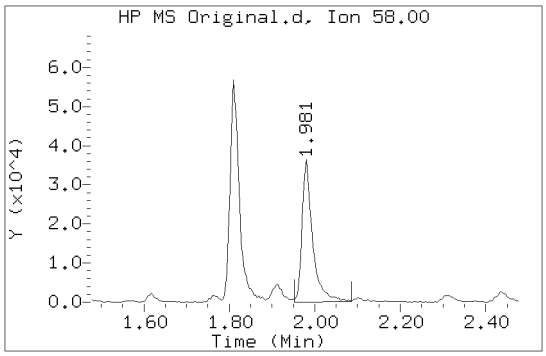
AFTER

MASS
43
AREA
197688
HEIGHT
114035
08-Sep-2022
12:20
linh
pham



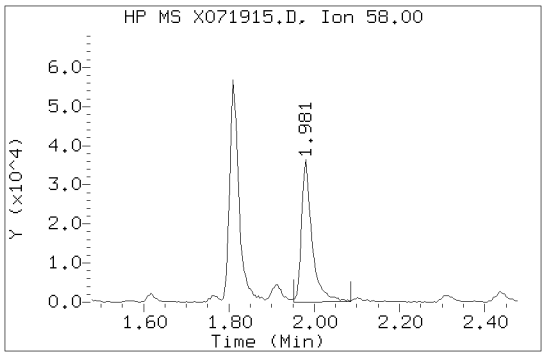
BEFORE

MASS
64
AREA
124297
HEIGHT
107814
25-Jul-2022
09:00
linh
pham



AFTER

MASS
58
AREA
63852
HEIGHT
36330
08-Sep-2022
12:20
linh
pham



right solutions.
right partner.

Raw Data VOA6 415491

Workorder

HS22080927

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

09/08/2022

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081901.D Page 1
Report Date: 19-Aug-2022 22:34

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081901.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 19-AUG-2022 10:35
Operator : PC Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : HS22052000V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\bfb.m
Meth Date : 26-Jul-2022 15:17 Linh.Pham Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7051

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
8.691	8.889	(0.000)	95	132736			0.00- 100.00	100.00
8.691	8.889	(0.000)	50	25808			15.00- 40.00	19.44
8.691	8.889	(0.000)	75	65952			30.00- 60.00	49.69
8.691	8.889	(0.000)	96	8885			5.00- 9.00	6.69
8.691	8.889	(0.000)	173	941			0.00- 2.00	0.82
8.691	8.889	(0.000)	174	114136			50.00- 0.00	85.99
8.691	8.889	(0.000)	175	8763			5.00- 9.00	7.68
8.691	8.889	(0.000)	176	108864			95.00- 101.00	95.38
8.691	8.889	(0.000)	177	8011			5.00- 9.00	7.36

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.44
75	30.00 - 60.00% of mass 95	49.69
96	5.00 - 9.00% of mass 95	6.69
173	Less than 2.00% of mass 174	0.71 (0.82)
174	Greater than 50.00% of mass 95	85.99
175	5.00 - 9.00% of mass 174	6.60 (7.68)
176	95.00 - 101.00% of mass 174	82.02 (95.38)
177	5.00 - 9.00% of mass 176	6.04 (7.36)

Data File: X081901.D
Spectrum: Scan 2160 (8.68)
Location of Maximum: 95.00
Number of points: 116

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	1285	69.00	14632	103.00	65	144.90	123
37.10	7193	70.00	1966	103.90	569	145.70	178
38.00	6255	71.00	331	105.10	457	147.90	357
39.10	3818	72.00	729	105.90	820	149.80	339
39.90	959	73.00	6536	106.80	349	151.80	68
41.00	1556	74.00	23328	108.80	90	152.70	73
42.10	1865	75.00	65952	109.90	144	153.90	93
43.10	947	76.00	6058	110.70	86	154.90	403
44.00	1166	77.00	1204	112.00	75	156.00	61
45.00	1267	78.00	615	113.00	82	157.00	541
47.00	1205	78.90	4230	114.90	248	157.90	81
48.00	687	79.90	1460	115.90	463	158.90	94
49.00	5840	80.90	4433	116.80	1015	160.90	195
50.00	25808	81.90	797	117.80	393	170.00	118
51.10	8334	83.00	359	118.90	732	172.90	941
52.00	530	84.10	168	120.10	112	173.90	114136
53.10	185	85.10	146	126.10	87	174.90	8763
54.00	208	86.00	292	126.90	100	175.90	108864
55.00	3315	87.00	4891	127.80	677	176.90	8011
56.00	2505	88.00	5570	128.90	305	177.90	253
57.10	4028	89.10	147	129.80	478	185.90	430
58.10	480	90.90	633	131.00	211	187.20	69
60.00	1297	92.00	4123	134.80	366	190.90	50
61.10	6765	92.90	5397	136.90	149	261.90	61
62.00	6662	94.00	14909	138.80	67	263.00	57
63.00	4710	95.00	132736	139.80	70	278.30	107
63.90	651	96.00	8885	140.90	1160		
66.00	165	97.00	237	142.10	125		
67.00	416	98.00	1456	142.90	1037		
68.00	13242	99.10	209	143.80	105		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081901.D Page 1

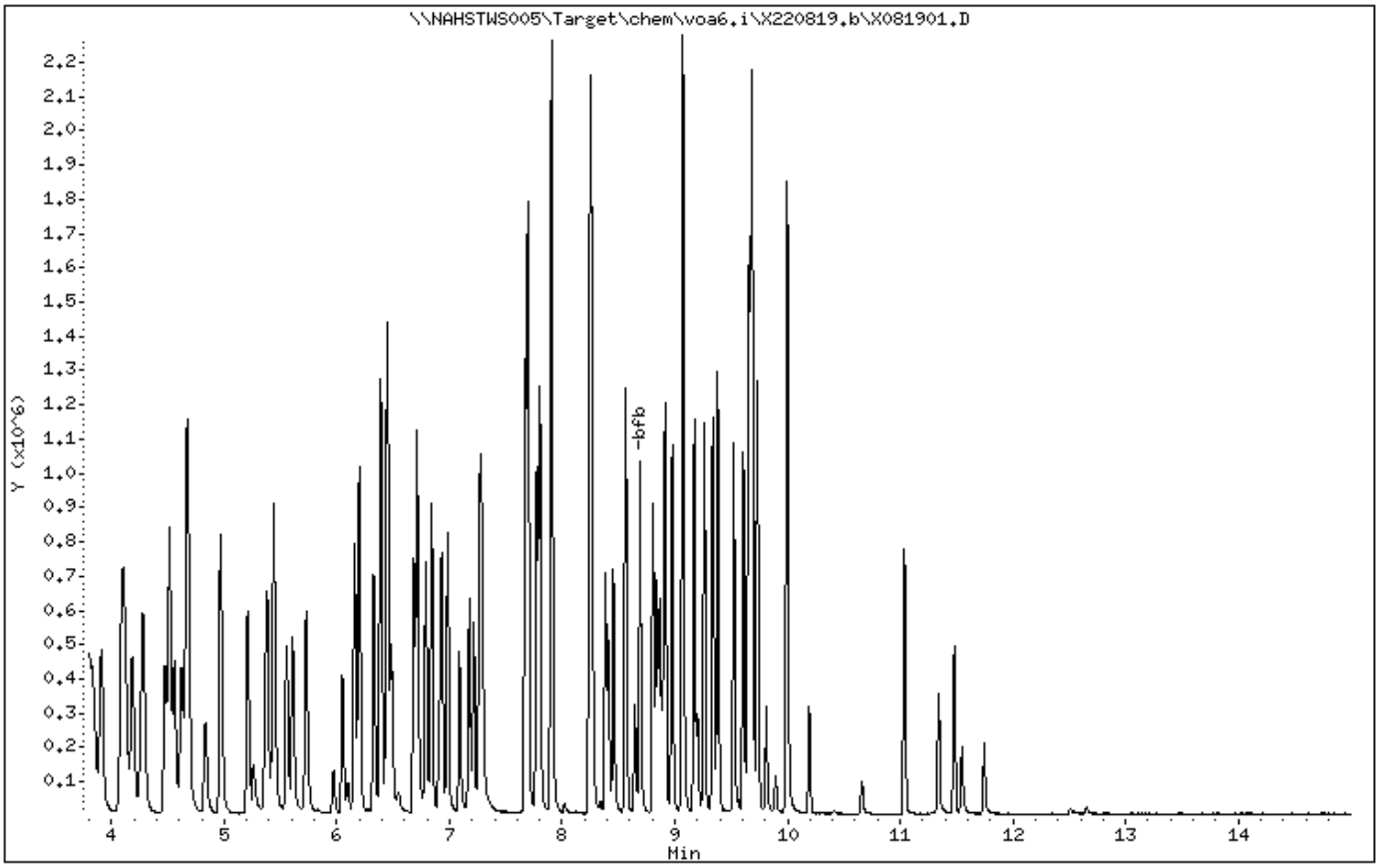
Date : 19-AUG-2022 10:35

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081901.D Page 2

Date : 19-AUG-2022 10:35

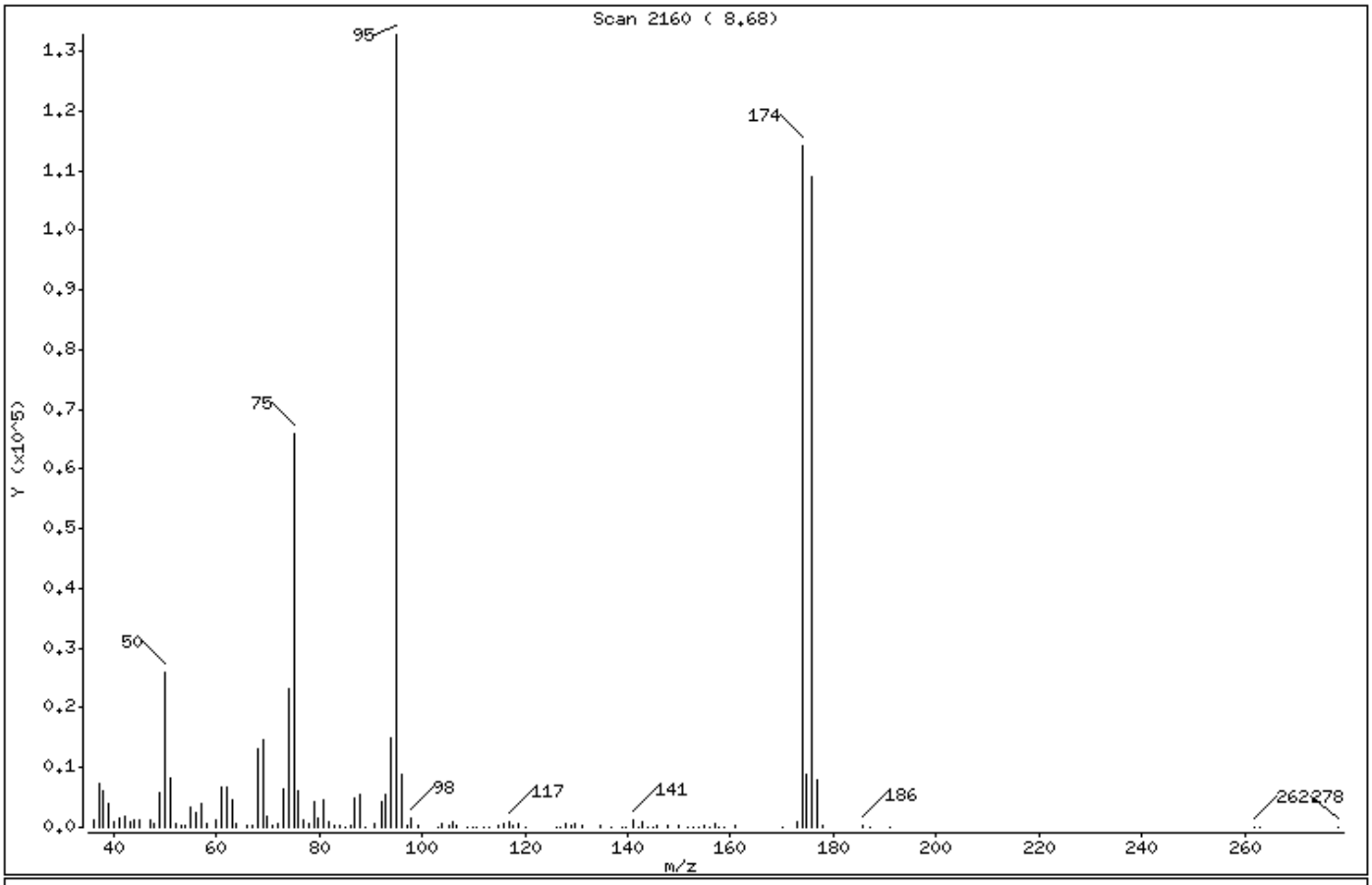
Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.44
75	30.00 - 60.00% of mass 95	49.69
96	5.00 - 9.00% of mass 95	6.69
173	Less than 2.00% of mass 174	0.71 (0.82)
174	Greater than 50.00% of mass 95	85.99
175	5.00 - 9.00% of mass 174	6.60 (7.68)
176	95.00 - 101.00% of mass 174	82.02 (95.38)
177	5.00 - 9.00% of mass 176	6.04 (7.36)

Date : 19-AUG-2022 10:35

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

Data File: X081901.D
Spectrum: Scan 2160 (8.68)
Location of Maximum: 95.00
Number of points: 116

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	1285	69.00	14632	103.00	65	144.90	123
37.10	7193	70.00	1966	103.90	569	145.70	178
38.00	6255	71.00	331	105.10	457	147.90	357
39.10	3818	72.00	729	105.90	820	149.80	339
39.90	959	73.00	6536	106.80	349	151.80	68
41.00	1556	74.00	23328	108.80	90	152.70	73
42.10	1865	75.00	65952	109.90	144	153.90	93
43.10	947	76.00	6058	110.70	86	154.90	403
44.00	1166	77.00	1204	112.00	75	156.00	61
45.00	1267	78.00	615	113.00	82	157.00	541
47.00	1205	78.90	4230	114.90	248	157.90	81
48.00	687	79.90	1460	115.90	463	158.90	94
49.00	5840	80.90	4433	116.80	1015	160.90	195
50.00	25808	81.90	797	117.80	393	170.00	118
51.10	8334	83.00	359	118.90	732	172.90	941
52.00	530	84.10	168	120.10	112	173.90	114136
53.10	185	85.10	146	126.10	87	174.90	8763
54.00	208	86.00	292	126.90	100	175.90	108864
55.00	3315	87.00	4891	127.80	677	176.90	8011
56.00	2505	88.00	5570	128.90	305	177.90	253
57.10	4028	89.10	147	129.80	478	185.90	430
58.10	480	90.90	633	131.00	211	187.20	69
60.00	1297	92.00	4123	134.80	366	190.90	50
61.10	6765	92.90	5397	136.90	149	261.90	61
62.00	6662	94.00	14909	138.80	67	263.00	57
63.00	4710	95.00	132736	139.80	70	278.30	107
63.90	651	96.00	8885	140.90	1160		
66.00	165	97.00	237	142.10	125		
67.00	416	98.00	1456	142.90	1037		
68.00	13242	99.10	209	143.80	105		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081903.D Page 1
Report Date: 08-Sep-2022 12:27

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081903.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 19-AUG-2022 11:17
Operator : PC Inst ID: voa6.i
Smp Info : CCV;CCV;2;;
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\8260W.m
Meth Date : 08-Sep-2022 12:27 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

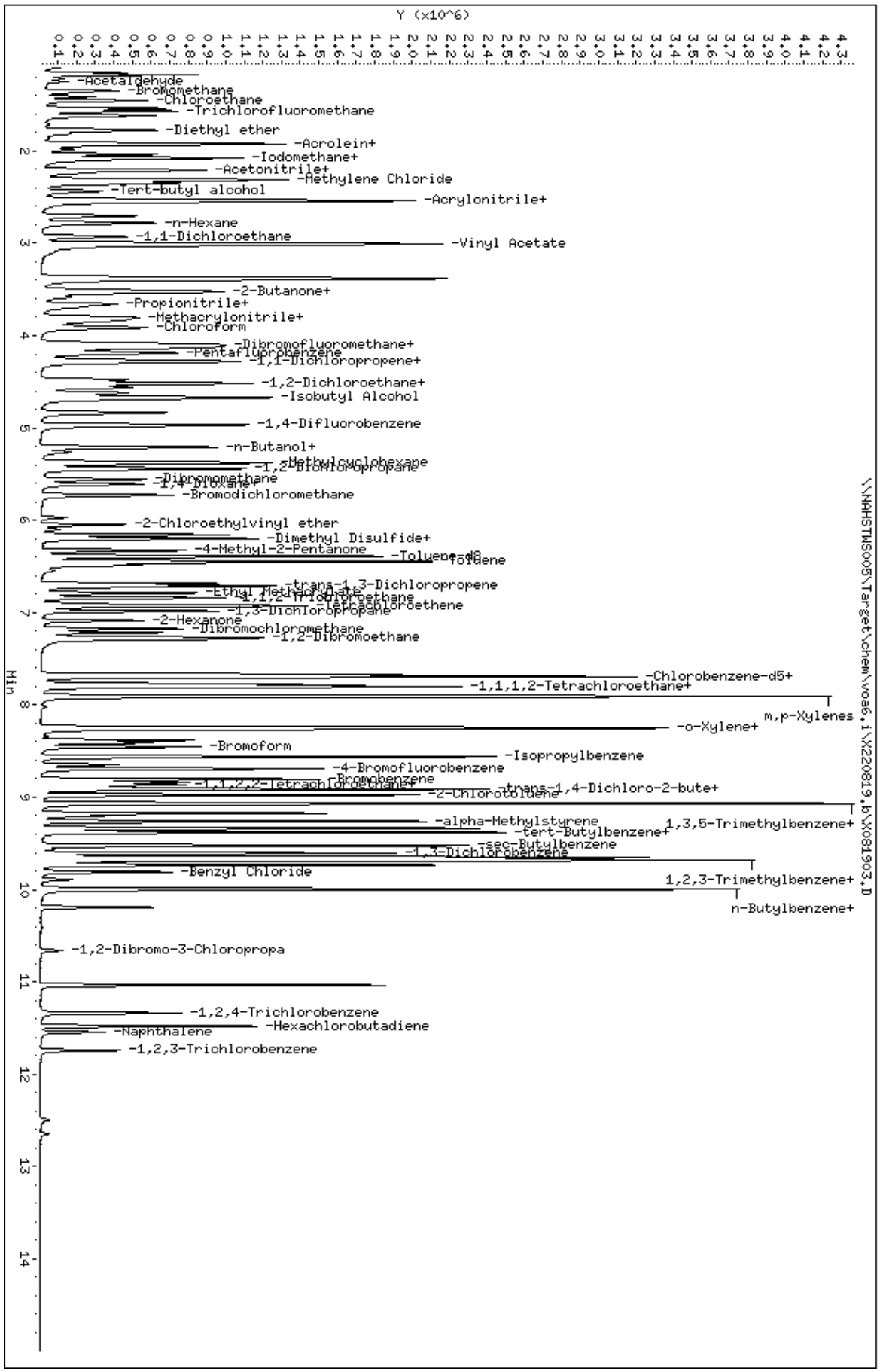
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.189	4.189	(1.000)	622775	50.0000	
* 36 1,4-Difluorobenzene	114	4.968	4.968	(1.000)	928349	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	852660	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	426129	50.0000	
$ 30 Dibromofluoromethane	113	4.102	4.102	(0.979)	308879	50.0000	52.59
$ 35 1,2-Dichloroethane-d4	65	4.477	4.477	(1.069)	346687	50.0000	53.88
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1096306	50.0000	51.53
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	403315	50.0000	53.05
60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	314252	50.0000	52.45
31 1,1,1-Trichloroethane	97	4.087	4.087	(0.976)	441113	50.0000	49.92
68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	307300	50.0000	51.34
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	217640	50.0000	49.64
22 1,1-Dichloroethane	63	2.929	2.929	(0.699)	464362	50.0000	48.43
11 1,1-Dichloroethene	96	1.921	1.921	(0.459)	223695	50.0000	43.02
32 1,1-Dichloropropene	75	4.286	4.286	(0.863)	381681	50.0000	50.94
93 1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	125726	50.0000	56.75
71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	230619	50.0000	49.97(M)
90 1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	217283	50.0000	55.98
79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	1114251	50.0000	54.51
89 1,2-Dibromo-3-Chloropropane	155	10.659	10.659	(1.103)	25688	50.0000	56.49

57 1,2-Dibromoethane	107	7.263	7.263 (0.947)	276936	50.0000	49.82
88 1,2-Dichlorobenzene	146	9.995	9.995 (1.035)	570607	50.0000	53.51

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
33 1,2-Dichloroethane	62	4.560	4.560	(0.918)	387629	50.0000	47.60
42 1,2-Dichloropropane	63	5.441	5.441	(1.095)	276164	50.0000	48.33
75 1,3,5-Trimethylbenzene	105	9.069	9.069	(0.939)	1115939	50.0000	53.91
83 1,3-Dichlorobenzene	146	9.605	9.605	(0.994)	633108	50.0000	53.54
54 1,3-Dichloropropane	76	6.981	6.981	(0.910)	443558	50.0000	49.74
84 1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	654565	50.0000	52.14
26 2,2-Dichloropropane	77	3.518	3.518	(0.840)	442991	50.0000	52.03
24 2-Butanone	43	3.585	3.585	(0.856)	160285	100.000	102.59
76 2-Chlorotoluene	91	8.976	8.976	(0.929)	925693	50.0000	50.67
52 2-Hexanone	43	7.086	7.086	(0.924)	300457	100.000	112.06
77 4-Chlorotoluene	91	9.069	9.069	(0.939)	1074056	50.0000	52.68
82 p-Isopropyltoluene	119	9.650	9.650	(0.999)	1173959	50.0000	56.47
45 4-Methyl-2-Pentanone	43	6.329	6.329	(0.825)	452872	100.000	109.00
10 Acetone	43	1.981	1.981	(0.473)	129100	100.000	98.33
37 Benzene	78	4.515	4.515	(0.909)	1042910	50.0000	47.40
74 Bromobenzene	156	8.807	8.807	(0.912)	374495	50.0000	51.46
29 Bromochloromethane	128	3.799	3.799	(0.907)	160872	50.0000	45.81
39 Bromodichloromethane	83	5.729	5.729	(1.153)	388702	50.0000	49.57
66 Bromoform	173	8.410	8.410	(1.096)	206590	50.0000	49.97
6 Bromomethane	94	1.347	1.347	(0.322)	192523	50.0000	45.12
19 Carbon Disulfide	76	2.078	2.078	(0.496)	1276335	100.000	92.73
34 Carbon Tetrachloride	117	4.267	4.267	(0.859)	384413	50.0000	48.00
59 Chlorobenzene	112	7.697	7.697	(1.003)	818409	50.0000	50.62
7 Chloroethane	64	1.411	1.411	(0.337)	176005	50.0000	44.06
28 Chloroform	83	3.911	3.911	(0.934)	511114	50.0000	48.65
3 Chloromethane	50	1.089	1.089	(0.260)	282454	50.0000	48.98
27 cis-1,2-Dichloroethene	96	3.533	3.533	(0.843)	305602	50.0000	49.35
46 cis-1,3-Dichloropropene	75	6.157	6.157	(1.239)	488596	50.0000	50.73
55 Dibromochloromethane	129	7.176	7.176	(0.935)	321487	50.0000	50.79
44 Dibromomethane	93	5.557	5.557	(1.118)	185277	50.0000	48.32
2 Dichlorodifluoromethane	85	0.980	0.980	(0.234)	283688	50.0000	47.80
61 Ethylbenzene	106	7.802	7.802	(1.017)	424822	50.0000	52.01
91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	193166	50.0000	53.89
67 Isopropylbenzene	105	8.563	8.563	(1.116)	1333208	50.0000	54.28
62 m,p-Xylenes	106	7.907	7.907	(1.031)	1071155	100.000	105.44
17 Methylene Chloride	84	2.314	2.314	(0.553)	279786	50.0000	48.83
87 n-Butylbenzene	91	9.995	9.995	(1.035)	1028556	50.0000	59.55
73 n-Propylbenzene	91	8.912	8.912	(0.922)	1558191	50.0000	55.42
92 Naphthalene	128	11.544	11.544	(1.195)	252418	50.0000	58.13
63 o-Xylene	106	8.245	8.245	(1.075)	508217	50.0000	51.46
81 sec-Butylbenzene	105	9.523	9.523	(0.986)	1342408	50.0000	55.88
64 Styrene	104	8.260	8.260	(1.077)	863491	50.0000	53.09
78 tert-Butylbenzene	119	9.336	9.336	(0.966)	964364	50.0000	54.97
56 Tetrachloroethene	164	6.929	6.929	(0.903)	272243	50.0000	49.23
50 Toluene	91	6.449	6.449	(0.841)	1179093	50.0000	49.19
20 trans-1,2-Dichloroethene	96	2.536	2.536	(0.605)	268930	50.0000	49.08
51 trans-1,3-Dichloropropene	75	6.685	6.685	(1.346)	413943	50.0000	51.90
38 Trichloroethene	130	5.208	5.208	(1.048)	314207	50.0000	48.21
8 Trichlorofluoromethane	101	1.568	1.568	(0.375)	453010	50.0000	46.19
5 Vinyl Chloride	62	1.152	1.152	(0.275)	290620	50.0000	44.50

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081903.D
Date : 19-AUG-2022 11:17
Client ID: CCV
Sample Info: CCV,CCV,2,,
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

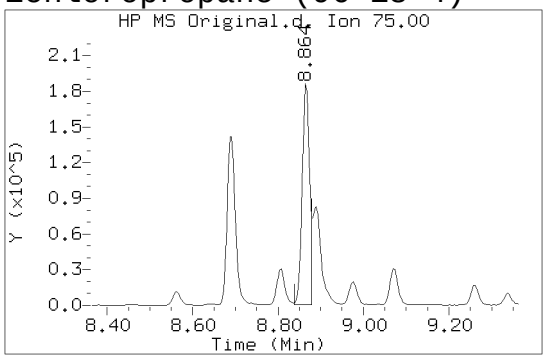
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081903.D
Inj Date : 19-AUG-2022 11:17
InstruID : voa6.i
LabSampID : CCV

1,2,3-Trichloropropane (96-18-4)

Reason Code:

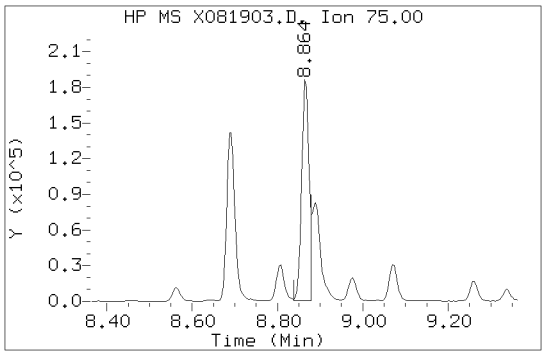
BEFORE

MASS
75
AREA
230619
HEIGHT
185913
08-Sep-2022
12:27
linh
pham



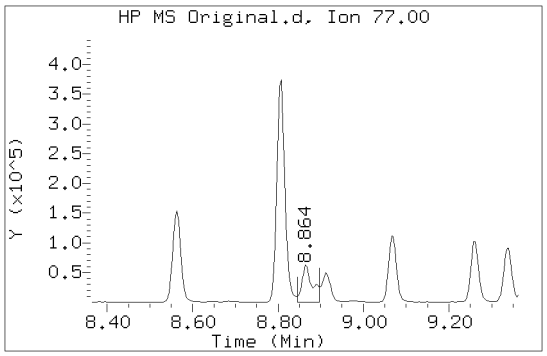
AFTER

MASS
75
AREA
230619
HEIGHT
185913
08-Sep-2022
12:27
linh
pham



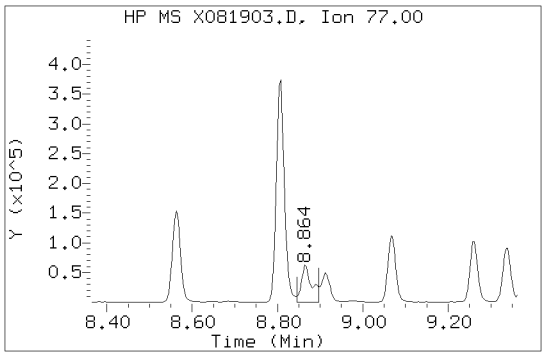
BEFORE

MASS
77
AREA
110916
HEIGHT
62334
08-Sep-2022
12:27
linh
pham



AFTER

MASS
77
AREA
110916
HEIGHT
62334
08-Sep-2022
12:27
linh
pham



ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081904.D
Lab Smp Id: CCB Client Smp ID: CCB
Inj Date : 19-AUG-2022 11:38
Operator : PC Inst ID: voa6.i
Smp Info : CCB;CCB;;;
Misc Info : HS22052000V6;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa6.i\X220819.b\8260W.m
Meth Date : 19-Aug-2022 22:32 pcabasca Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.189	4.189	(1.000)	667126	50.0000	
$ 30 Dibromofluoromethane	113	4.106	4.102	(0.980)	299737	47.5773	47.57
$ 35 1,2-Dichloroethane-d4	65	4.477	4.477	(1.069)	331752	48.1041	48.10
* 36 1,4-Difluorobenzene	114	4.968	4.968	(1.000)	947720	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	823254	50.0000	
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1100875	53.5957	53.59
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	352961	48.0125	48.01
* 70 1,4-Dichlorobenzene-d4	152	9.665	9.662	(1.000)	360049	50.0000	

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081905.D Page 1
Report Date: 08-Sep-2022 12:27

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081905.D
Lab Smp Id: VLCSW-220819 Client Smp ID: VLCSW-220819
Inj Date : 19-AUG-2022 11:59
Operator : PC Inst ID: voa6.i
Smp Info : VLCSW-220819;VLCSW-220819;3;;LCS
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\8260W.m
Meth Date : 08-Sep-2022 12:27 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

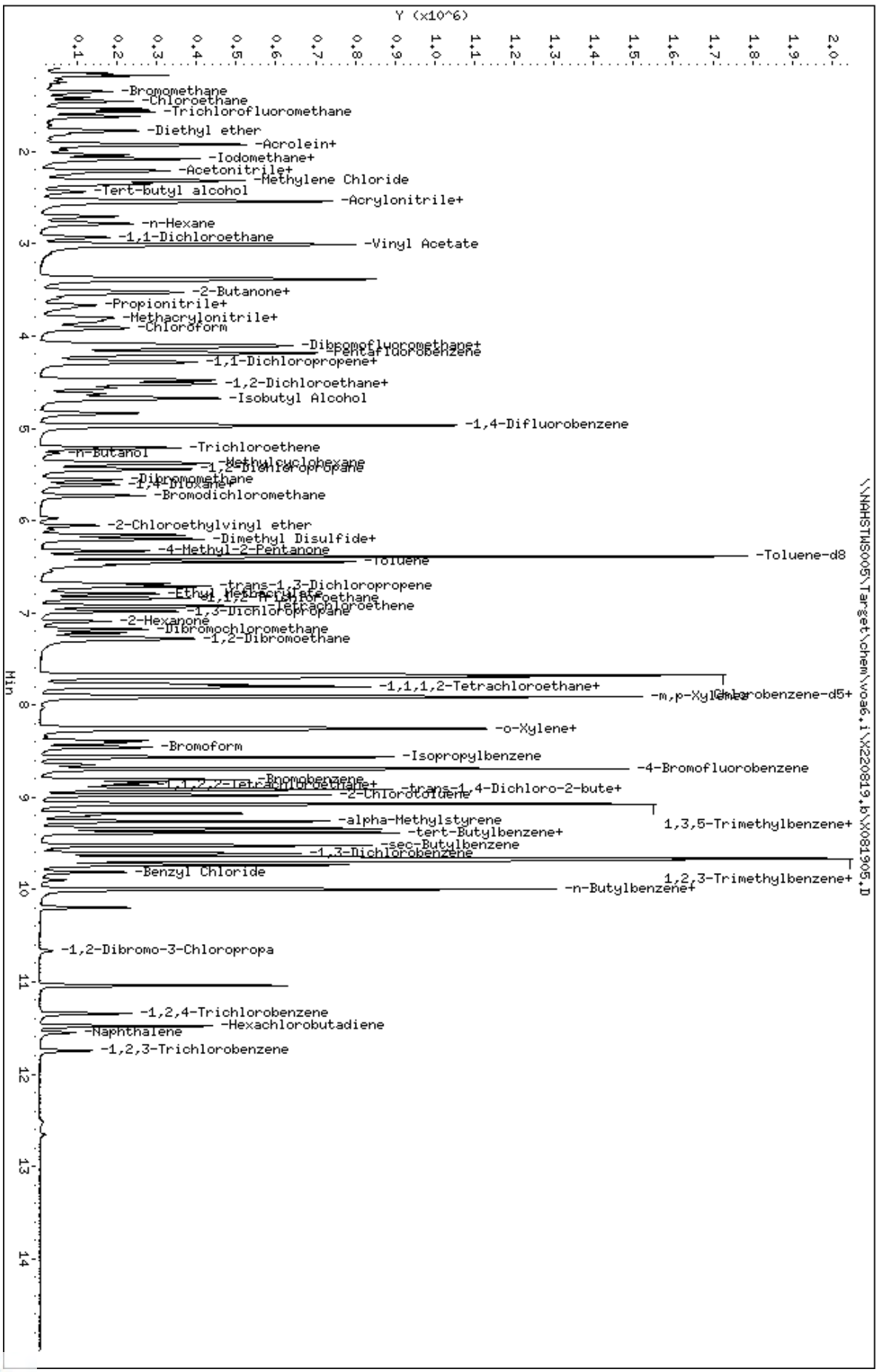
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.189	4.189	(1.000)	601746	50.0000	
* 36 1,4-Difluorobenzene	114	4.968	4.968	(1.000)	892670	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	818800	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.666	9.662	(1.000)	391283	50.0000	
$ 30 Dibromofluoromethane	113	4.103	4.102	(0.979)	300665	52.9915	52.99
$ 35 1,2-Dichloroethane-d4	65	4.477	4.477	(1.069)	328401	52.8239	52.82
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1070211	52.3862	52.38
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	383888	52.5806	52.58
60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	117300	20.3910	20.39
31 1,1,1-Trichloroethane	97	4.091	4.087	(0.977)	166046	19.4515	19.45
68 1,1,2,2-Tetrachloroethane	83	8.841	8.837	(0.915)	109577	19.9396	19.93
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	81797	19.4297	19.42
22 1,1-Dichloroethane	63	2.929	2.929	(0.699)	172385	18.6083	18.60
11 1,1-Dichloroethene	96	1.925	1.921	(0.460)	86756	17.2713	17.27
32 1,1-Dichloropropene	75	4.290	4.286	(0.863)	142497	19.7790	19.77
93 1,2,3-Trichlorobenzene	180	11.746	11.742	(1.215)	41095	20.2029	20.20
71 1,2,3-Trichloropropane	75	8.867	8.863	(0.917)	88369	20.8558	20.85(M)
90 1,2,4-Trichlorobenzene	180	11.341	11.337	(1.173)	69434	19.4831	19.48
79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	406712	21.6697	21.66
89 1,2-Dibromo-3-Chloropropane	155	10.663	10.659	(1.103)	8568	21.4295	21.42

57	1,2-Dibromoethane	107	7.263	7.263 (0.947)	103436	19.3775	19.37
88	1,2-Dichlorobenzene	146	9.995	9.995 (1.034)	205908	21.0310	21.03

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
33	1,2-Dichloroethane	62	4.564	4.560	(0.919)	149744	19.1271	19.12
42	1,2-Dichloropropane	63	5.441	5.441	(1.095)	106704	19.4201	19.42
75	1,3,5-Trimethylbenzene	105	9.069	9.069	(0.938)	412817	21.7202	21.72
83	1,3-Dichlorobenzene	146	9.606	9.605	(0.994)	229618	21.1507	21.15
54	1,3-Dichloropropane	76	6.985	6.981	(0.911)	165290	19.3019	19.30
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	241981	20.9954	20.99
26	2,2-Dichloropropane	77	3.514	3.518	(0.839)	163919	19.7738	19.77
24	2-Butanone	43	3.593	3.585	(0.858)	53277	35.2926	35.29
76	2-Chlorotoluene	91	8.976	8.976	(0.929)	344312	20.5292	20.52
52	2-Hexanone	43	7.090	7.086	(0.924)	101607	39.4642	39.46
77	4-Chlorotoluene	91	9.073	9.069	(0.939)	397175	21.2162	21.21
82	p-Isopropyltoluene	119	9.651	9.650	(0.998)	424373	22.2350	22.23
45	4-Methyl-2-Pentanone	43	6.329	6.329	(0.825)	164941	41.3417	41.34
10	Acetone	43	1.985	1.981	(0.474)	47357	33.6092	33.60
37	Benzene	78	4.519	4.515	(0.909)	390781	18.4741	18.47
74	Bromobenzene	156	8.807	8.807	(0.911)	137035	20.5075	20.50
29	Bromochloromethane	128	3.803	3.799	(0.908)	61077	18.0019	18.00
39	Bromodichloromethane	83	5.729	5.729	(1.153)	146850	19.4789	19.47
66	Bromoform	173	8.413	8.410	(1.097)	72503	19.0484	19.04
6	Bromomethane	94	1.351	1.347	(0.323)	76968	17.8654	17.86
19	Carbon Disulfide	76	2.078	2.078	(0.496)	474609	35.6895	35.68
34	Carbon Tetrachloride	117	4.267	4.267	(0.859)	141497	18.3760	18.37
59	Chlorobenzene	112	7.694	7.697	(1.003)	312919	20.1554	20.15
7	Chloroethane	64	1.411	1.411	(0.337)	67043	17.3705	17.37
28	Chloroform	83	3.911	3.911	(0.934)	196048	19.3152	19.31
3	Chloromethane	50	1.089	1.089	(0.260)	106481	19.1447	19.14
27	cis-1,2-Dichloroethene	96	3.536	3.533	(0.844)	114356	19.1152	19.11
46	cis-1,3-Dichloropropene	75	6.157	6.157	(1.239)	181865	19.6387	19.63
55	Dibromochloromethane	129	7.176	7.176	(0.936)	117656	19.3600	19.36
44	Dibromomethane	93	5.557	5.557	(1.118)	68784	18.6583	18.65
2	Dichlorodifluoromethane	85	0.980	0.980	(0.234)	106537	18.4751	18.47
61	Ethylbenzene	106	7.802	7.802	(1.017)	159328	20.3151	20.31
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	71686	21.7804	21.78
67	Isopropylbenzene	105	8.563	8.563	(1.116)	493271	20.9149	20.91
62	m,p-Xylenes	106	7.907	7.907	(1.031)	401490	41.1566	41.15
17	Methylene Chloride	84	2.311	2.314	(0.552)	112613	19.8341	19.83
87	n-Butylbenzene	91	9.995	9.995	(1.034)	360510	22.7322	22.73
73	n-Propylbenzene	91	8.916	8.912	(0.922)	573044	22.2001	22.20
92	Naphthalene	128	11.551	11.544	(1.195)	81526	20.4488	20.44
63	o-Xylene	106	8.245	8.245	(1.075)	190590	20.0971	20.09
81	sec-Butylbenzene	105	9.523	9.523	(0.985)	491667	22.2899	22.28
64	Styrene	104	8.264	8.260	(1.077)	317934	20.3581	20.35
78	tert-Butylbenzene	119	9.339	9.336	(0.966)	348431	21.6303	21.63
56	Tetrachloroethene	164	6.929	6.929	(0.903)	102980	19.3954	19.39
50	Toluene	91	6.449	6.449	(0.841)	450904	19.5902	19.59
20	trans-1,2-Dichloroethene	96	2.539	2.536	(0.606)	100286	18.9446	18.94
51	trans-1,3-Dichloropropene	75	6.685	6.685	(1.346)	151066	19.6977	19.69
38	Trichloroethene	130	5.212	5.208	(1.049)	119064	19.0015	19.00
8	Trichlorofluoromethane	101	1.568	1.568	(0.375)	171632	18.1128	18.11
5	Vinyl Chloride	62	1.152	1.152	(0.275)	108509	17.1968	17.19

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081905.D
Date : 19-AUG-2022 11:59
Client ID: VLCSW-220819
Sample Info: VLCSW-220819;VLCSW-220819;3;;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

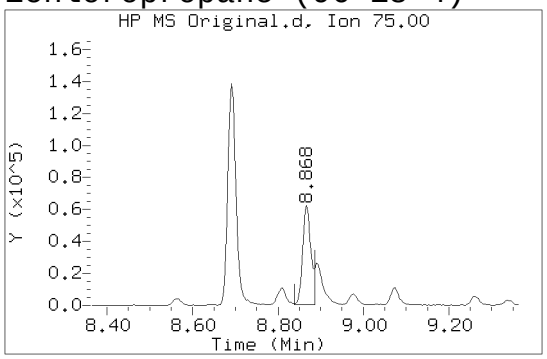
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081905.D
Inj Date : 19-AUG-2022 11:59
InstruID : voa6.i
LabSampID : VLCSW-220819

1,2,3-Trichloropropane (96-18-4)

Reason Code:

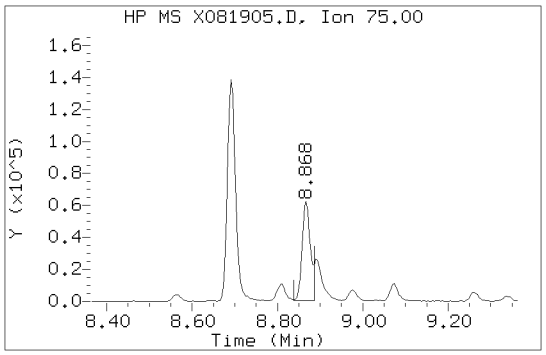
BEFORE

MASS
75
AREA
88369
HEIGHT
62093
08-Sep-2022
12:27
linh
pham



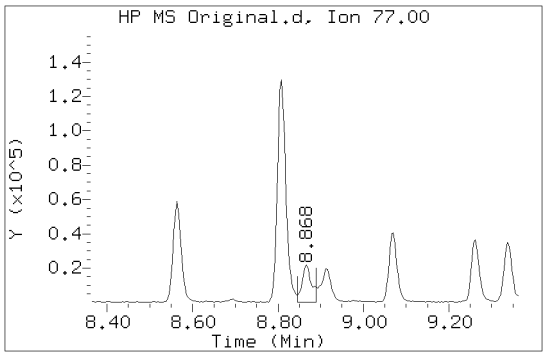
AFTER

MASS
75
AREA
88369
HEIGHT
62093
08-Sep-2022
12:27
linh
pham



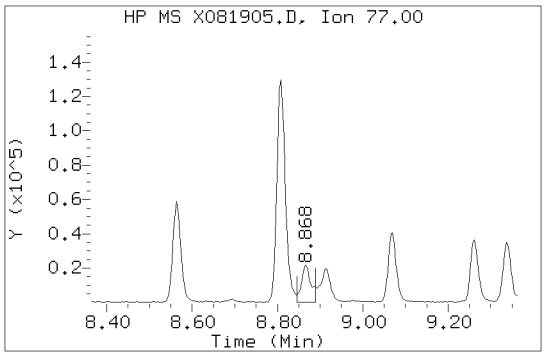
BEFORE

MASS
77
AREA
34934
HEIGHT
21710
08-Sep-2022
12:27
linh
pham



AFTER

MASS
77
AREA
34934
HEIGHT
21710
08-Sep-2022
12:27
linh
pham



ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081907.D
Lab Smp Id: VBLKW-220819 Client Smp ID: VBLKW-220819
Inj Date : 19-AUG-2022 12:41
Operator : PC Inst ID: voa6.i
Smp Info : VBLKW-220819;VBLKW-220819;3;;BLANK
Misc Info : HS22052000V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\8260W.m
Meth Date : 08-Sep-2022 12:27 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.185	4.189	(1.000)	644792	50.0000	
* 36 1,4-Difluorobenzene	114	4.968	4.968	(1.000)	929319	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	819045	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.665	9.662	(1.000)	368319	50.0000	
$ 30 Dibromofluoromethane	113	4.102	4.102	(0.980)	292176	47.9897	47.98
$ 35 1,2-Dichloroethane-d4	65	4.477	4.477	(1.070)	324034	48.6159	48.61
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1081511	52.9235	52.92
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	353463	48.3333	48.33

01139920

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081907.D

Date : 19-AUG-2022 12:41

Client ID: VBLKW-220819

Instrument: voa6.i

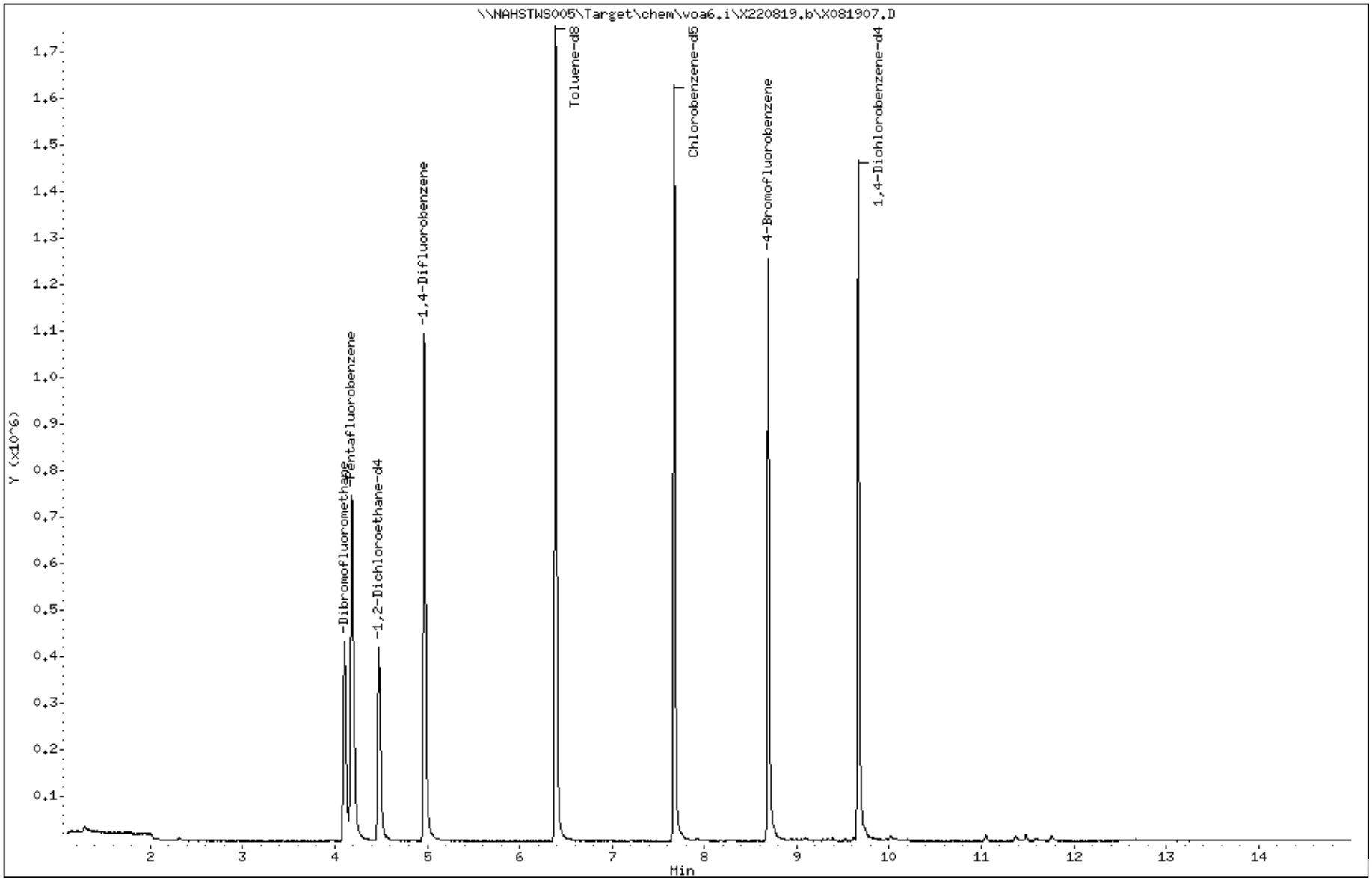
Sample Info: VBLKW-220819;VBLKW-220819;3;;BLANK

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081907.D
Inj Date : 19-AUG-2022 12:41
InstruID : voa6.i
LabSampID : VBLKW-220819

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081917.D Page 1
Report Date: 08-Sep-2022 12:27

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081917.D
Lab Smp Id: HS22080933-01MS Client Smp ID: HS22080933-01MS
Inj Date : 19-AUG-2022 16:12
Operator : PC Inst ID: voa6.i
Smp Info : HS22080933-01MS;HS22080933-01MS;3;;MS
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\8260W.m
Meth Date : 08-Sep-2022 12:27 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 17 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

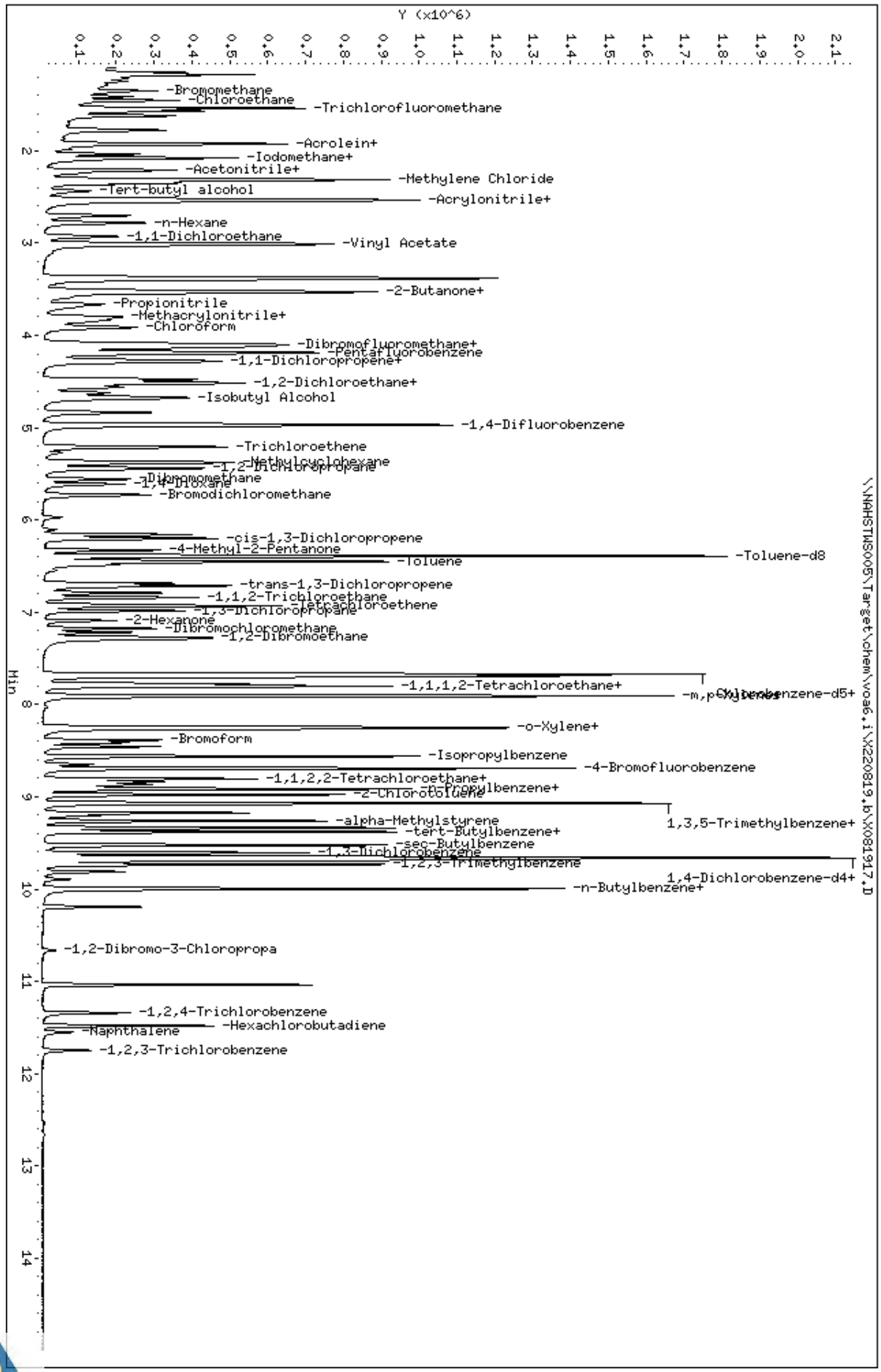
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.185	4.189	(1.000)	624696	50.0000	
* 36 1,4-Difluorobenzene	114	4.969	4.968	(1.000)	889570	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	805144	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	391626	50.0000	
$ 30 Dibromofluoromethane	113	4.106	4.102	(0.981)	283854	48.1247	48.12
$ 35 1,2-Dichloroethane-d4	65	4.478	4.477	(1.070)	310166	48.0283	48.02
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1050854	52.3112	52.31
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	367691	51.1949	51.19
60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	122668	21.6858	21.68
31 1,1,1-Trichloroethane	97	4.088	4.087	(0.977)	191865	21.6503	21.65
68 1,1,2,2-Tetrachloroethane	83	8.841	8.837	(0.915)	117570	21.3753	21.37
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	89361	21.5865	21.58
22 1,1-Dichloroethane	63	2.929	2.929	(0.700)	198642	20.6548	20.65
11 1,1-Dichloroethene	96	1.921	1.921	(0.459)	105943	20.3162	20.31
32 1,1-Dichloropropene	75	4.286	4.286	(0.863)	162083	22.5760	22.57
93 1,2,3-Trichlorobenzene	180	11.746	11.742	(1.216)	39146	19.2279	19.22
71 1,2,3-Trichloropropane	75	8.867	8.863	(0.918)	92493	21.8100	21.81(M)
90 1,2,4-Trichlorobenzene	180	11.341	11.337	(1.174)	74296	20.8291	20.82
79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	426436	22.7007	22.70
89 1,2-Dibromo-3-Chloropropane	155	10.663	10.659	(1.104)	8153	20.4107	20.41

57	1,2-Dibromoethane	107	7.263	7.263 (0.947)	112237	21.3829	21.38
88	1,2-Dichlorobenzene	146	9.996	9.995 (1.035)	217452	22.1906	22.19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
33	1,2-Dichloroethane	62	4.564	4.560	(0.919)	163217	20.9207	20.92
42	1,2-Dichloropropane	63	5.441	5.441	(1.095)	116185	21.2194	21.21
75	1,3,5-Trimethylbenzene	105	9.070	9.069	(0.939)	436994	22.9722	22.97
83	1,3-Dichlorobenzene	146	9.606	9.605	(0.994)	240975	22.1773	22.17
54	1,3-Dichloropropane	76	6.985	6.981	(0.911)	178758	21.2287	21.22
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	254920	22.0987	22.09
26	2,2-Dichloropropane	77	3.518	3.518	(0.841)	189164	22.0085	22.00
24	2-Butanone	43	3.589	3.585	(0.858)	60688	38.7250	38.72
76	2-Chlorotoluene	91	8.976	8.976	(0.929)	371233	22.1149	22.11
52	2-Hexanone	43	7.090	7.086	(0.924)	110853	43.7856	43.78
77	4-Chlorotoluene	91	9.073	9.069	(0.939)	420595	22.4476	22.44
82	p-Isopropyltoluene	119	9.651	9.650	(0.999)	457777	23.9642	23.96
45	4-Methyl-2-Pentanone	43	6.329	6.329	(0.825)	178454	45.4873	45.48
10	Acetone	43	1.985	1.981	(0.474)	44719	30.0285	30.02
37	Benzene	78	4.519	4.515	(0.909)	479406	22.7429	22.74
74	Bromobenzene	156	8.807	8.807	(0.912)	147720	22.0872	22.08
29	Bromochloromethane	128	3.799	3.799	(0.908)	67237	19.0894	19.08
39	Bromodichloromethane	83	5.730	5.729	(1.153)	159979	21.2943	21.29
66	Bromoform	173	8.414	8.410	(1.097)	77110	20.5017	20.50
6	Bromomethane	94	1.347	1.347	(0.322)	80546	18.0201	18.02
19	Carbon Disulfide	76	2.078	2.078	(0.497)	601633	43.5793	43.57
34	Carbon Tetrachloride	117	4.271	4.267	(0.860)	171802	22.3895	22.38
59	Chlorobenzene	112	7.694	7.697	(1.003)	337330	22.0963	22.09
7	Chloroethane	64	1.411	1.411	(0.337)	71371	17.8125	17.81(M)
28	Chloroform	83	3.912	3.911	(0.935)	216467	20.5434	20.54
3	Chloromethane	50	1.085	1.089	(0.259)	120023	20.7822	20.78
27	cis-1,2-Dichloroethene	96	3.533	3.533	(0.844)	365638	58.8728	58.87
46	cis-1,3-Dichloropropene	75	6.157	6.157	(1.239)	193813	21.0019	21.00
55	Dibromochloromethane	129	7.177	7.176	(0.936)	125362	20.9779	20.97
44	Dibromomethane	93	5.557	5.557	(1.118)	76285	20.7651	20.76
2	Dichlorodifluoromethane	85	0.980	0.980	(0.234)	113449	18.9555	18.95
61	Ethylbenzene	106	7.803	7.802	(1.017)	177661	23.0369	23.03
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	73434	22.2920	22.29
67	Isopropylbenzene	105	8.564	8.563	(1.116)	542543	23.3943	23.39
62	m,p-Xylenes	106	7.908	7.907	(1.031)	444533	46.3418	46.34
17	Methylene Chloride	84	2.311	2.314	(0.552)	117645	19.9647	19.96
87	n-Butylbenzene	91	9.996	9.995	(1.035)	389713	24.5521	24.55
73	n-Propylbenzene	91	8.912	8.912	(0.922)	628407	24.3236	24.32
92	Naphthalene	128	11.551	11.544	(1.196)	72400	18.1439	18.14
63	o-Xylene	106	8.245	8.245	(1.075)	208777	22.3883	22.38
81	sec-Butylbenzene	105	9.523	9.523	(0.986)	530229	24.0171	24.01
64	Styrene	104	8.264	8.260	(1.077)	340637	22.1818	22.18
78	tert-Butylbenzene	119	9.340	9.336	(0.967)	385347	23.9011	23.90
56	Tetrachloroethene	164	6.929	6.929	(0.903)	119661	22.9193	22.91
50	Toluene	91	6.449	6.449	(0.841)	507558	22.4257	22.42
20	trans-1,2-Dichloroethene	96	2.536	2.536	(0.606)	122492	22.2894	22.28
51	trans-1,3-Dichloropropene	75	6.686	6.685	(1.346)	160708	21.0280	21.02
38	Trichloroethene	130	5.212	5.208	(1.049)	158443	25.3742	25.37
8	Trichlorofluoromethane	101	1.569	1.568	(0.375)	204945	20.8338	20.83
5	Vinyl Chloride	62	1.153	1.152	(0.275)	127767	19.5049	19.50

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081917.D
Date : 19-AUG-2022 16:12
Client ID: HS22080933-01MS
Sample Info: HS22080933-01MS;HS22080933-01MS;3;;MS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

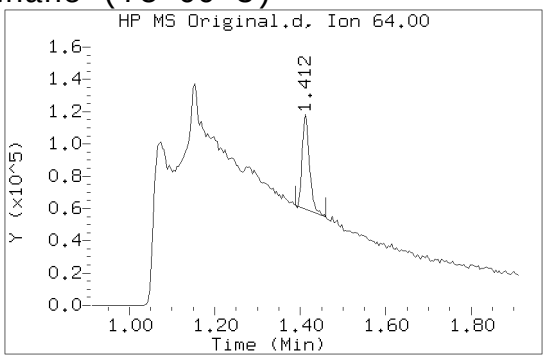
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081917.D
Inj Date : 19-AUG-2022 16:12
InstruID : voa6.i
LabSampID : HS22080933-01MS

Chloroethane (75-00-3)

Reason Code:

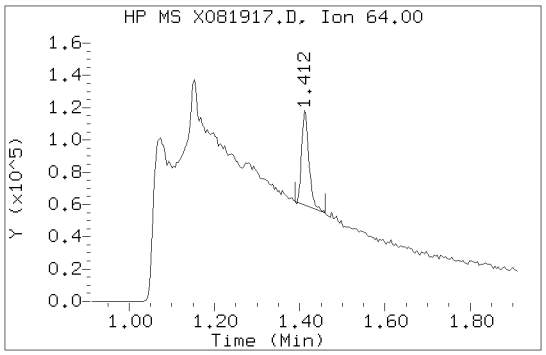
BEFORE

MASS
64
AREA
71371
HEIGHT
58584
08-Sep-2022
12:27
linh
pham



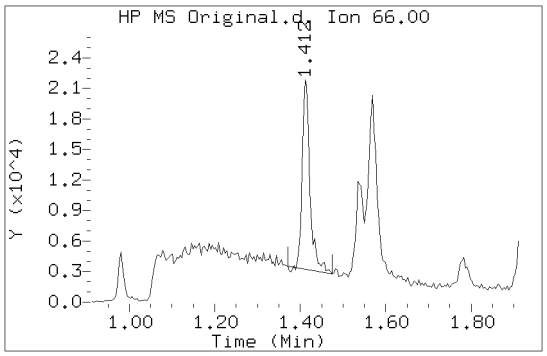
AFTER

MASS
64
AREA
71371
HEIGHT
58584
08-Sep-2022
12:27
linh
pham



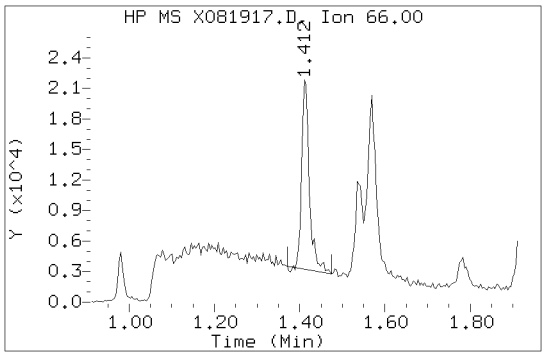
BEFORE

MASS
66
AREA
23951
HEIGHT
18580
08-Sep-2022
12:27
linh
pham



AFTER

MASS
66
AREA
23951
HEIGHT
18580
08-Sep-2022
12:27
linh
pham

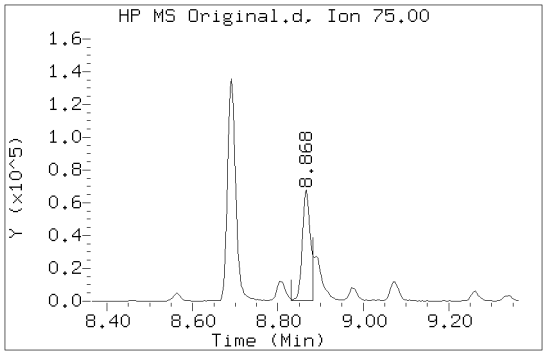


1,2,3-Trichloropropane (96-18-4)

Reason Code:

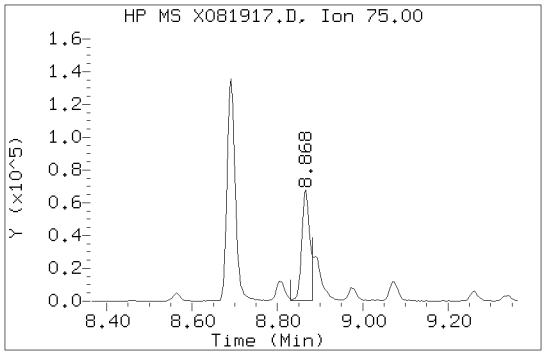
BEFORE

MASS
75
AREA
92493
HEIGHT
67697
08-Sep-2022
12:27
linh
pham



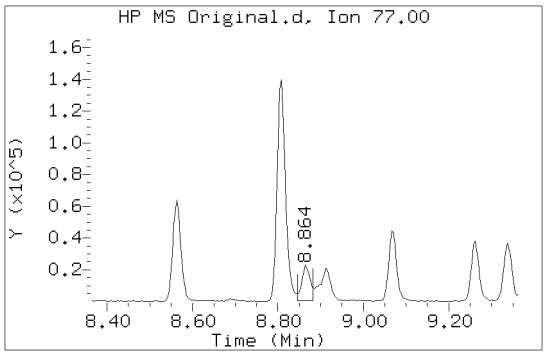
AFTER

MASS
75
AREA
92493
HEIGHT
67697
08-Sep-2022
12:27
linh
pham



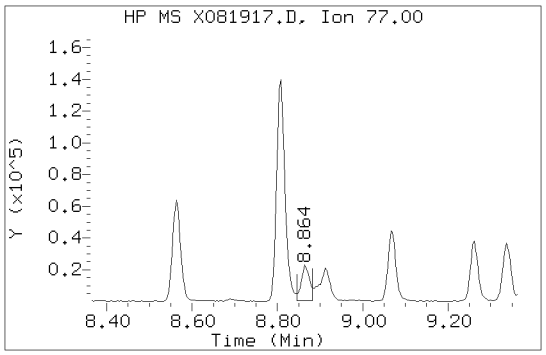
BEFORE

MASS
77
AREA
32189
HEIGHT
22533
08-Sep-2022
12:27
linh
pham



AFTER

MASS
77
AREA
32189
HEIGHT
22533
08-Sep-2022
12:27
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081918.D Page 1
Report Date: 08-Sep-2022 12:27

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081918.D
Lab Smp Id: HS22080933-01MSD Client Smp ID: HS22080933-01MSD
Inj Date : 19-AUG-2022 16:33
Operator : PC Inst ID: voa6.i
Smp Info : HS22080933-01MSD;HS22080933-01MSD;3;;MSD
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\8260W.m
Meth Date : 08-Sep-2022 12:27 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 17 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.185	4.189	(1.000)	641483	50.0000	
* 36 1,4-Difluorobenzene	114	4.968	4.968	(1.000)	919434	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	834524	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.665	9.662	(1.000)	412166	50.0000	
$ 30 Dibromofluoromethane	113	4.102	4.102	(0.980)	292524	48.2994	48.29
$ 35 1,2-Dichloroethane-d4	65	4.477	4.477	(1.070)	327415	49.3816	49.38
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1085835	52.1495	52.14
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	378785	50.8778	50.87
60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	119766	20.4274	20.42
31 1,1,1-Trichloroethane	97	4.087	4.087	(0.977)	189568	20.8313	20.83
68 1,1,2,2-Tetrachloroethane	83	8.841	8.837	(0.915)	120329	20.7867	20.78
53 1,1,2-Trichloroethane	83	6.843	6.839	(0.892)	87762	20.4539	20.45
22 1,1-Dichloroethane	63	2.929	2.929	(0.700)	198874	20.1378	20.13
11 1,1-Dichloroethene	96	1.925	1.921	(0.460)	103205	19.2732	19.27
32 1,1-Dichloropropene	75	4.286	4.286	(0.863)	161759	21.7990	21.79
93 1,2,3-Trichlorobenzene	180	11.746	11.742	(1.215)	49699	23.1949	23.19
71 1,2,3-Trichloropropane	75	8.867	8.863	(0.917)	96343	21.5857	21.58(M)
90 1,2,4-Trichlorobenzene	180	11.341	11.337	(1.173)	83582	22.2647	22.26
79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	425683	21.5313	21.53
89 1,2-Dibromo-3-Chloropropane	155	10.666	10.659	(1.104)	9627	22.8053	22.80

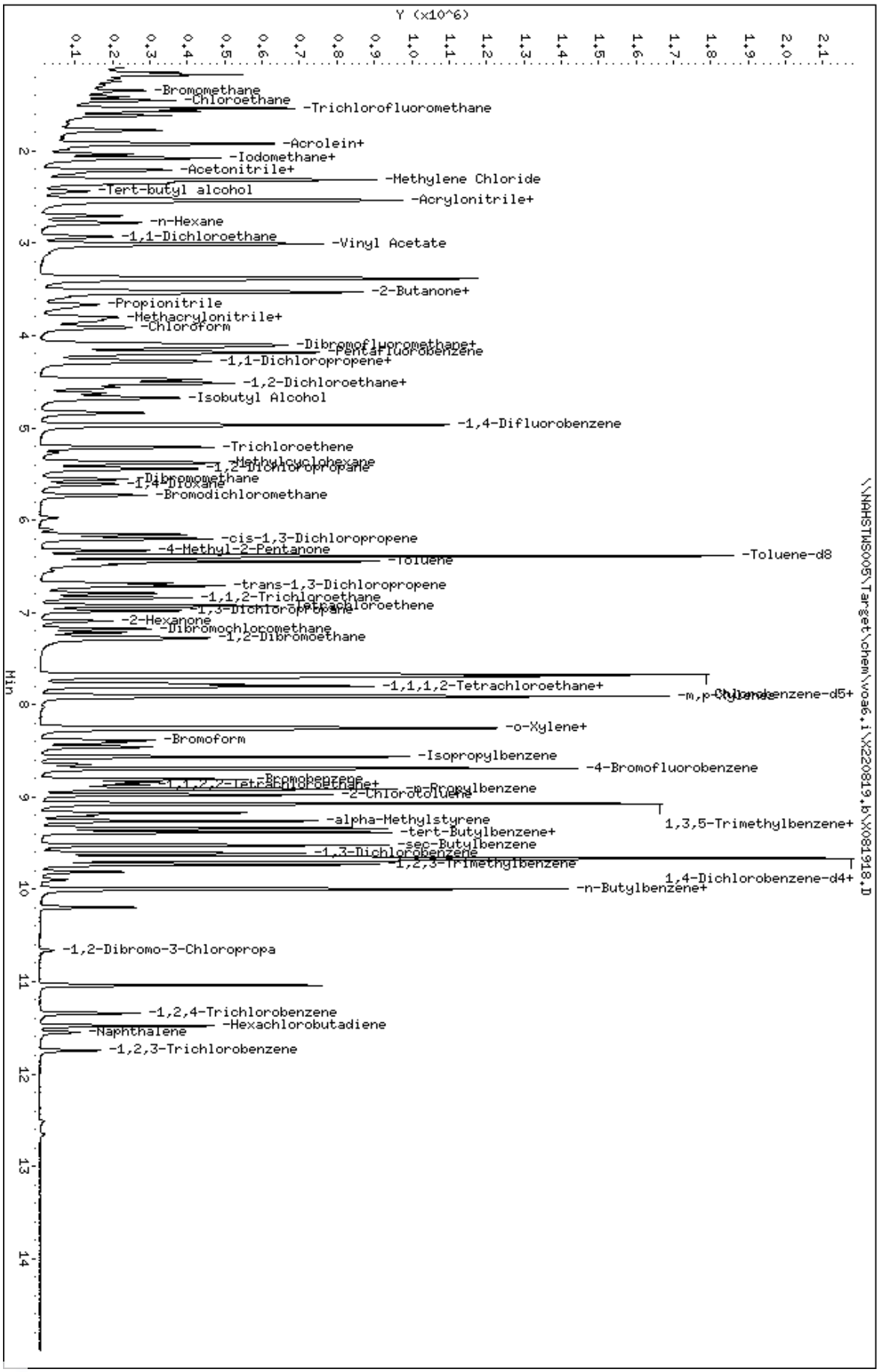
57	1,2-Dibromoethane	107	7.263	7.263 (0.947)	109655	20.1555	20.15
88	1,2-Dichlorobenzene	146	9.995	9.995 (1.034)	219365	21.2702	21.27

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081918.D Page 2
Report Date: 08-Sep-2022 12:27

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
33	1,2-Dichloroethane	62	4.564	4.560	(0.919)	171303	21.2440	21.24
42	1,2-Dichloropropane	63	5.441	5.441	(1.095)	114672	20.2628	20.26
75	1,3,5-Trimethylbenzene	105	9.069	9.069	(0.938)	437493	21.8523	21.85
83	1,3-Dichlorobenzene	146	9.609	9.605	(0.994)	243331	21.2782	21.27
54	1,3-Dichloropropane	76	6.981	6.981	(0.910)	176257	20.1948	20.19
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	255616	21.0548	21.05
26	2,2-Dichloropropane	77	3.518	3.518	(0.841)	186679	21.1414	21.14
24	2-Butanone	43	3.589	3.585	(0.858)	58031	36.0605	36.06
76	2-Chlorotoluene	91	8.976	8.976	(0.929)	364414	20.6269	20.62
52	2-Hexanone	43	7.090	7.086	(0.924)	109676	41.7956	41.79
77	4-Chlorotoluene	91	9.073	9.069	(0.939)	415269	21.0589	21.05
82	p-Isopropyltoluene	119	9.650	9.650	(0.998)	451932	22.4792	22.47
45	4-Methyl-2-Pentanone	43	6.329	6.329	(0.825)	175057	43.0505	43.05
10	Acetone	43	1.985	1.981	(0.474)	46491	30.4760	30.47
37	Benzene	78	4.519	4.515	(0.909)	470338	21.5879	21.58
74	Bromobenzene	156	8.807	8.807	(0.911)	145314	20.6447	20.64
29	Bromochloromethane	128	3.803	3.799	(0.909)	68350	18.8976	18.89
39	Bromodichloromethane	83	5.729	5.729	(1.153)	157745	20.3150	20.31
66	Bromoform	173	8.413	8.410	(1.097)	77386	19.8899	19.88
6	Bromomethane	94	1.347	1.347	(0.322)	66917	14.3174	14.31
19	Carbon Disulfide	76	2.078	2.078	(0.497)	585300	41.2868	41.28
34	Carbon Tetrachloride	117	4.271	4.267	(0.860)	169036	21.3135	21.31
59	Chlorobenzene	112	7.697	7.697	(1.003)	334884	21.1638	21.16
7	Chloroethane	64	1.411	1.411	(0.337)	66517	16.1666	16.16(M)
28	Chloroform	83	3.911	3.911	(0.935)	213958	19.7739	19.77
3	Chloromethane	50	1.085	1.089	(0.259)	112898	19.0413	19.04
27	cis-1,2-Dichloroethene	96	3.533	3.533	(0.844)	360501	56.5267	56.52
46	cis-1,3-Dichloropropene	75	6.160	6.157	(1.240)	191652	20.0932	20.09
55	Dibromochloromethane	129	7.176	7.176	(0.936)	125768	20.3049	20.30
44	Dibromomethane	93	5.557	5.557	(1.118)	75825	19.9695	19.96
2	Dichlorodifluoromethane	85	0.980	0.980	(0.234)	108900	17.7079	17.70
61	Ethylbenzene	106	7.802	7.802	(1.017)	174016	21.7699	21.76
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	76475	22.0582	22.05
67	Isopropylbenzene	105	8.563	8.563	(1.116)	537850	22.3754	22.37
62	m,p-Xylenes	106	7.907	7.907	(1.031)	435347	43.7864	43.78
17	Methylene Chloride	84	2.314	2.314	(0.553)	117902	19.4637	19.46
87	n-Butylbenzene	91	9.995	9.995	(1.034)	393433	23.5513	23.55
73	n-Propylbenzene	91	8.912	8.912	(0.922)	621246	22.8481	22.84
92	Naphthalene	128	11.551	11.544	(1.195)	93532	22.2716	22.27
63	o-Xylene	106	8.245	8.245	(1.075)	204294	21.1363	21.13
81	sec-Butylbenzene	105	9.523	9.523	(0.985)	523143	22.5152	22.51
64	Styrene	104	8.263	8.260	(1.077)	335933	21.1053	21.10
78	tert-Butylbenzene	119	9.339	9.336	(0.966)	378168	22.2869	22.28
56	Tetrachloroethene	164	6.929	6.929	(0.903)	114337	21.1286	21.12
50	Toluene	91	6.449	6.449	(0.841)	498167	21.2358	21.23
20	trans-1,2-Dichloroethene	96	2.539	2.536	(0.607)	120285	21.3150	21.31
51	trans-1,3-Dichloropropene	75	6.685	6.685	(1.346)	159591	20.2036	20.20
38	Trichloroethene	130	5.212	5.208	(1.049)	156697	24.2795	24.27
8	Trichlorofluoromethane	101	1.568	1.568	(0.375)	201963	19.9934	19.99
5	Vinyl Chloride	62	1.152	1.152	(0.275)	121433	18.0529	18.05

QC Flag Legend

M - Compound response manually integrated.



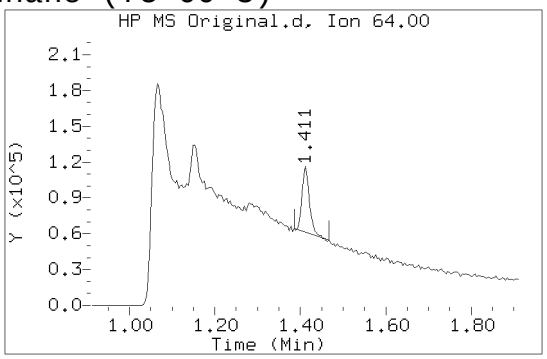
Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081918.D
Date : 19-AUG-2022 16:33
Client ID: HS220809333-01MSD
Sample Info: HS220809333-01MSD;HS220809333-01MSD;3;;MSD
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081918.D
Inj Date : 19-AUG-2022 16:33
InstruID : voa6.i
LabSampID : HS22080933-01MSD

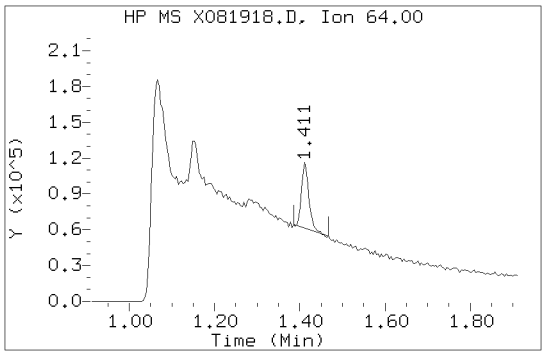
Chloroethane (75-00-3)

BEFORE
MASS
64
AREA
66517
HEIGHT
55094
08-Sep-2022
12:27
linh
pham

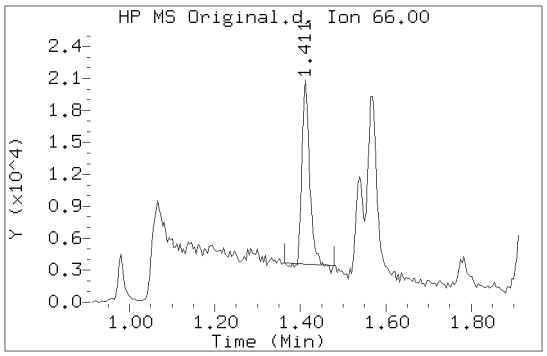


Reason Code:

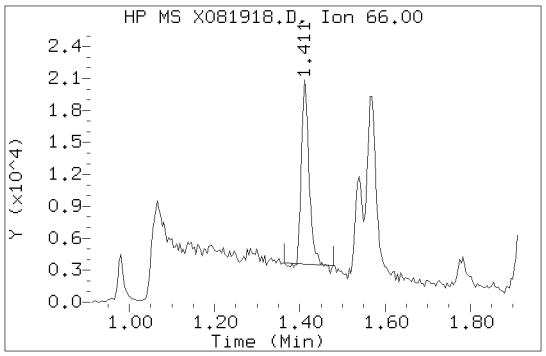
AFTER
MASS
64
AREA
66517
HEIGHT
55094
08-Sep-2022
12:27
linh
pham



BEFORE
MASS
66
AREA
21574
HEIGHT
17281
08-Sep-2022
12:27
linh
pham

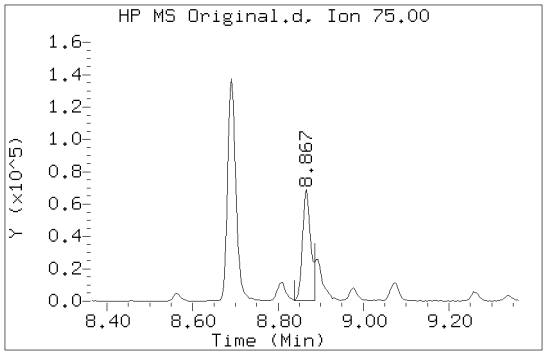


AFTER
MASS
66
AREA
21574
HEIGHT
17281
08-Sep-2022
12:27
linh
pham



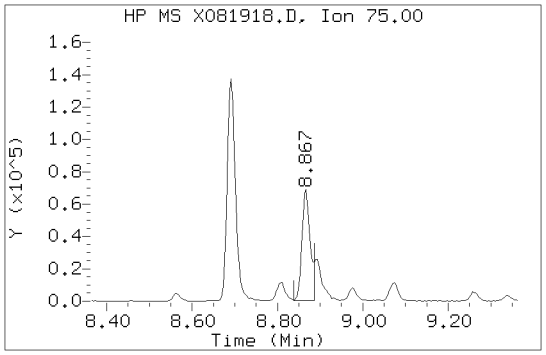
1,2,3-Trichloropropane (96-18-4)

BEFORE
MASS
75
AREA
96343
HEIGHT
68936
08-Sep-2022
12:27
linh
pham

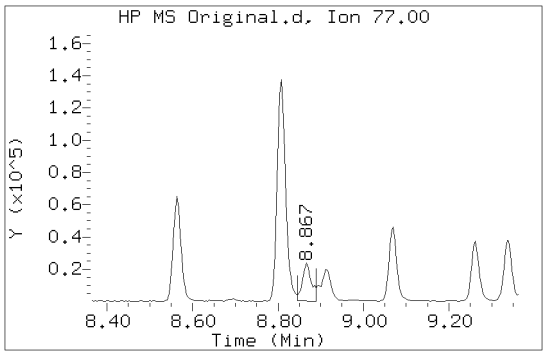


Reason Code:

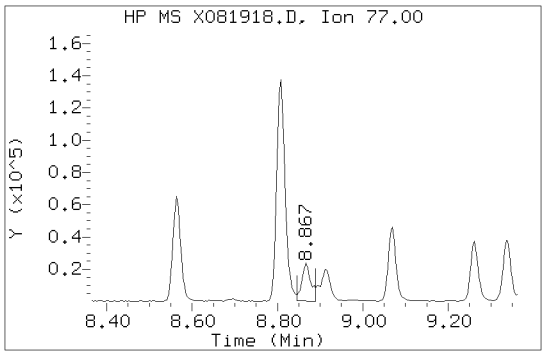
AFTER
MASS
75
AREA
96343
HEIGHT
68936
08-Sep-2022
12:27
linh
pham



BEFORE
MASS
77
AREA
36330
HEIGHT
23577
08-Sep-2022
12:27
linh
pham



AFTER
MASS
77
AREA
36330
HEIGHT
23577
08-Sep-2022
12:27
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081921.D Page 1
Report Date: 08-Sep-2022 12:28

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081921.D
Lab Smp Id: HS22080927-11 Client Smp ID: HS22080927-11
Inj Date : 19-AUG-2022 17:36
Operator : PC Inst ID: voa6.i
Smp Info : HS22080927-11;HS22080927-11;;;
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\8260W.m
Meth Date : 08-Sep-2022 12:27 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.189	4.189	(1.000)	617755	50.0000	
* 36 1,4-Difluorobenzene	114	4.968	4.968	(1.000)	885536	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	770529	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.665	9.662	(1.000)	342103	50.0000	
$ 30 Dibromofluoromethane	113	4.106	4.102	(0.980)	274488	47.0436	47.04
$ 35 1,2-Dichloroethane-d4	65	4.474	4.477	(1.068)	308672	48.3360	48.33
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1035078	53.8406	53.84
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	331124	48.1260	48.12

01139935

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081921.D

Page 1

Date : 19-AUG-2022 17:36

Client ID: HS22080927-11

Instrument: voa6.i

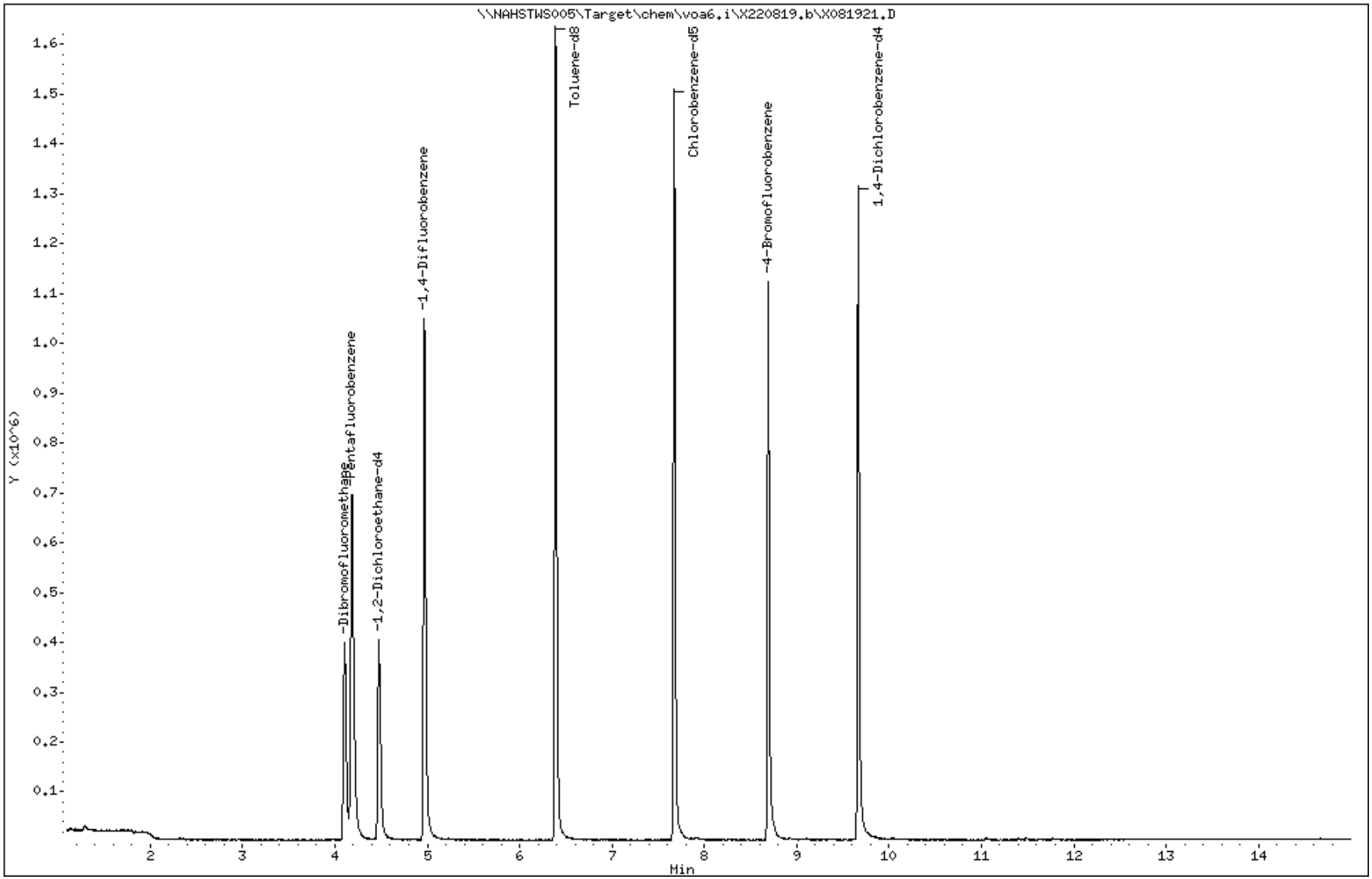
Sample Info: HS22080927-11;HS22080927-11;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081921.D
Inj Date : 19-AUG-2022 17:36
InstruID : voa6.i
LabSampID : HS22080927-11

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081922.D Page 1
Report Date: 08-Sep-2022 12:28

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081922.D
Lab Smp Id: HS22080927-03 Client Smp ID: HS22080927-03
Inj Date : 19-AUG-2022 17:57
Operator : PC Inst ID: voa6.i
Smp Info : HS22080927-03;HS22080927-03;;;
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\8260W.m
Meth Date : 08-Sep-2022 12:27 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.189	4.189	(1.000)	621019	50.0000	
* 36 1,4-Difluorobenzene	114	4.969	4.968	(1.000)	883278	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	783378	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.666	9.662	(1.000)	349554	50.0000	
$ 30 Dibromofluoromethane	113	4.103	4.102	(0.979)	277718	47.3517	47.35
$ 35 1,2-Dichloroethane-d4	65	4.478	4.477	(1.069)	309857	48.2661	48.26
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1043974	53.4126	53.41
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	339835	48.5898	48.58

01139938

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081922.D

Page 1

Date : 19-AUG-2022 17:57

Client ID: HS22080927-03

Instrument: voa6.i

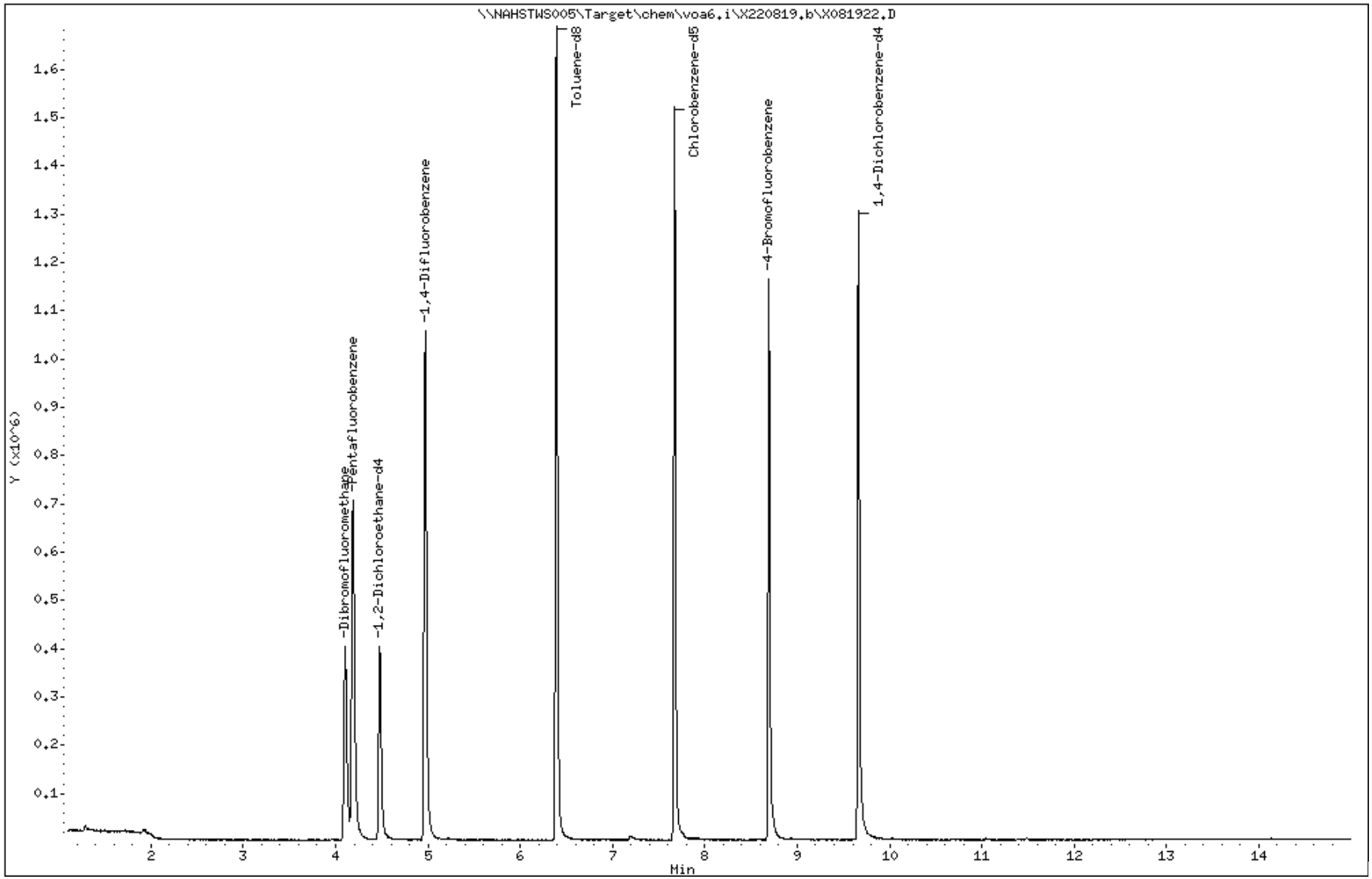
Sample Info: HS22080927-03;HS22080927-03;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081922.D
Inj Date : 19-AUG-2022 17:57
InstruID : voa6.i
LabSampID : HS22080927-03

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081923.D
Lab Smp Id: HS22080927-04 Client Smp ID: HS22080927-04
Inj Date : 19-AUG-2022 18:18
Operator : PC Inst ID: voa6.i
Smp Info : HS22080927-04;HS22080927-04;;;
Misc Info : HS22052000V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\8260W.m
Meth Date : 08-Sep-2022 12:27 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.185	4.189	(1.000)	622568	50.0000	
* 36 1,4-Difluorobenzene	114	4.968	4.968	(1.000)	881361	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	787718	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.666	9.662	(1.000)	349894	50.0000	
$ 30 Dibromofluoromethane	113	4.106	4.102	(0.981)	282574	48.0706	48.07
$ 35 1,2-Dichloroethane-d4	65	4.477	4.477	(1.070)	312791	48.6042	48.60
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1040276	52.9302	52.93
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	337472	47.9758	47.97

01139941

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081923.D

Page 1

Date : 19-AUG-2022 18:18

Client ID: HS22080927-04

Instrument: voa6.i

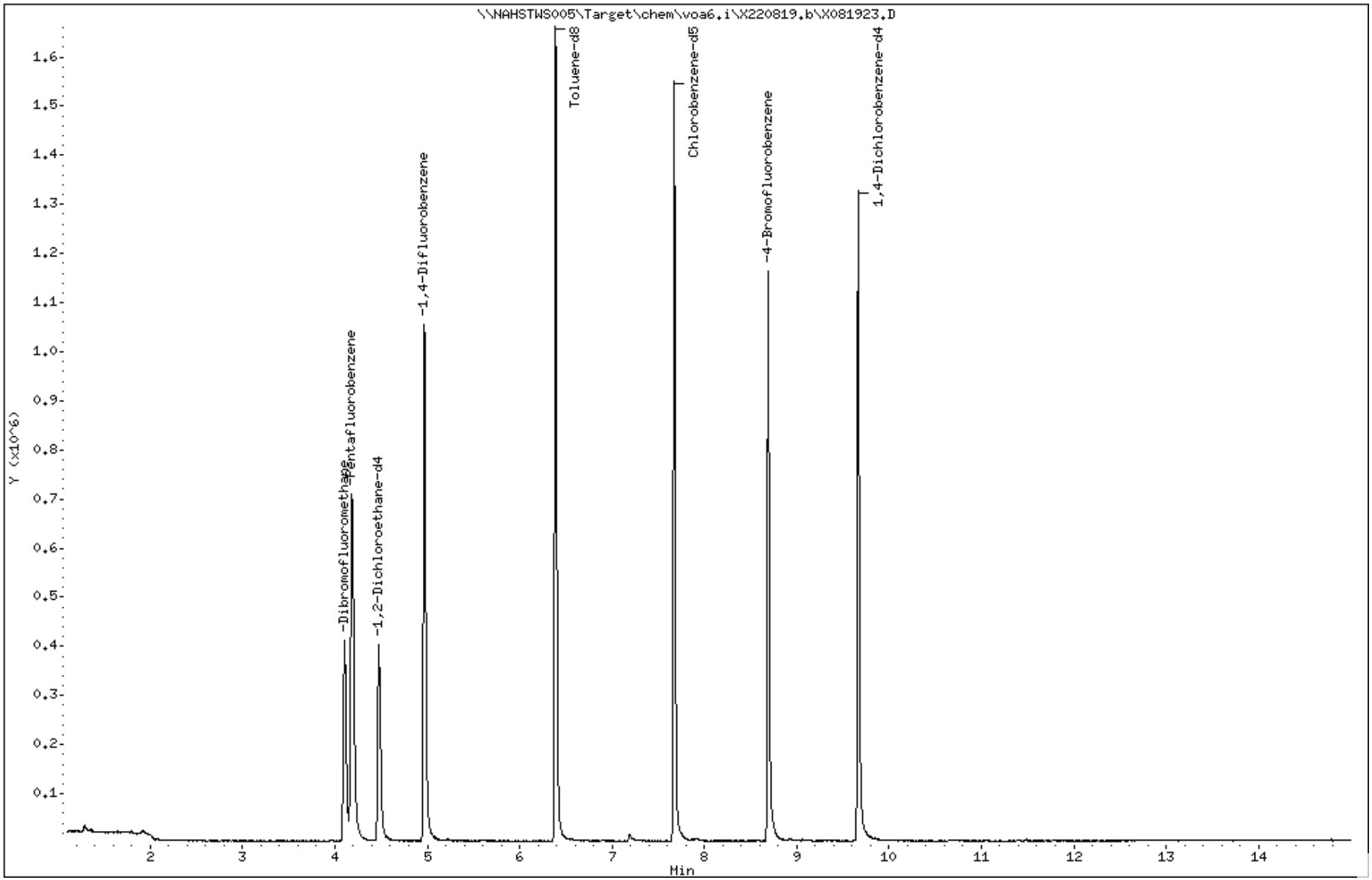
Sample Info: HS22080927-04;HS22080927-04;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081923.D
Inj Date : 19-AUG-2022 18:18
InstruID : voa6.i
LabSampID : HS22080927-04

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081924.D
Lab Smp Id: HS22080927-06 Client Smp ID: HS22080927-06
Inj Date : 19-AUG-2022 18:39
Operator : PC Inst ID: voa6.i
Smp Info : HS22080927-06;HS22080927-06;;;
Misc Info : HS22052000V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\8260W.m
Meth Date : 08-Sep-2022 12:27 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.185	4.189	(1.000)	631351	50.0000	
* 36 1,4-Difluorobenzene	114	4.968	4.968	(1.000)	892601	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	777677	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.665	9.662	(1.000)	337201	50.0000	
$ 30 Dibromofluoromethane	113	4.106	4.102	(0.981)	280491	47.0371	47.03
$ 35 1,2-Dichloroethane-d4	65	4.477	4.477	(1.070)	309126	47.3581	47.35
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1049179	54.0724	54.07
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	326410	46.9856	46.98

01139944

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081924.D

Page 1

Date : 19-AUG-2022 18:39

Client ID: HS22080927-06

Instrument: voa6.i

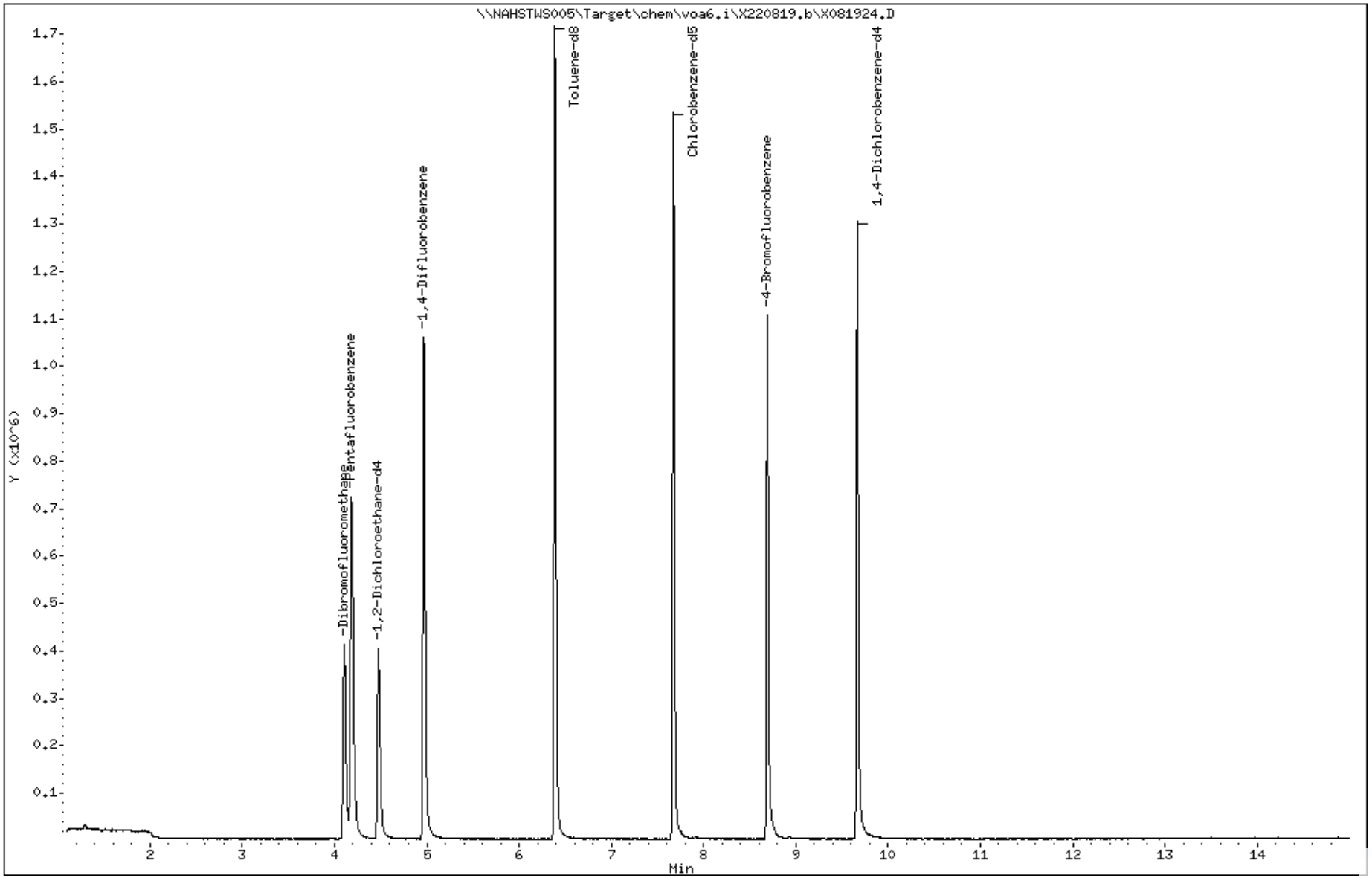
Sample Info: HS22080927-06;HS22080927-06;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081924.D
Inj Date : 19-AUG-2022 18:39
InstruID : voa6.i
LabSampID : HS22080927-06

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081925.D Page 1
Report Date: 08-Sep-2022 12:28

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081925.D
Lab Smp Id: HS22080927-07 Client Smp ID: HS22080927-07
Inj Date : 19-AUG-2022 19:00
Operator : PC Inst ID: voa6.i
Smp Info : HS22080927-07;HS22080927-07;;;
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\8260W.m
Meth Date : 08-Sep-2022 12:27 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.189	4.189	(1.000)	605564	50.0000	
* 36 1,4-Difluorobenzene	114	4.969	4.968	(1.000)	857598	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	754520	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.666	9.662	(1.000)	324363	50.0000	
$ 30 Dibromofluoromethane	113	4.106	4.102	(0.980)	274153	47.9458	47.94
$ 35 1,2-Dichloroethane-d4	65	4.478	4.477	(1.069)	305129	48.7459	48.74
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1009656	53.6325	53.63
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	328008	48.6942	48.69
38 Trichloroethene	130	5.212	5.208	(1.049)	11730	1.94856	1.94(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01139947

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081925.D

Page 1

Date : 19-AUG-2022 19:00

Client ID: HS22080927-07

Instrument: voa6.i

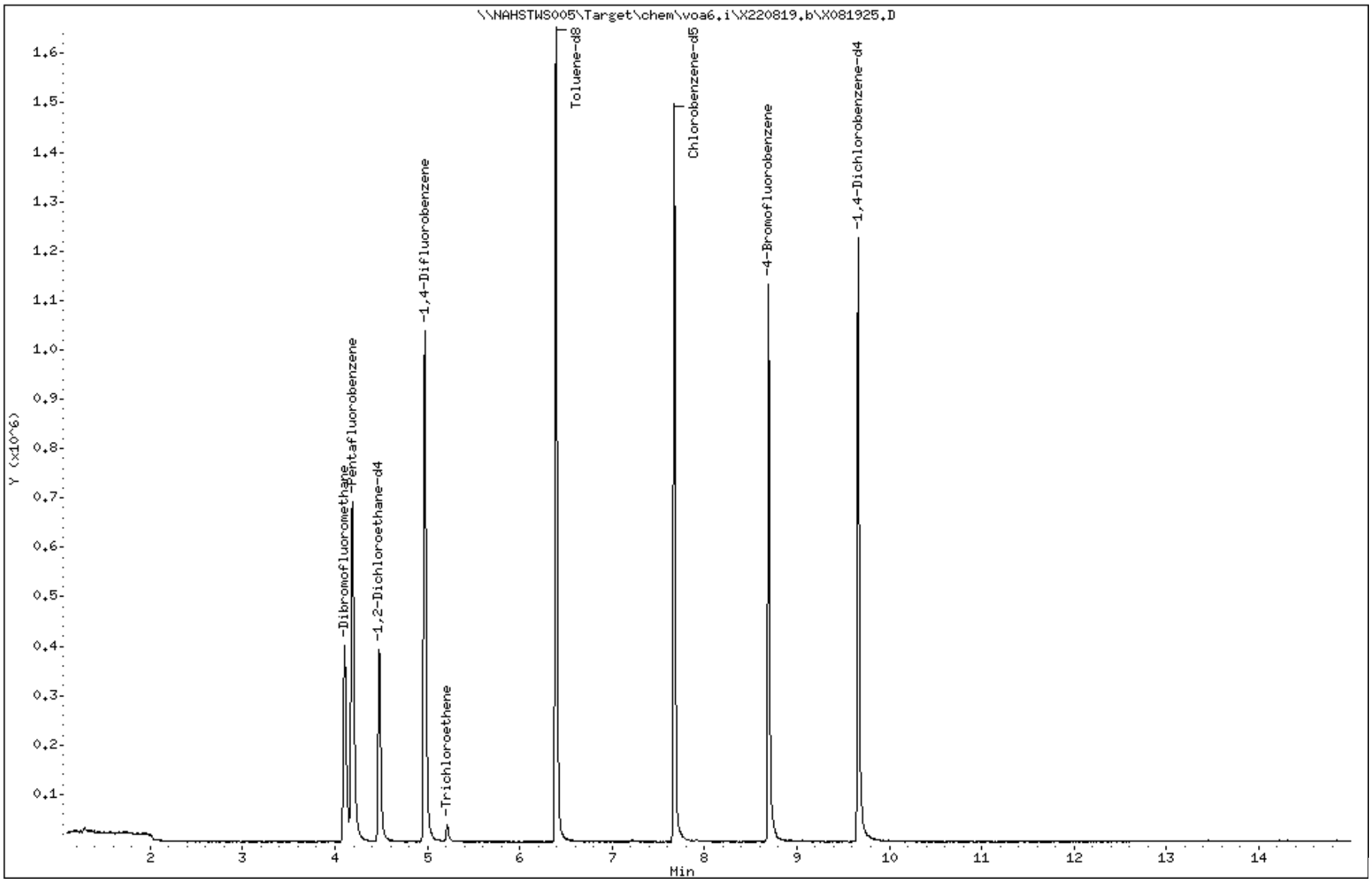
Sample Info: HS22080927-07;HS22080927-07;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081925.D Page 2

Date : 19-AUG-2022 19:00

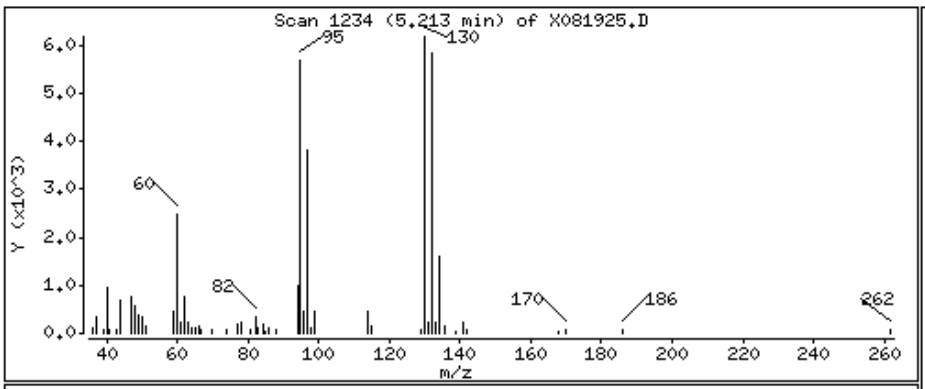
Client ID: HS22080927-07 Instrument: voa6.i

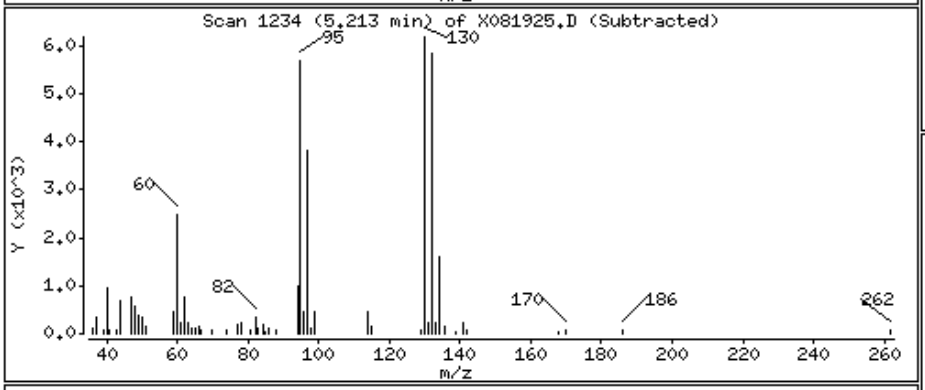
Sample Info: HS22080927-07;HS22080927-07;;;

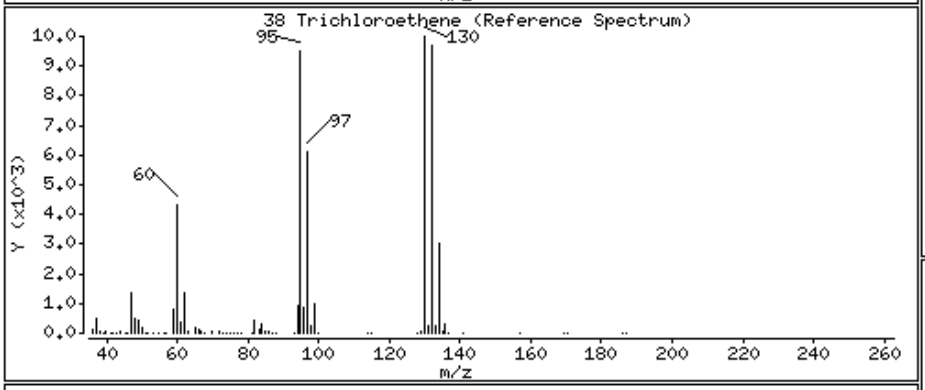
Purge Volume: 5.0 Operator: PC

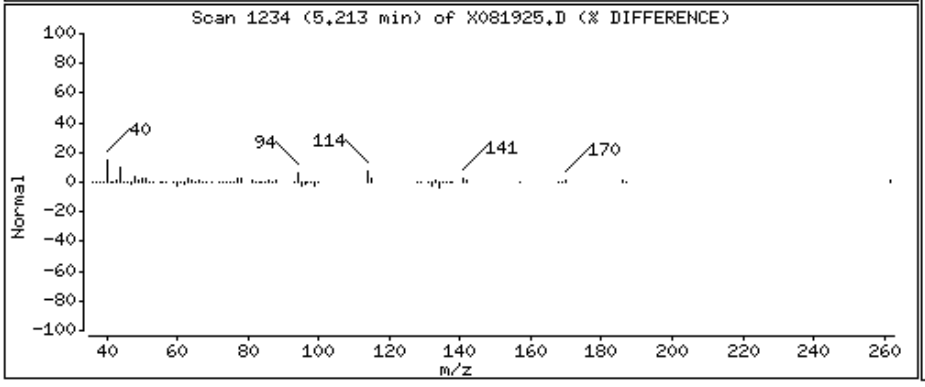
Column phase: DB624 Column diameter: 0.18

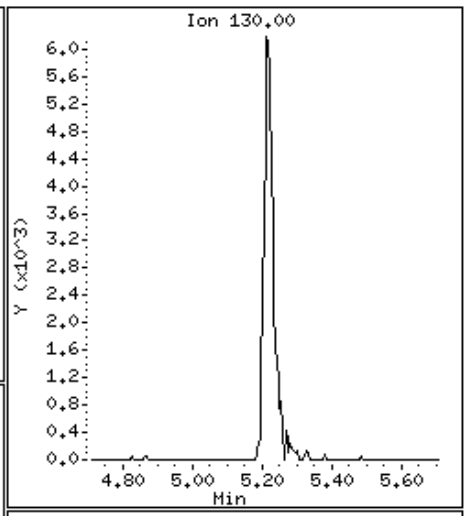
38 Trichloroethene Concentration: 1.94 ug/l

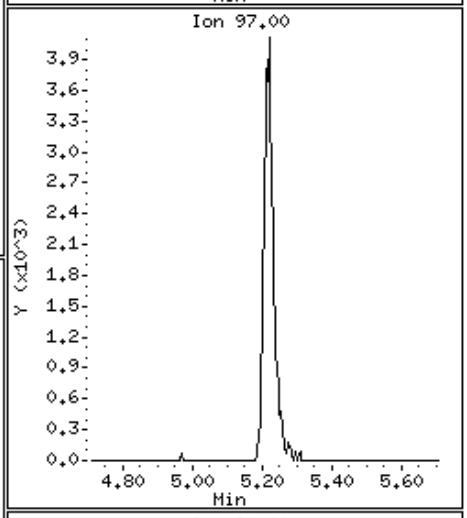


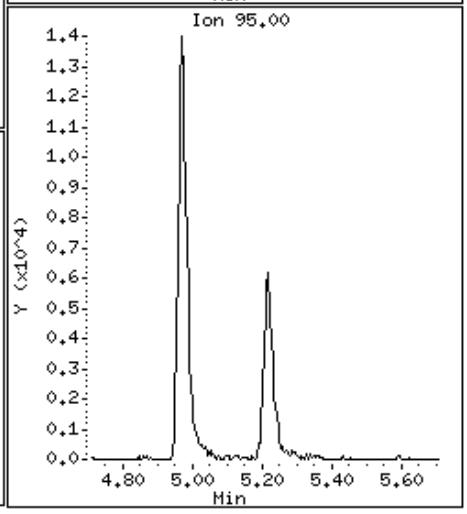












Data File : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081925.D
Inj Date : 19-AUG-2022 19:00
InstruID : voa6.i
LabSampID : HS22080927-07

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081926.D Page 1
Report Date: 08-Sep-2022 12:28

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081926.D
Lab Smp Id: HS22080927-08 Client Smp ID: HS22080927-08
Inj Date : 19-AUG-2022 19:21
Operator : PC Inst ID: voa6.i
Smp Info : HS22080927-08;HS22080927-08;;;
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\8260W.m
Meth Date : 08-Sep-2022 12:27 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.189	4.189	(1.000)	616223	50.0000	
* 36 1,4-Difluorobenzene	114	4.969	4.968	(1.000)	876243	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	768932	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.666	9.662	(1.000)	342747	50.0000	
$ 30 Dibromofluoromethane	113	4.106	4.102	(0.980)	275667	47.3680	47.36
$ 35 1,2-Dichloroethane-d4	65	4.477	4.477	(1.069)	305667	47.9821	47.98
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1026814	53.5216	53.52
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	328499	47.8388	47.83
38 Trichloroethene	130	5.216	5.208	(1.050)	3647	0.59294	0.59(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01139951

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081926.D

Date : 19-AUG-2022 19:21

Client ID: HS22080927-08

Instrument: voa6.i

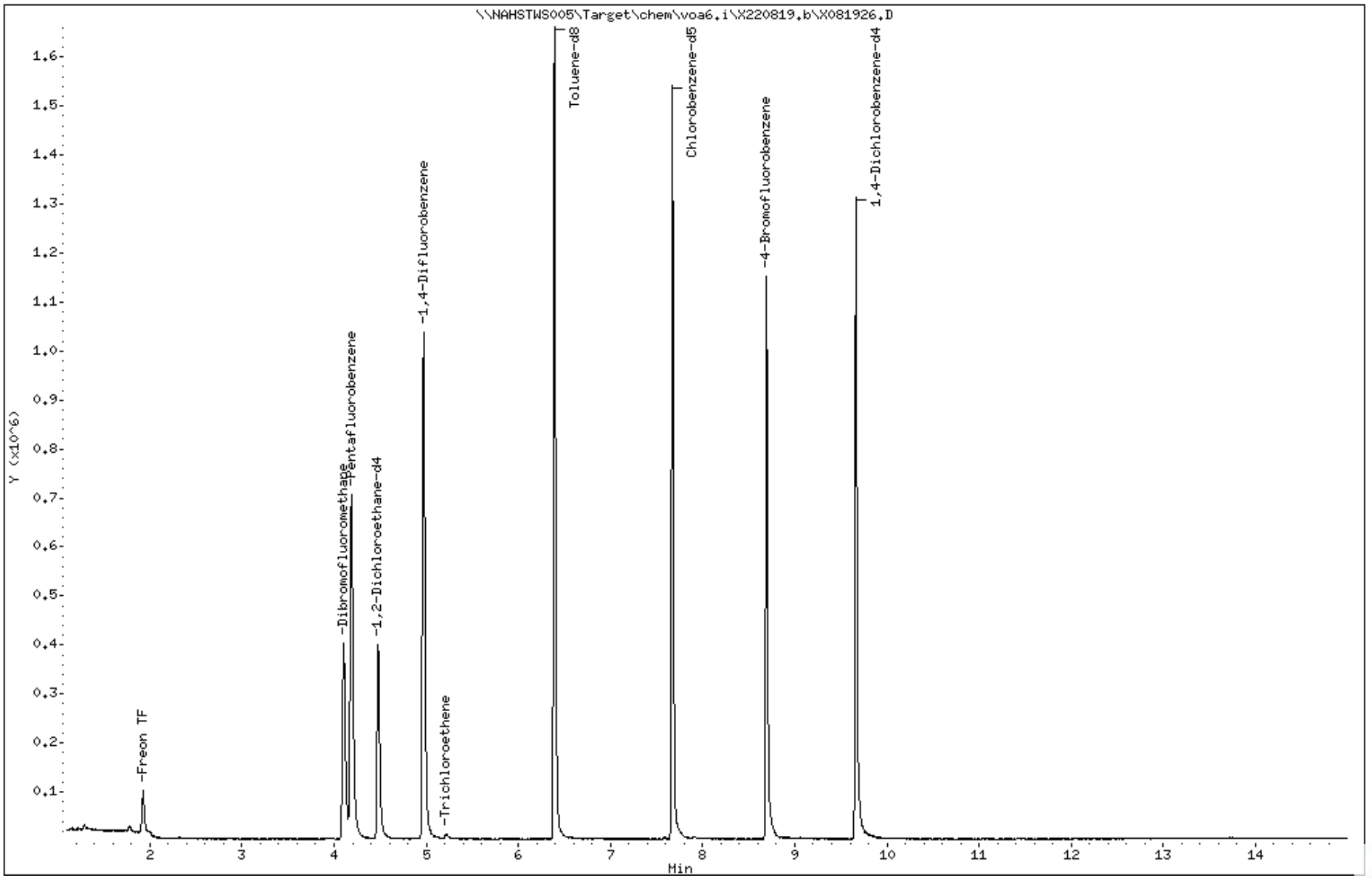
Sample Info: HS22080927-08;HS22080927-08;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081926.D Page 2

Date : 19-AUG-2022 19:21

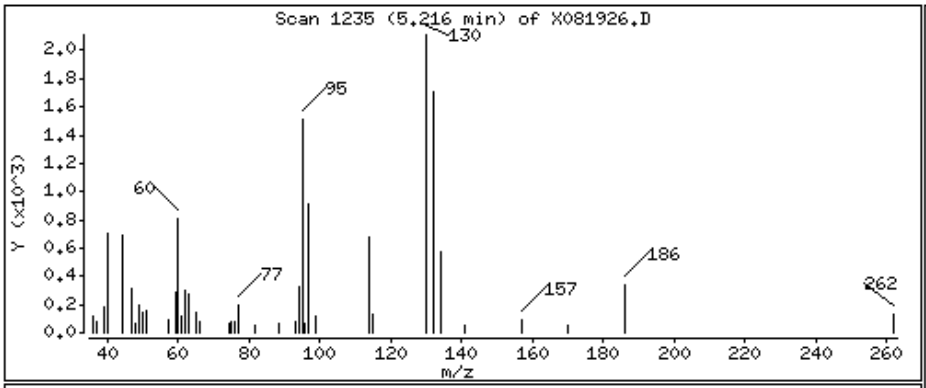
Client ID: HS22080927-08 Instrument: voa6.i

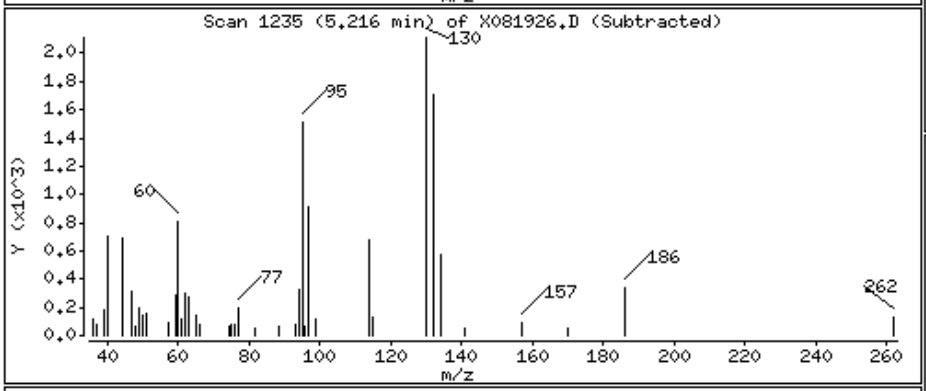
Sample Info: HS22080927-08;HS22080927-08;;;

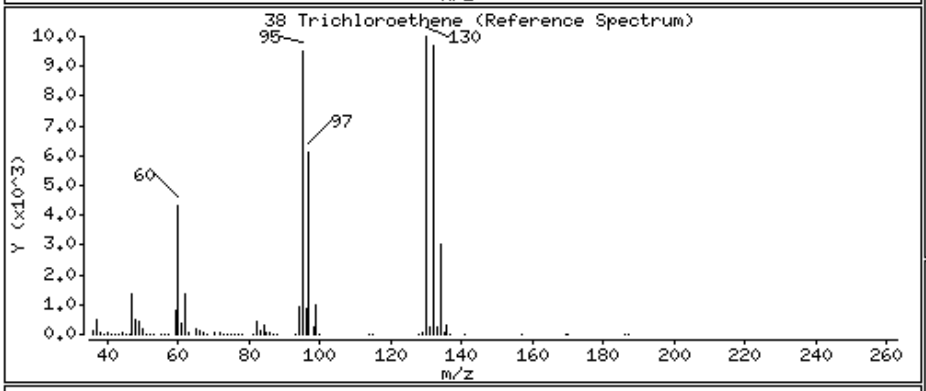
Purge Volume: 5.0 Operator: PC

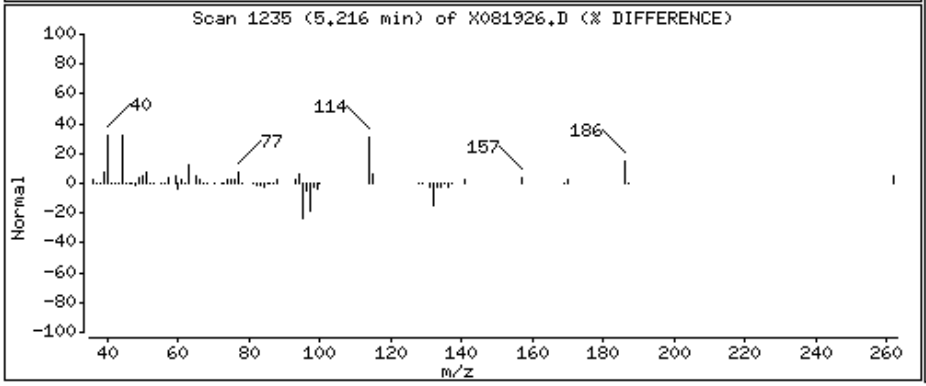
Column phase: DB624 Column diameter: 0.18

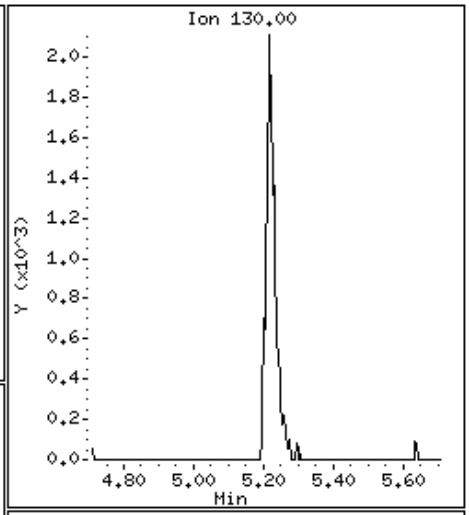
38 Trichloroethene Concentration: 0.59 ug/l

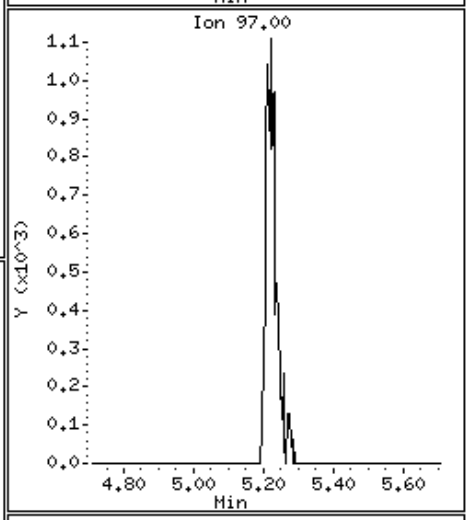


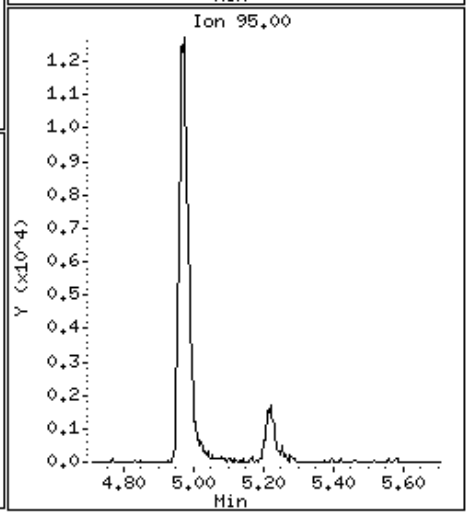












Data File : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081926.D
Inj Date : 19-AUG-2022 19:21
InstruID : voa6.i
LabSampID : HS22080927-08

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081927.D Page 1
Report Date: 08-Sep-2022 12:28

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081927.D
Lab Smp Id: HS22080927-09 Client Smp ID: HS22080927-09
Inj Date : 19-AUG-2022 19:42
Operator : PC Inst ID: voa6.i
Smp Info : HS22080927-09;HS22080927-09;;;
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\8260W.m
Meth Date : 08-Sep-2022 12:27 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.189	4.189	(1.000)	614463	50.0000	
* 36 1,4-Difluorobenzene	114	4.969	4.968	(1.000)	877707	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	775712	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.666	9.662	(1.000)	340934	50.0000	
$ 30 Dibromofluoromethane	113	4.106	4.102	(0.980)	275081	47.4032	47.40
$ 35 1,2-Dichloroethane-d4	65	4.477	4.477	(1.069)	302156	47.5640	47.56
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1029976	53.2172	53.21
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	327974	47.3364	47.33

01139955

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081927.D

Page 1

Date : 19-AUG-2022 19:42

Client ID: HS22080927-09

Instrument: voa6.i

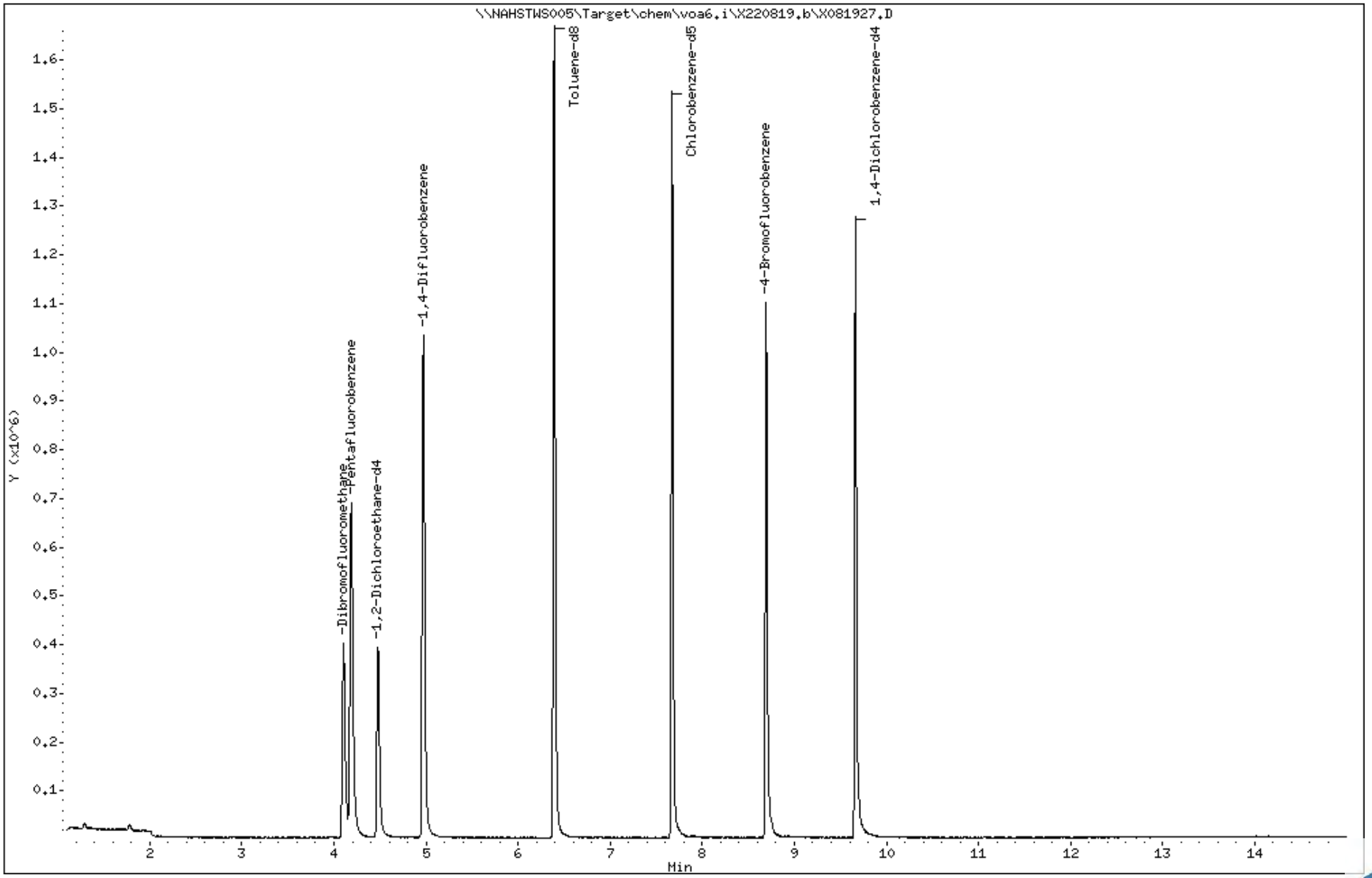
Sample Info: HS22080927-09;HS22080927-09;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081927.D
Inj Date : 19-AUG-2022 19:42
InstruID : voa6.i
LabSampID : HS22080927-09

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081928.D Page 1
Report Date: 08-Sep-2022 12:28

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081928.D
Lab Smp Id: HS22080927-10 Client Smp ID: HS22080927-10
Inj Date : 19-AUG-2022 20:03
Operator : PC Inst ID: voa6.i
Smp Info : HS22080927-10;HS22080927-10;;;
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\8260W.m
Meth Date : 08-Sep-2022 12:27 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.185	4.189	(1.000)	602859	50.0000	
* 36 1,4-Difluorobenzene	114	4.969	4.968	(1.000)	866232	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	764626	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.666	9.662	(1.000)	327460	50.0000	
$ 30 Dibromofluoromethane	113	4.103	4.102	(0.980)	272508	47.8708	47.87
$ 35 1,2-Dichloroethane-d4	65	4.477	4.477	(1.070)	303894	48.7666	48.76
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1014040	53.1535	53.15
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	321340	47.0464	47.04

01139958

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081928.D

Page 1

Date : 19-AUG-2022 20:03

Client ID: HS22080927-10

Instrument: voa6.i

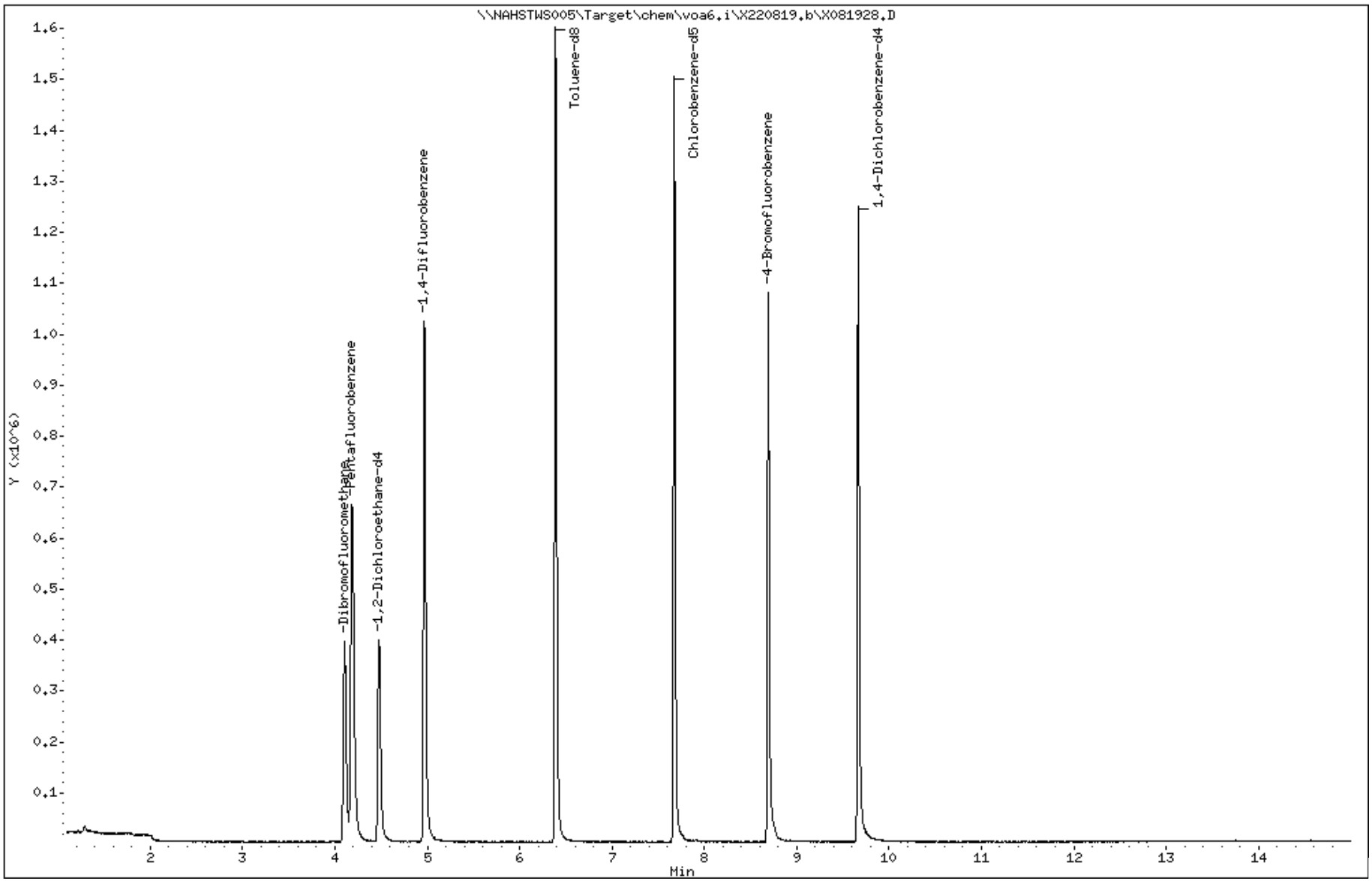
Sample Info: HS22080927-10;HS22080927-10;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081928.D
Inj Date : 19-AUG-2022 20:03
InstruID : voa6.i
LabSampID : HS22080927-10

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081929.D Page 1
Report Date: 08-Sep-2022 12:28

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081929.D
Lab Smp Id: HS22080927-05 Client Smp ID: HS22080927-05
Inj Date : 19-AUG-2022 20:24
Operator : PC Inst ID: voa6.i
Smp Info : HS22080927-05;HS22080927-05;;;
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\8260W.m
Meth Date : 08-Sep-2022 12:27 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 28
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.185	4.189	(1.000)	613379	50.0000	
* 36 1,4-Difluorobenzene	114	4.969	4.968	(1.000)	877882	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	768969	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.666	9.662	(1.000)	349420	50.0000	
$ 30 Dibromofluoromethane	113	4.103	4.102	(0.980)	276583	47.7516	47.75
$ 35 1,2-Dichloroethane-d4	65	4.478	4.477	(1.070)	317508	50.0862	50.08
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1026896	53.5233	53.52
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	334673	48.7511	48.75
22 1,1-Dichloroethane	63	2.933	2.929	(0.701)	6374	0.67500	0.67(a)
11 1,1-Dichloroethene	96	1.925	1.921	(0.460)	19269	3.76329	3.76(a)
33 1,2-Dichloroethane	62	4.564	4.560	(0.919)	152930	19.8632	19.86
27 cis-1,2-Dichloroethene	96	3.537	3.533	(0.845)	74171	12.1629	12.16
38 Trichloroethene	130	5.209	5.208	(1.048)	2060008	334.296	334.29(A)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount

exceeded maximum amount.

01139962

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081929.D

Date : 19-AUG-2022 20:24

Client ID: HS22080927-05

Instrument: voa6.i

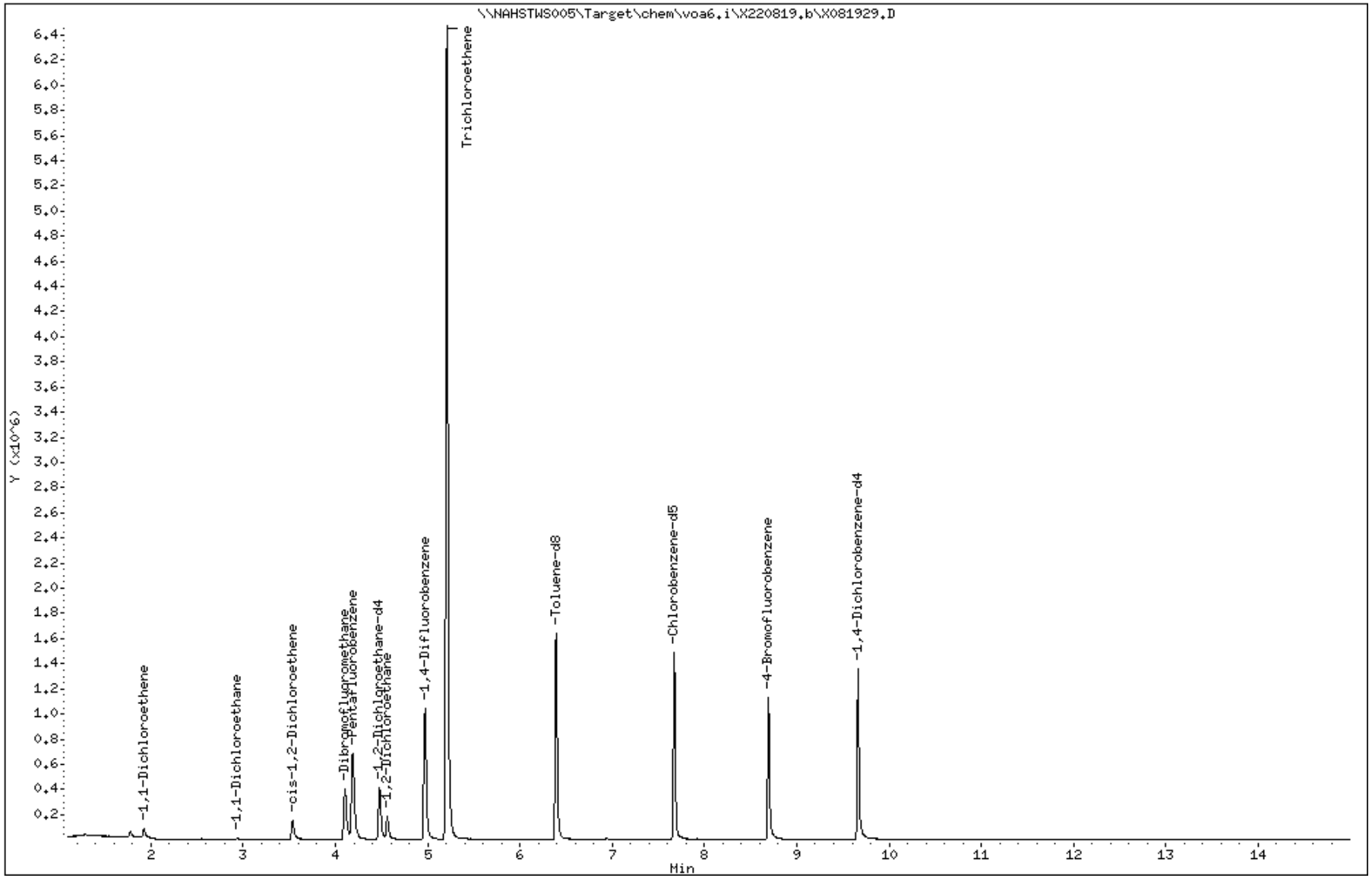
Sample Info: HS22080927-05;HS22080927-05;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081929.D

Date : 19-AUG-2022 20:24

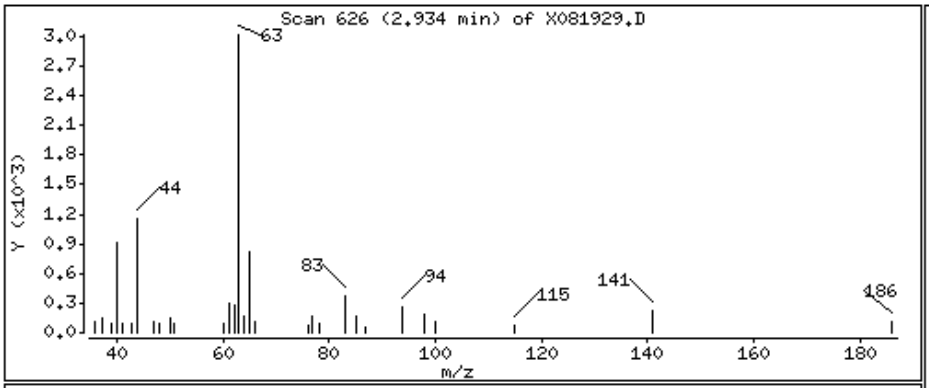
Client ID: HS22080927-05 Instrument: voa6.i

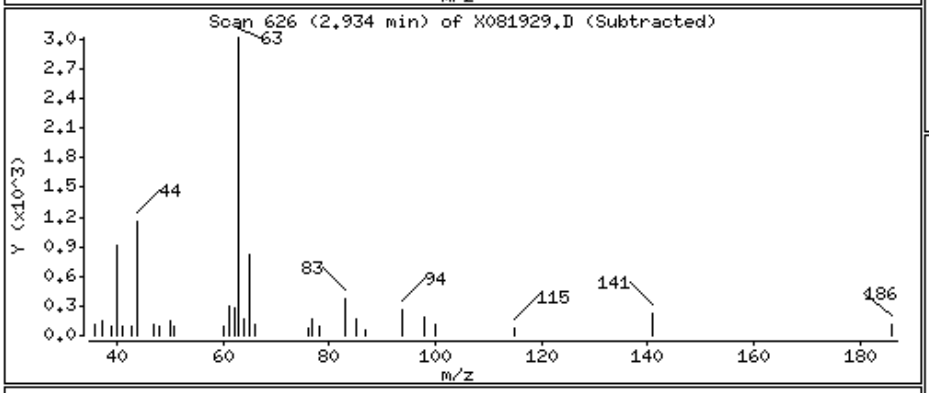
Sample Info: HS22080927-05;HS22080927-05;;;

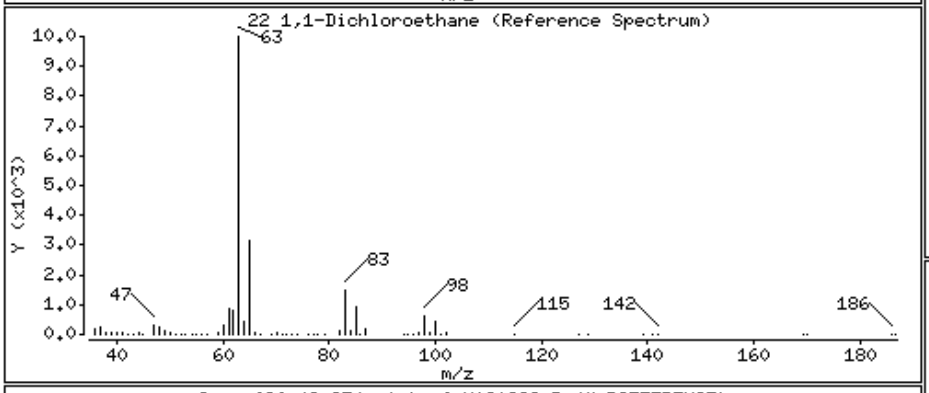
Purge Volume: 5.0 Operator: PC

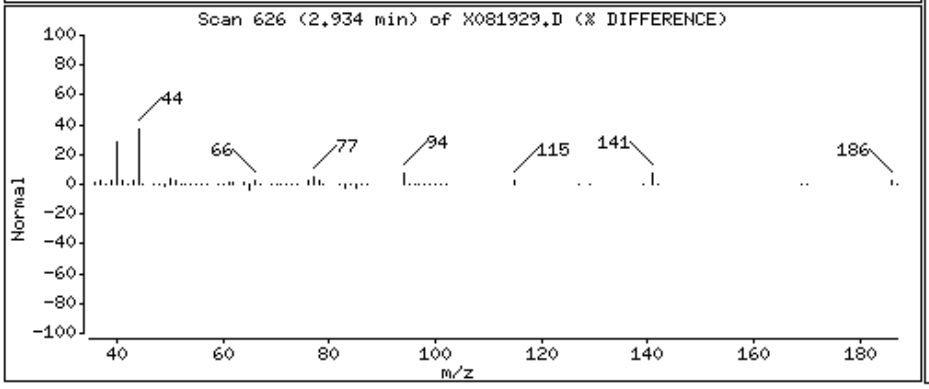
Column phase: DB624 Column diameter: 0.18

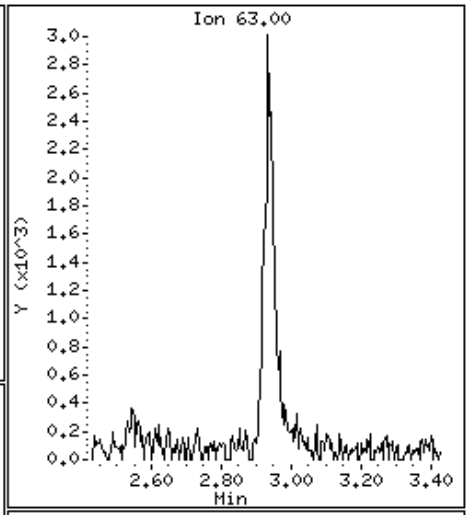
22 1,1-Dichloroethane Concentration: 0.67 ug/l

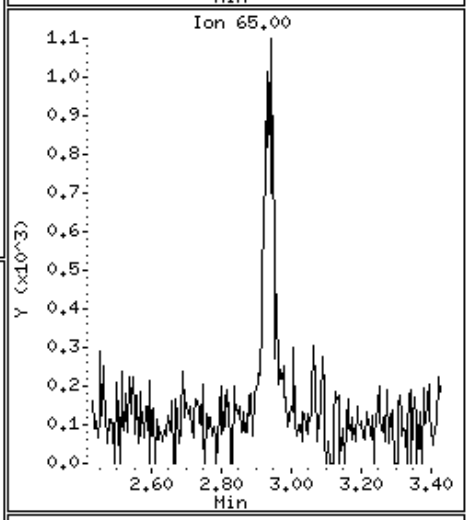


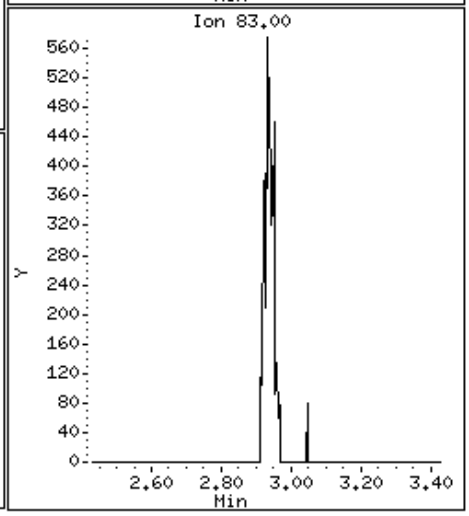












Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081929.D Page 3

Date : 19-AUG-2022 20:24

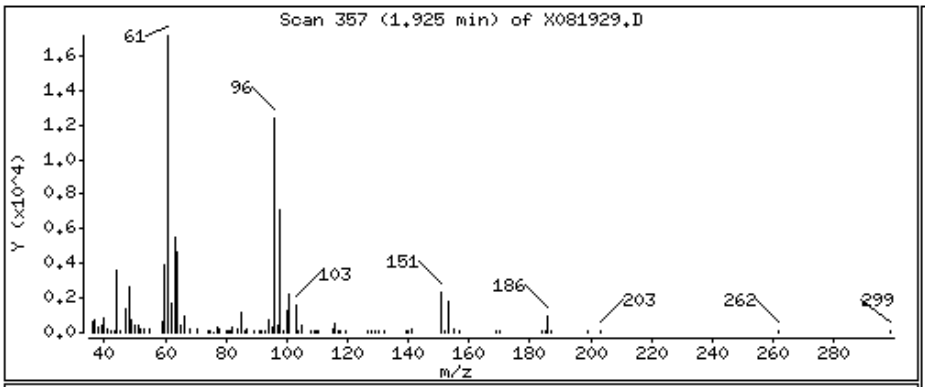
Client ID: HS22080927-05 Instrument: voa6.i

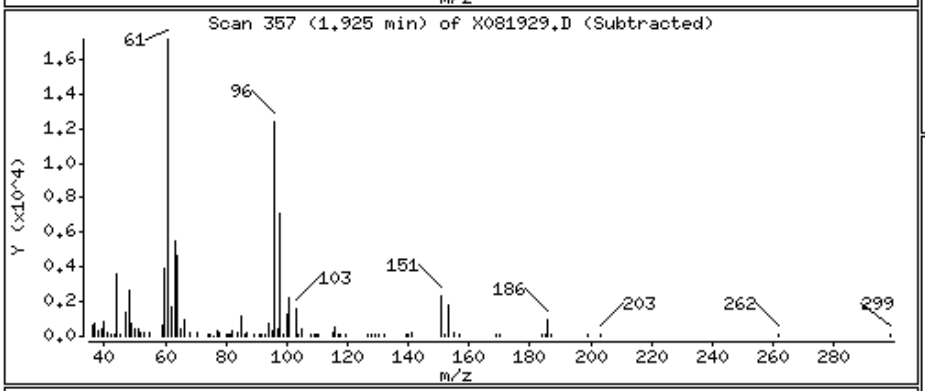
Sample Info: HS22080927-05;HS22080927-05;;;

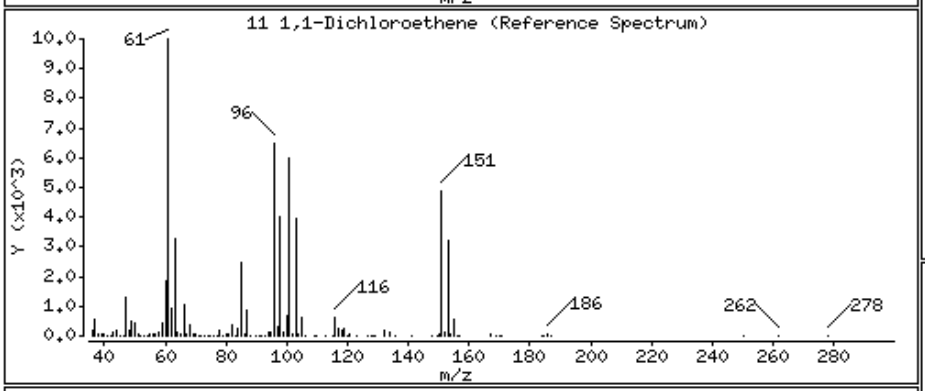
Purge Volume: 5.0 Operator: PC

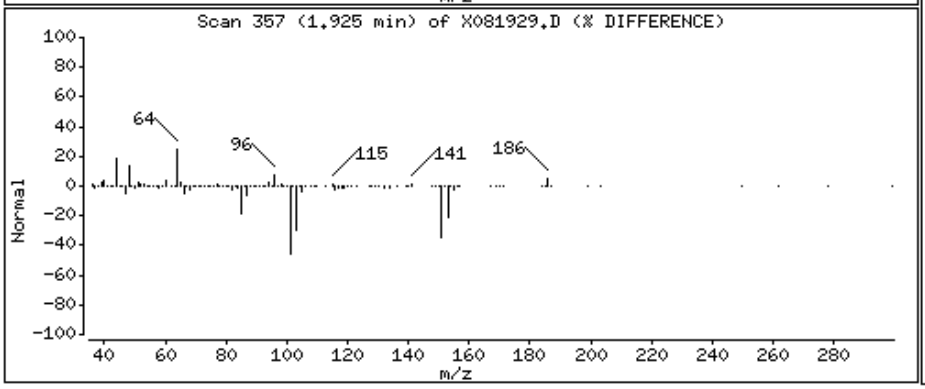
Column phase: DB624 Column diameter: 0.18

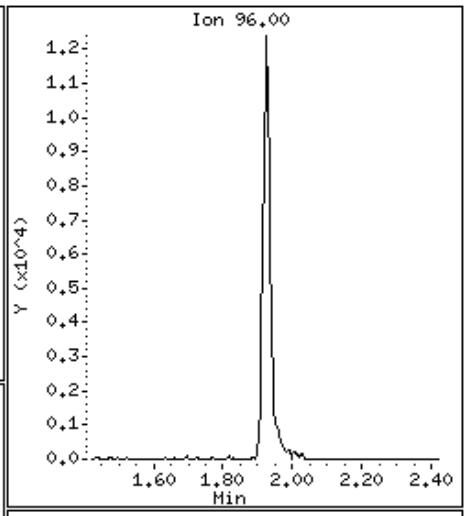
11 1,1-Dichloroethene Concentration: 3.76 ug/l

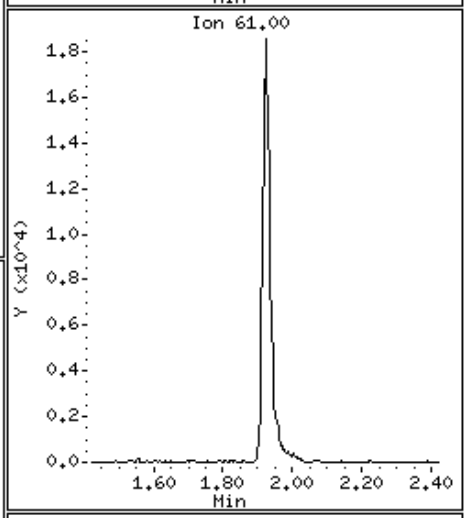


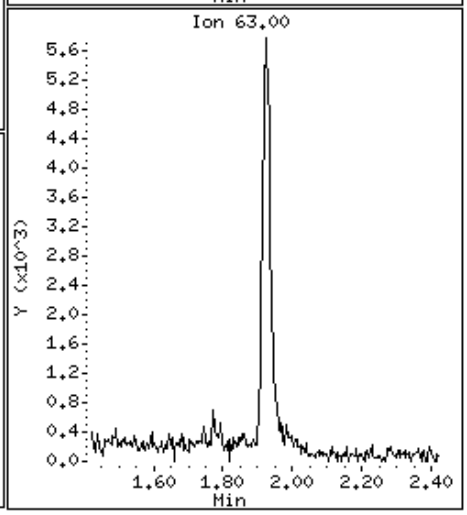












Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081929.D

Date : 19-AUG-2022 20:24

Client ID: HS22080927-05

Instrument: voa6.i

Sample Info: HS22080927-05;HS22080927-05;;;

Purge Volume: 5.0

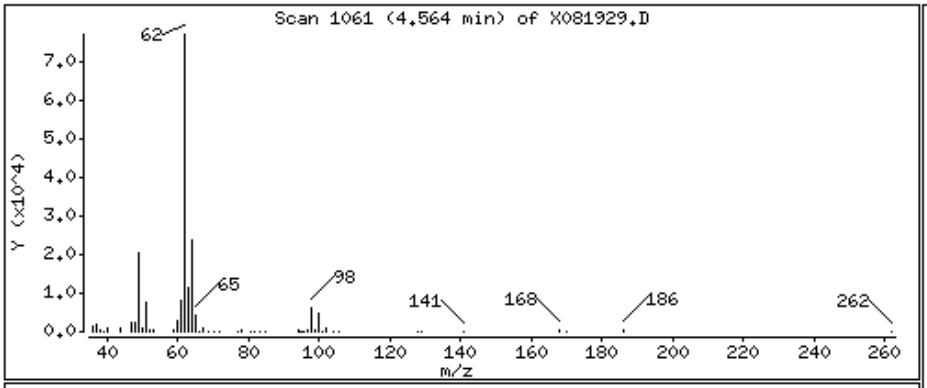
Operator: PC

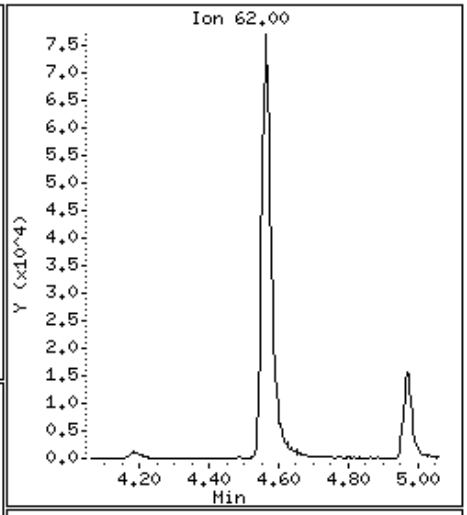
Column phase: DB624

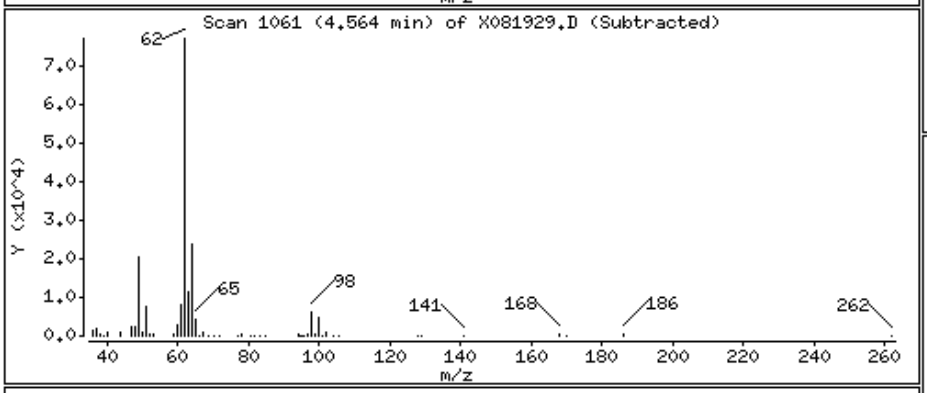
Column diameter: 0.18

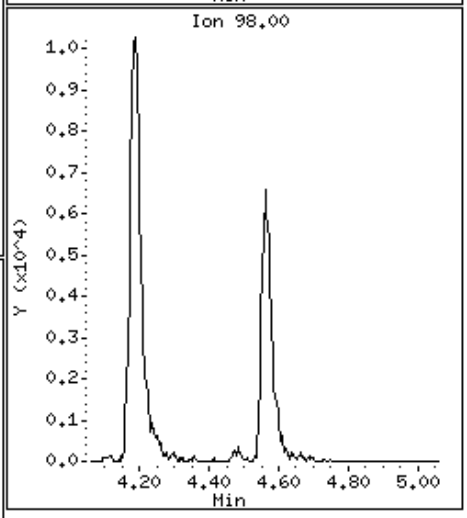
33 1,2-Dichloroethane

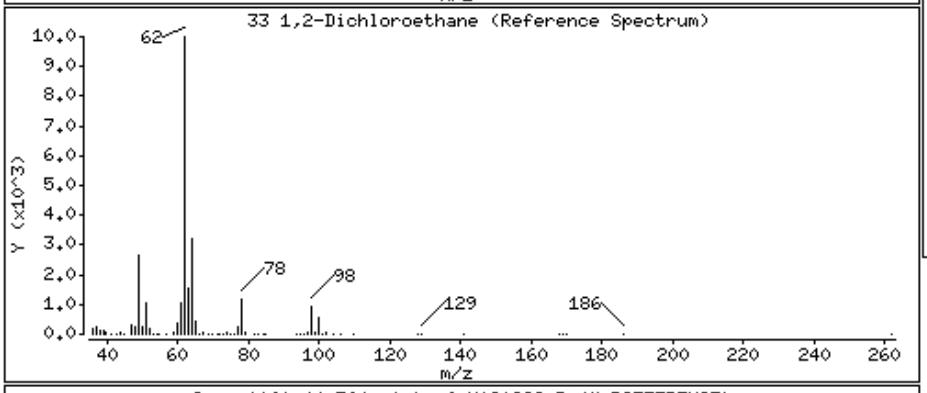
Concentration: 19.86 ug/l

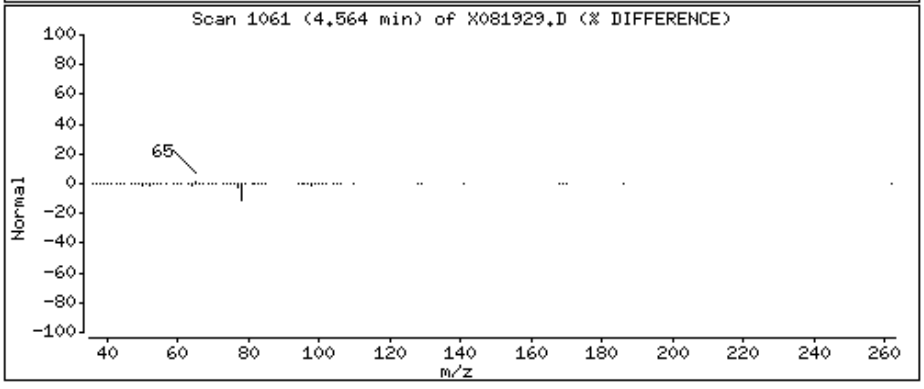












Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081929.D Page 5

Date : 19-AUG-2022 20:24

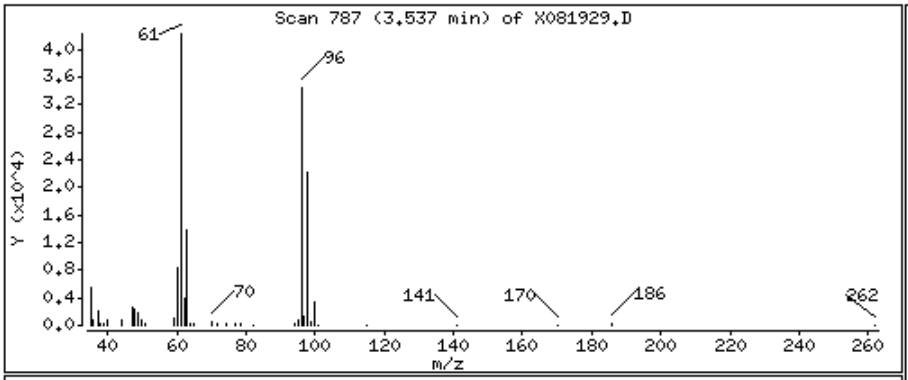
Client ID: HS22080927-05 Instrument: voa6.i

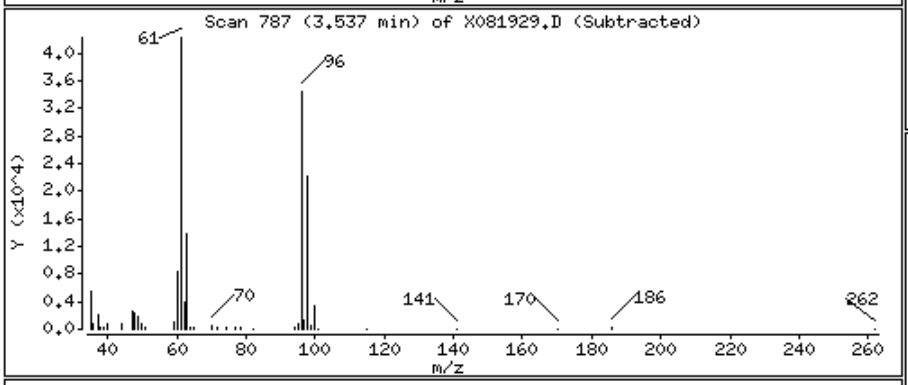
Sample Info: HS22080927-05;HS22080927-05;;;

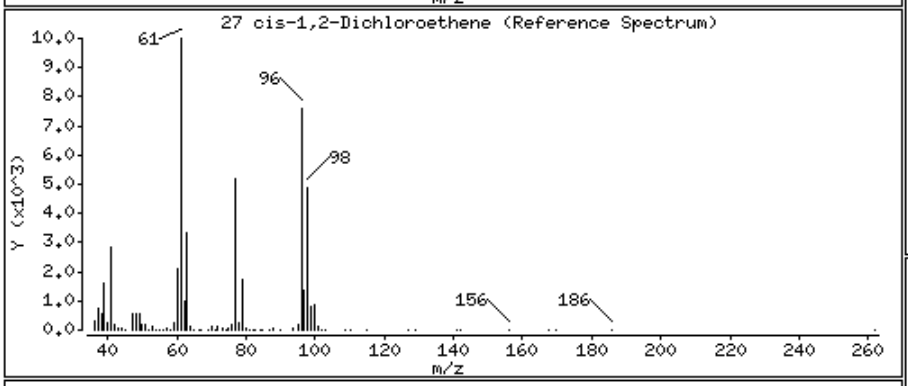
Purge Volume: 5.0 Operator: PC

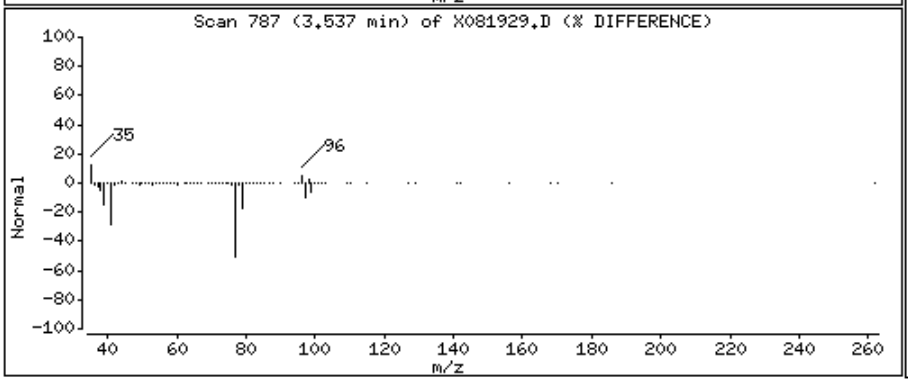
Column phase: DB624 Column diameter: 0.18

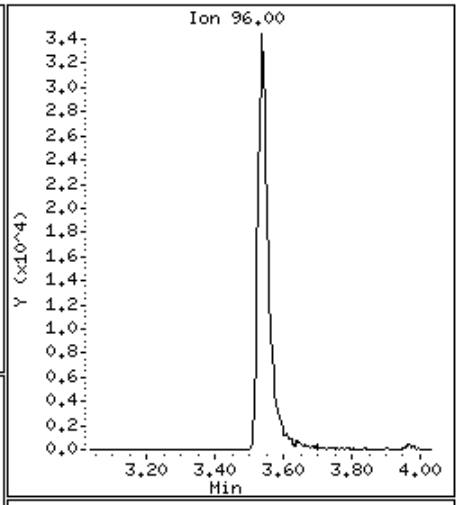
27 cis-1,2-Dichloroethene Concentration: 12.16 ug/l

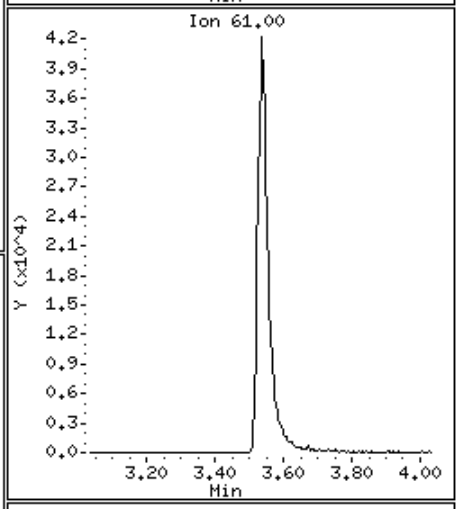


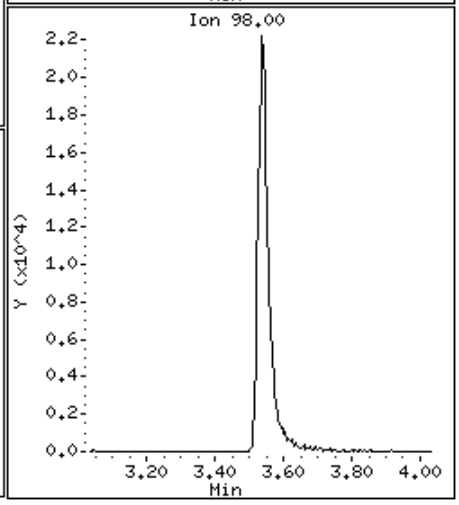












Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081929.D Page 6

Date : 19-AUG-2022 20:24

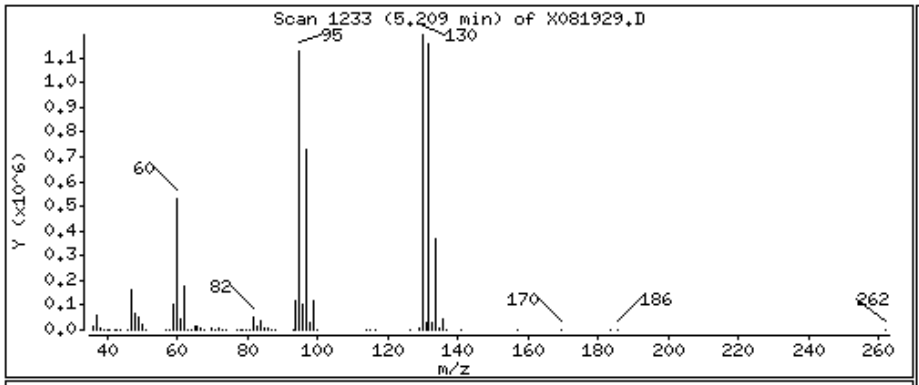
Client ID: HS22080927-05 Instrument: voa6.i

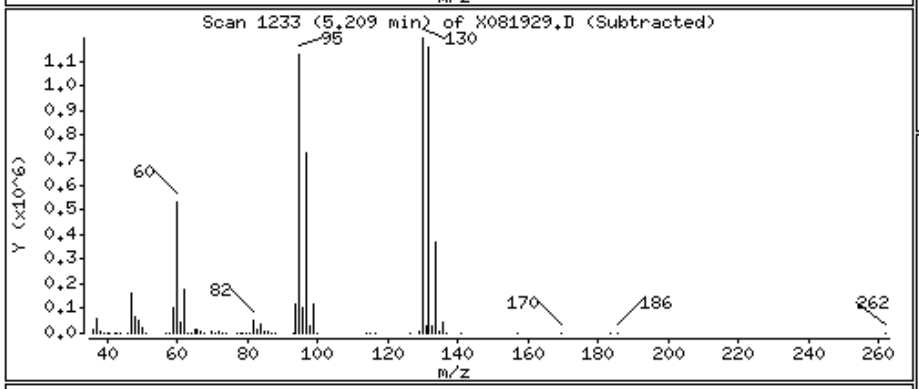
Sample Info: HS22080927-05;HS22080927-05;;;

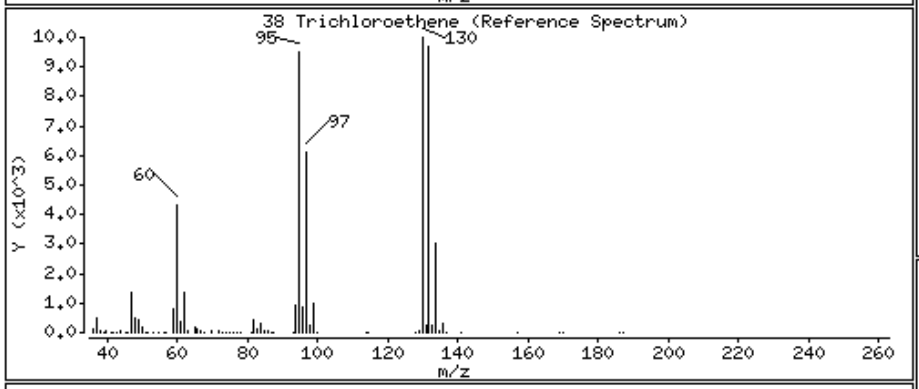
Purge Volume: 5.0 Operator: PC

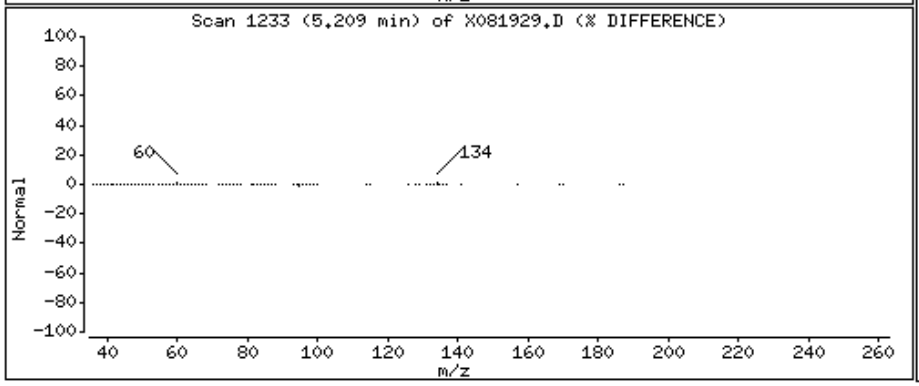
Column phase: DB624 Column diameter: 0.18

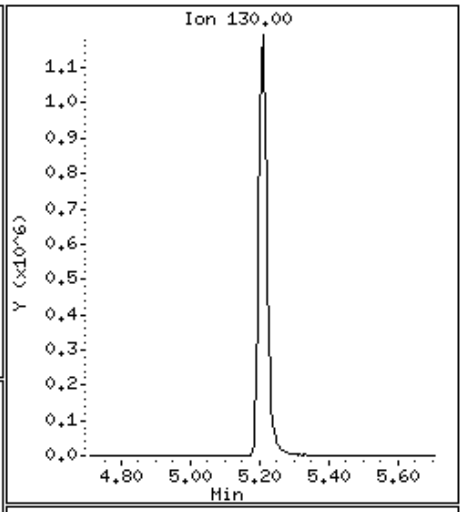
38 Trichloroethene Concentration: 334.29 ug/l

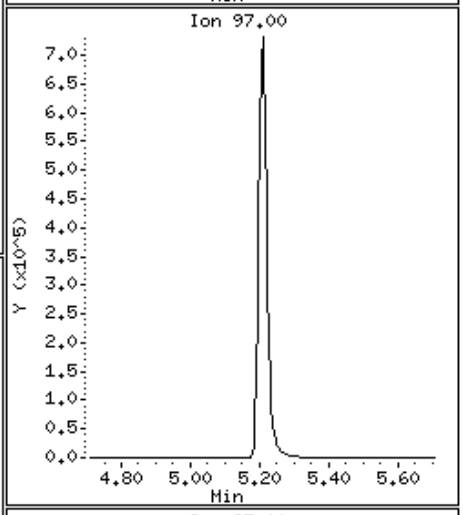


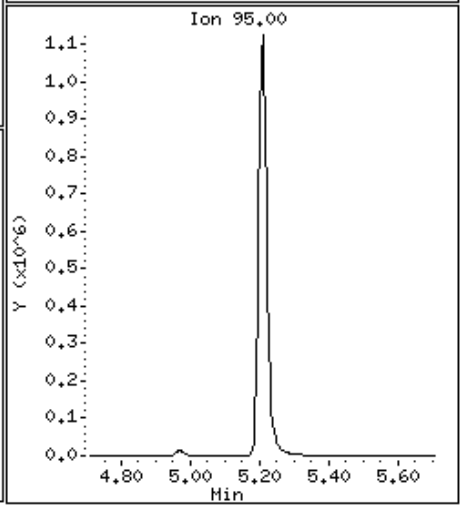












Data File : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081929.D
Inj Date : 19-AUG-2022 20:24
InstruID : voa6.i
LabSampID : HS22080927-05

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081931.D Page 1
Report Date: 08-Sep-2022 12:28

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081931.D
Lab Smp Id: CCV-END Client Smp ID: CCV-END
Inj Date : 19-AUG-2022 21:06
Operator : PC Inst ID: voa6.i
Smp Info : CCV-END;CCV-END;2;;
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\8260W.m
Meth Date : 08-Sep-2022 12:28 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 30 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

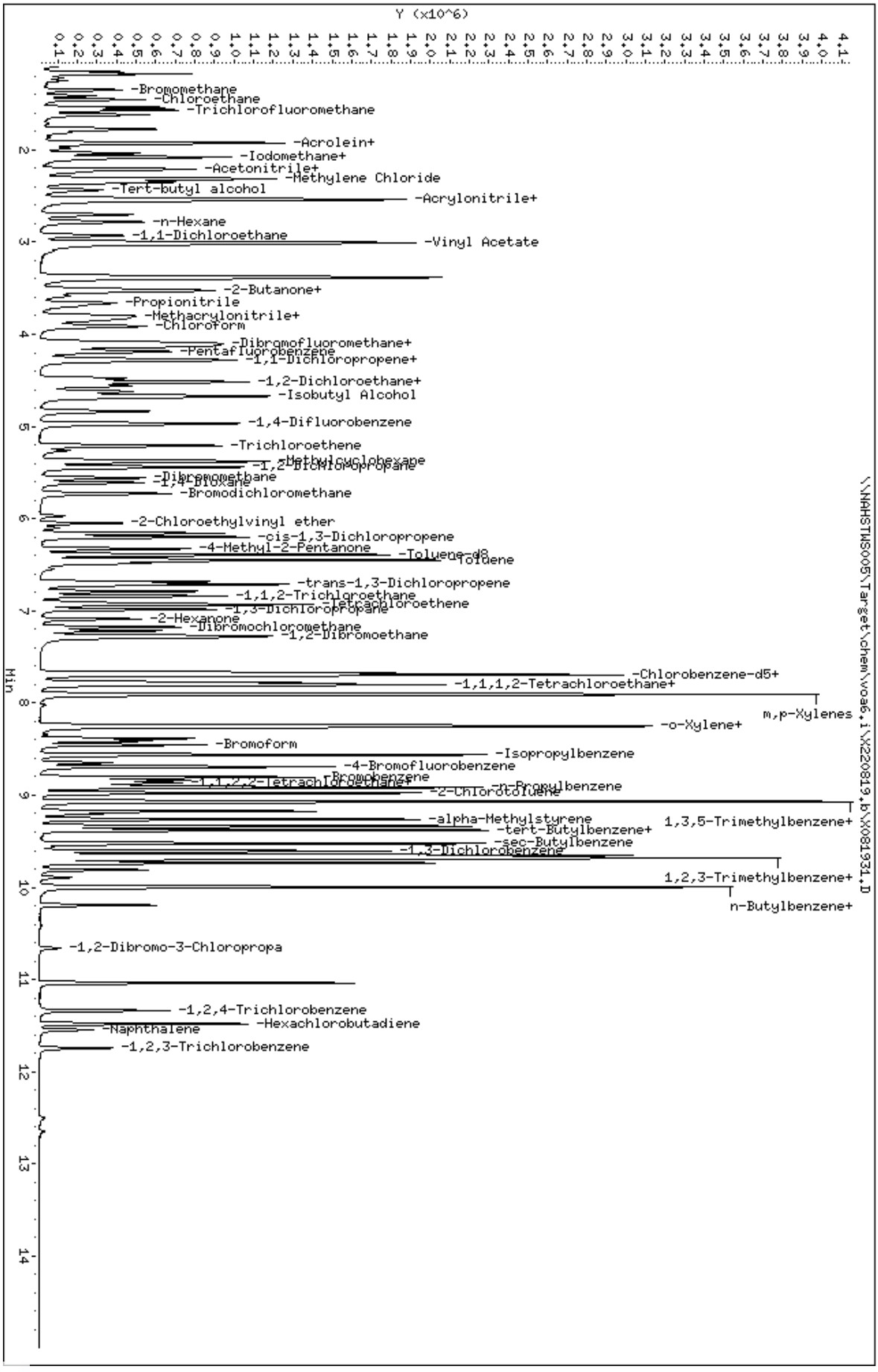
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.185	4.185	(1.000)	566958	50.0000	
* 36 1,4-Difluorobenzene	114	4.972	4.972	(1.000)	863314	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	814831	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.666	9.666	(1.000)	416707	50.0000	
$ 30 Dibromofluoromethane	113	4.106	4.106	(0.981)	295265	50.0000	55.26
$ 35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.069)	326761	50.0000	55.80
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1037850	50.0000	51.04
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	386793	50.0000	53.24
60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	298403	50.0000	52.12
31 1,1,1-Trichloroethane	97	4.091	4.091	(0.978)	413897	50.0000	51.46
68 1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	292658	50.0000	50.00
53 1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	208693	50.0000	49.81
22 1,1-Dichloroethane	63	2.929	2.929	(0.700)	414710	50.0000	47.51
11 1,1-Dichloroethene	96	1.925	1.925	(0.460)	215286	50.0000	45.48
32 1,1-Dichloropropene	75	4.282	4.282	(0.861)	352797	50.0000	50.63
93 1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	108262	50.0000	49.97
71 1,2,3-Trichloropropane	75	8.867	8.867	(0.917)	236769	50.0000	52.47(M)
90 1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	195827	50.0000	51.59
79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	1033308	50.0000	51.69
89 1,2-Dibromo-3-Chloropropane	155	10.659	10.659	(1.103)	23050	50.0000	52.08

57 1,2-Dibromoethane	107	7.263	7.263 (0.947)	265796	50.0000	50.03
88 1,2-Dichlorobenzene	146	9.995	9.995 (1.034)	538024	50.0000	51.59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
33	1,2-Dichloroethane	62	4.560	4.560	(0.917)	371016	50.0000	49.00
42	1,2-Dichloropropane	63	5.437	5.437	(1.093)	257209	50.0000	48.40
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	1048380	50.0000	51.79
83	1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	592081	50.0000	51.21
54	1,3-Dichloropropane	76	6.985	6.985	(0.911)	422831	50.0000	49.61
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	613018	50.0000	49.94
26	2,2-Dichloropropane	77	3.518	3.518	(0.841)	375184	50.0000	48.39
24	2-Butanone	43	3.585	3.585	(0.857)	157683	100.000	110.86
76	2-Chlorotoluene	91	8.976	8.976	(0.929)	869738	50.0000	48.69
52	2-Hexanone	43	7.090	7.090	(0.924)	293841	100.000	114.68
77	4-Chlorotoluene	91	9.070	9.070	(0.938)	1004174	50.0000	50.36
82	p-Isopropyltoluene	119	9.651	9.651	(0.998)	1092044	50.0000	53.72
45	4-Methyl-2-Pentanone	43	6.325	6.325	(0.825)	439452	100.000	110.68
10	Acetone	43	1.981	1.981	(0.473)	115100	100.000	96.18
37	Benzene	78	4.515	4.515	(0.908)	981519	50.0000	47.97
74	Bromobenzene	156	8.807	8.807	(0.911)	352352	50.0000	49.51
29	Bromochloromethane	128	3.799	3.799	(0.908)	148411	50.0000	46.42
39	Bromodichloromethane	83	5.729	5.729	(1.152)	366716	50.0000	50.29
66	Bromoform	173	8.413	8.413	(1.097)	195805	50.0000	49.57
6	Bromomethane	94	1.347	1.347	(0.322)	190009	50.0000	49.03
19	Carbon Disulfide	76	2.078	2.078	(0.497)	1157428	100.000	92.37
34	Carbon Tetrachloride	117	4.267	4.267	(0.858)	358869	50.0000	48.19
59	Chlorobenzene	112	7.698	7.698	(1.003)	773052	50.0000	50.03
7	Chloroethane	64	1.411	1.411	(0.337)	171291	50.0000	47.10
28	Chloroform	83	3.911	3.911	(0.935)	479719	50.0000	50.16
3	Chloromethane	50	1.085	1.085	(0.259)	243367	50.0000	46.36
27	cis-1,2-Dichloroethene	96	3.533	3.533	(0.844)	279161	50.0000	49.52
46	cis-1,3-Dichloropropene	75	6.157	6.157	(1.238)	443134	50.0000	49.47
55	Dibromochloromethane	129	7.176	7.176	(0.936)	305619	50.0000	50.53
44	Dibromomethane	93	5.553	5.553	(1.117)	174914	50.0000	49.06
2	Dichlorodifluoromethane	85	0.980	0.980	(0.234)	249897	50.0000	46.25
61	Ethylbenzene	106	7.802	7.802	(1.017)	401953	50.0000	51.50
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	178691	50.0000	50.97
67	Isopropylbenzene	105	8.563	8.563	(1.116)	1269744	50.0000	54.10
62	m,p-Xylenes	106	7.907	7.907	(1.031)	1011958	100.000	104.24
17	Methylene Chloride	84	2.311	2.311	(0.552)	257961	50.0000	49.47
87	n-Butylbenzene	91	9.995	9.995	(1.034)	937747	50.0000	55.52
73	n-Propylbenzene	91	8.912	8.912	(0.922)	1465029	50.0000	53.29
92	Naphthalene	128	11.544	11.544	(1.194)	203391	50.0000	47.90
63	o-Xylene	106	8.245	8.245	(1.075)	484841	50.0000	51.37
81	sec-Butylbenzene	105	9.523	9.523	(0.985)	1261845	50.0000	53.71
64	Styrene	104	8.260	8.260	(1.077)	813232	50.0000	52.32
78	tert-Butylbenzene	119	9.339	9.339	(0.966)	909902	50.0000	53.03
56	Tetrachloroethene	164	6.929	6.929	(0.903)	260552	50.0000	49.31
50	Toluene	91	6.449	6.449	(0.841)	1122950	50.0000	49.02
20	trans-1,2-Dichloroethene	96	2.539	2.539	(0.607)	246742	50.0000	49.47
51	trans-1,3-Dichloropropene	75	6.682	6.682	(1.344)	381213	50.0000	51.39
38	Trichloroethene	130	5.208	5.208	(1.047)	307290	50.0000	50.70
8	Trichlorofluoromethane	101	1.568	1.568	(0.375)	432252	50.0000	48.41
5	Vinyl Chloride	62	1.152	1.152	(0.275)	268526	50.0000	45.16

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081931.D
Date : 19-AUG-2022 21:06
Client ID: CCV-END
Sample Info: CCV-END;CCV-END;2;;
Purge Volume: 5.0
Column phase: DB624

\\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081931.D

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

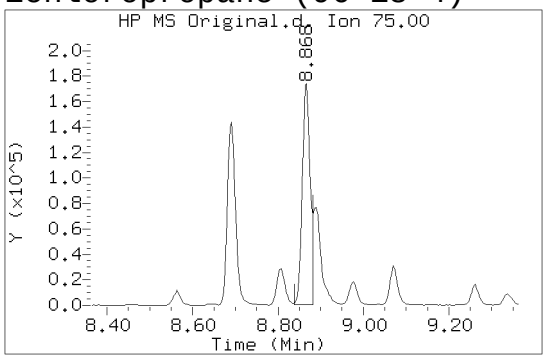
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081931.D
Inj Date : 19-AUG-2022 21:06
InstruID : voa6.i
LabSampID : CCV-END

1,2,3-Trichloropropane (96-18-4)

Reason Code:

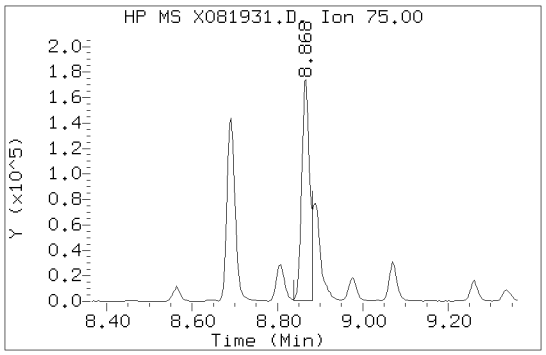
BEFORE

MASS
75
AREA
236769
HEIGHT
173664
08-Sep-2022
12:27
linh
pham



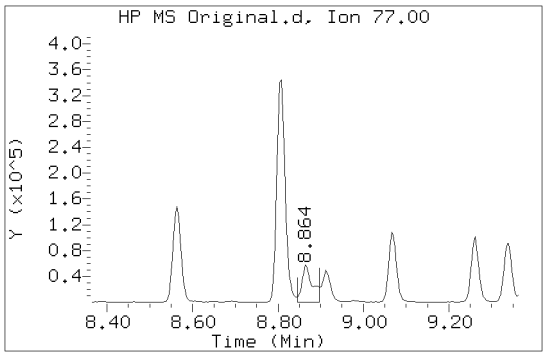
AFTER

MASS
75
AREA
236769
HEIGHT
173664
08-Sep-2022
12:27
linh
pham



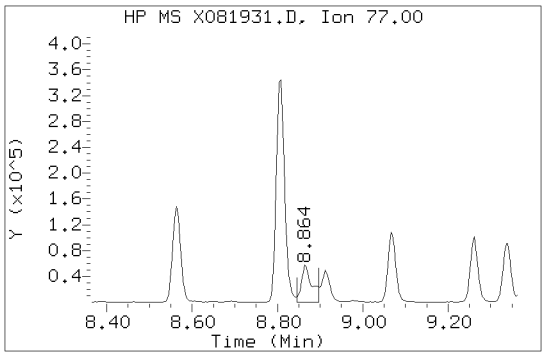
BEFORE

MASS
77
AREA
100942
HEIGHT
57745
08-Sep-2022
12:27
linh
pham



AFTER

MASS
77
AREA
100942
HEIGHT
57745
08-Sep-2022
12:27
linh
pham



right solutions.
right partner.

Raw Data VOA6 415598

Workorder

HS22080927

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

09/08/2022

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082201.D Page 1
Report Date: 22-Aug-2022 10:45

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082201.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 22-AUG-2022 10:20
Operator : PC Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220822.b\bfb.m
Meth Date : 26-Jul-2022 15:17 Linh.Pham Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7051

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
8.691	8.889	(0.000)	95	75456			0.00- 100.00	100.00
8.691	8.889	(0.000)	50	14556			15.00- 40.00	19.29
8.691	8.889	(0.000)	75	37352			30.00- 60.00	49.50
8.691	8.889	(0.000)	96	5744			5.00- 9.00	7.61
8.691	8.889	(0.000)	173	508			0.00- 2.00	0.80
8.691	8.889	(0.000)	174	63624			50.00- 0.00	84.32
8.691	8.889	(0.000)	175	5118			5.00- 9.00	8.04
8.691	8.889	(0.000)	176	63776			95.00- 101.00	100.24
8.691	8.889	(0.000)	177	4872			5.00- 9.00	7.64

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.29
75	30.00 - 60.00% of mass 95	49.50
96	5.00 - 9.00% of mass 95	7.61
173	Less than 2.00% of mass 174	0.67 (0.80)
174	Greater than 50.00% of mass 95	84.32
175	5.00 - 9.00% of mass 174	6.78 (8.04)
176	95.00 - 101.00% of mass 174	84.52 (100.24)
177	5.00 - 9.00% of mass 176	6.46 (7.64)

Data File: X082201.D
Spectrum: Scan 2160 (8.68)
Location of Maximum: 95.00
Number of points: 113

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.90	842	67.00	307	98.00	1575	140.80	654
37.00	3305	68.00	7714	99.10	125	142.20	101
38.00	3424	69.00	9120	102.90	122	142.80	801
39.10	2496	70.00	1274	104.00	526	145.00	54
40.00	1399	71.00	260	105.00	387	145.60	66
41.10	1452	71.90	523	105.90	292	147.90	329
42.00	2304	73.00	3507	106.80	187	148.90	56
43.10	863	74.00	12972	108.70	80	149.60	63
44.00	1315	75.00	37352	109.90	152	152.90	95
45.00	655	76.00	3206	111.00	76	155.00	169
47.00	820	77.00	1013	111.90	91	156.80	189
47.90	485	77.90	389	112.80	140	158.80	97
49.00	3108	78.90	2517	114.60	77	160.90	108
50.10	14556	79.90	772	115.30	147	169.80	186
51.00	4949	80.90	2929	115.80	270	171.10	66
52.20	384	82.00	601	116.90	471	172.90	508
53.10	82	83.00	483	117.90	309	173.90	63624
54.00	265	84.00	50	118.90	451	174.90	5118
55.00	3419	84.90	233	124.00	59	175.90	63776
56.00	1618	86.00	109	124.80	63	176.90	4872
57.00	2555	87.00	3301	127.10	184	177.80	72
58.00	292	88.00	3312	127.90	459	178.10	68
60.00	796	90.90	408	128.90	168	186.00	445
61.00	4018	92.00	1989	129.80	240	207.20	54
62.00	2989	93.00	3445	130.90	201	261.90	131
63.10	2909	94.00	7894	134.90	121	278.00	75
64.10	368	95.00	75456	136.80	196		
64.80	175	96.00	5744	139.10	51		
65.90	235	97.00	223	139.80	63		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082201.D Page 1

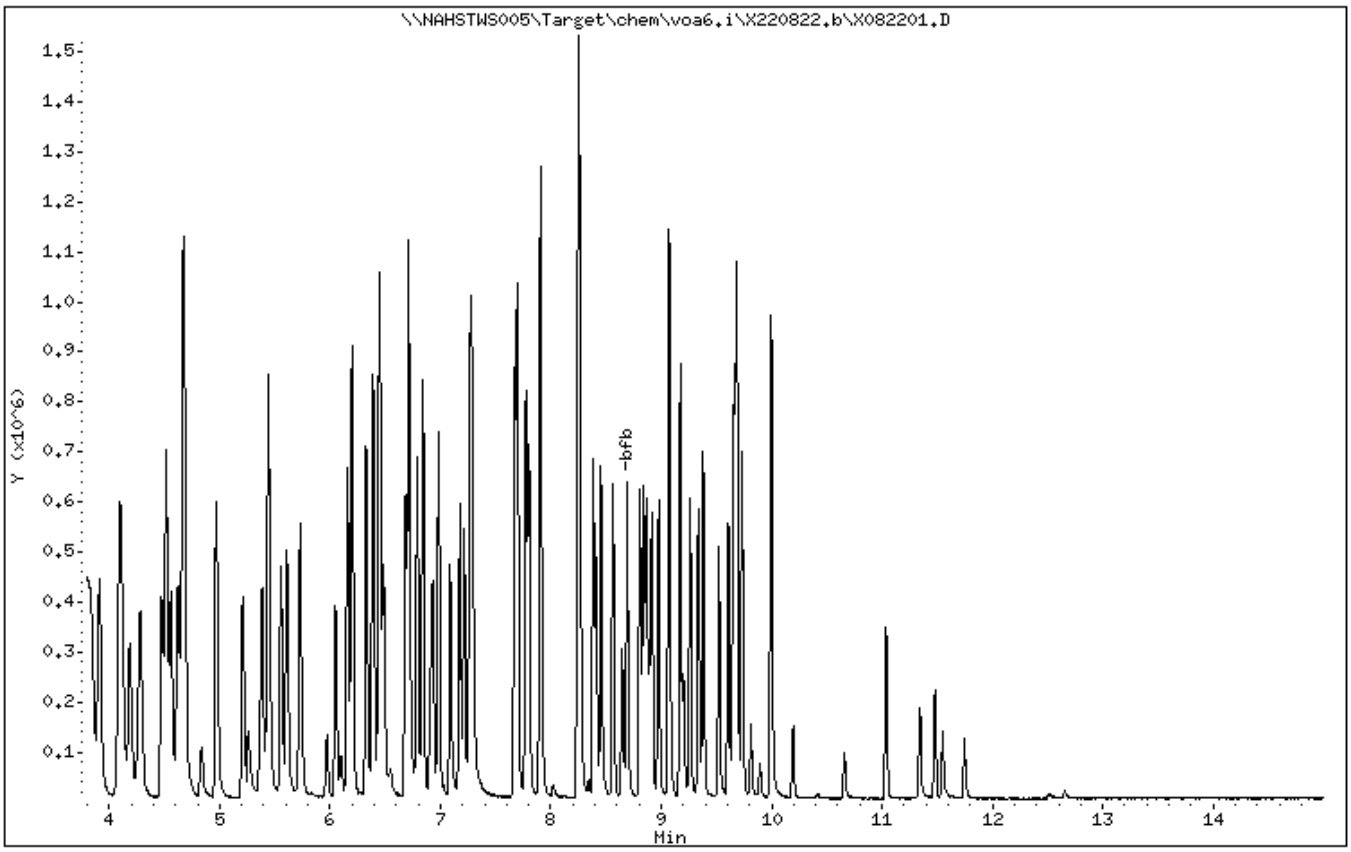
Date : 22-AUG-2022 10:20

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082201.D

Date : 22-AUG-2022 10:20

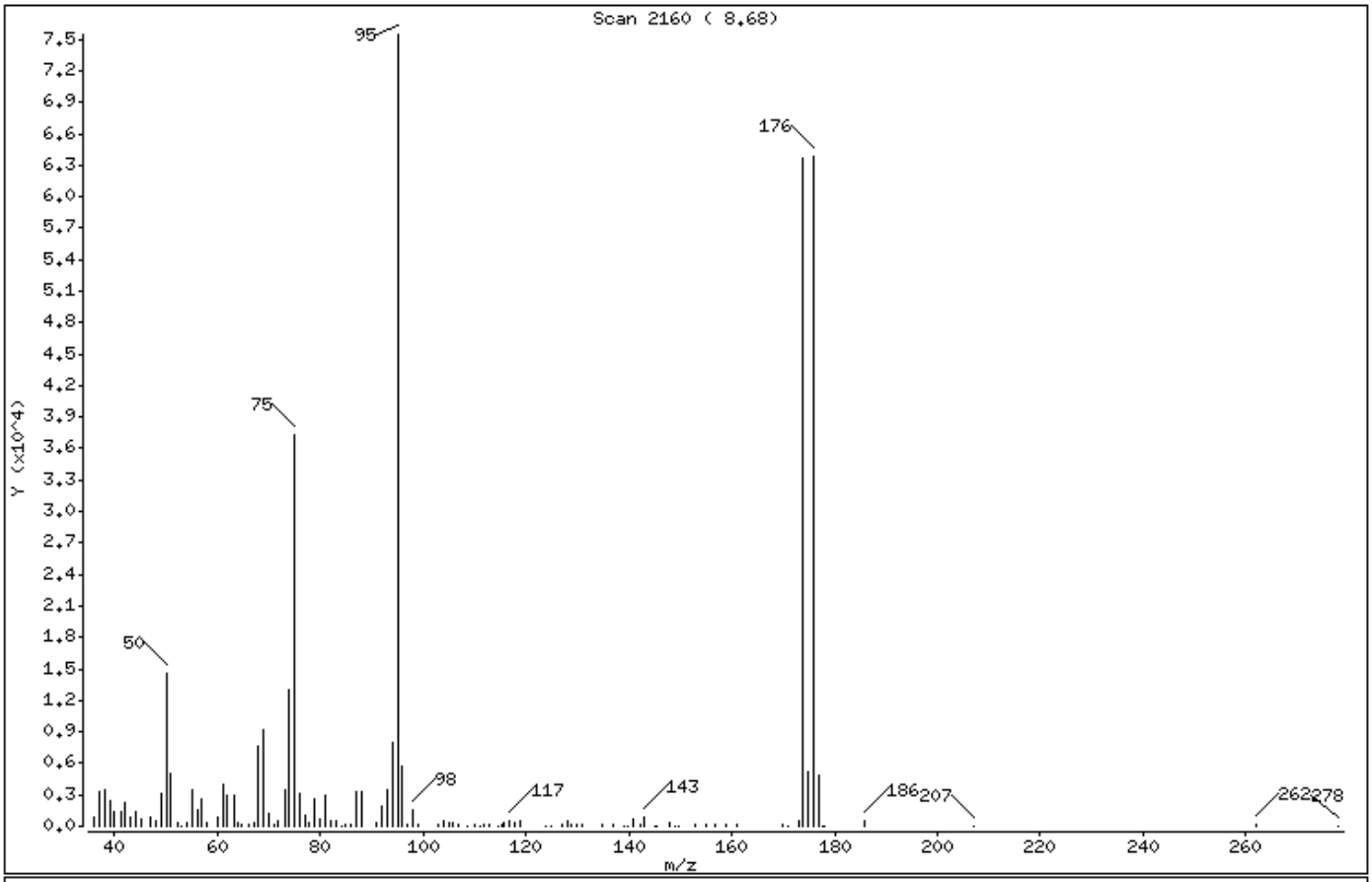
Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.29
75	30.00 - 60.00% of mass 95	49.50
96	5.00 - 9.00% of mass 95	7.61
173	Less than 2.00% of mass 174	0.67 (0.80)
174	Greater than 50.00% of mass 95	84.32
175	5.00 - 9.00% of mass 174	6.78 (8.04)
176	95.00 - 101.00% of mass 174	84.52 (100.24)
177	5.00 - 9.00% of mass 176	6.46 (7.64)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082201.D

Date : 22-AUG-2022 10:20

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

Data File: X082201.D
Spectrum: Scan 2160 (8.68)
Location of Maximum: 95.00
Number of points: 113

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.90	842	67.00	307	98.00	1575	140.80	654
37.00	3305	68.00	7714	99.10	125	142.20	101
38.00	3424	69.00	9120	102.90	122	142.80	801
39.10	2496	70.00	1274	104.00	526	145.00	54
40.00	1399	71.00	260	105.00	387	145.60	66
41.10	1452	71.90	523	105.90	292	147.90	329
42.00	2304	73.00	3507	106.80	187	148.90	56
43.10	863	74.00	12972	108.70	80	149.60	63
44.00	1315	75.00	37352	109.90	152	152.90	95
45.00	655	76.00	3206	111.00	76	155.00	169
47.00	820	77.00	1013	111.90	91	156.80	189
47.90	485	77.90	389	112.80	140	158.80	97
49.00	3108	78.90	2517	114.60	77	160.90	108
50.10	14556	79.90	772	115.30	147	169.80	186
51.00	4949	80.90	2929	115.80	270	171.10	66
52.20	384	82.00	601	116.90	471	172.90	508
53.10	82	83.00	483	117.90	309	173.90	63624
54.00	265	84.00	50	118.90	451	174.90	5118
55.00	3419	84.90	233	124.00	59	175.90	63776
56.00	1618	86.00	109	124.80	63	176.90	4872
57.00	2555	87.00	3301	127.10	184	177.80	72
58.00	292	88.00	3312	127.90	459	178.10	68
60.00	796	90.90	408	128.90	168	186.00	445
61.00	4018	92.00	1989	129.80	240	207.20	54
62.00	2989	93.00	3445	130.90	201	261.90	131
63.10	2909	94.00	7894	134.90	121	278.00	75
64.10	368	95.00	75456	136.80	196		
64.80	175	96.00	5744	139.10	51		
65.90	235	97.00	223	139.80	63		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082203.D Page 1
Report Date: 08-Sep-2022 12:31

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082203.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 22-AUG-2022 11:02
Operator : PC Inst ID: voa6.i
Smp Info : CCV;CCV;2;;
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220822.b\8260W.m
Meth Date : 08-Sep-2022 12:31 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

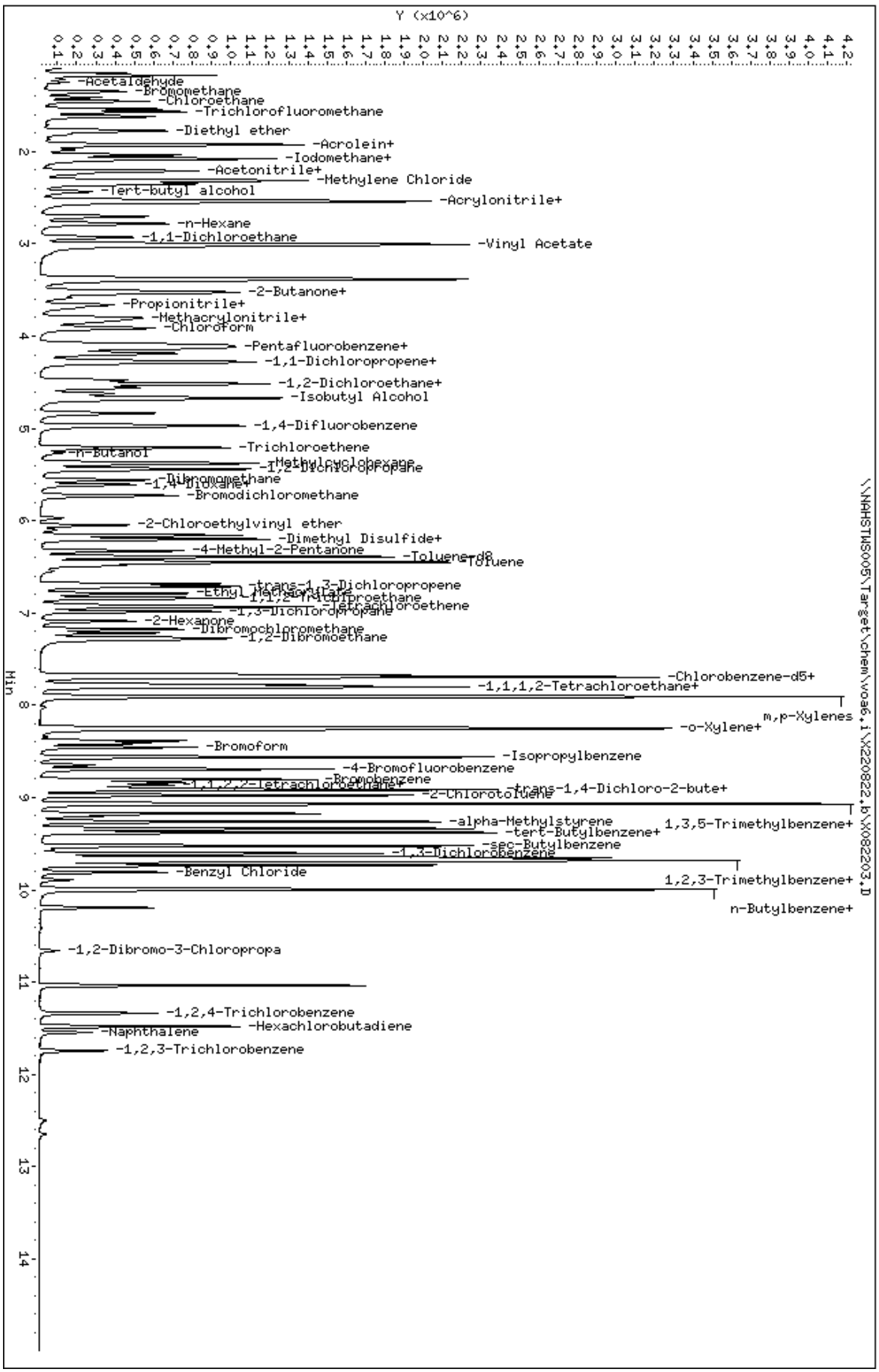
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.189	4.189	(1.000)	603726	50.0000	
* 36 1,4-Difluorobenzene	114	4.969	4.969	(1.000)	899253	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	838124	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.666	9.666	(1.000)	404873	50.0000	
$ 30 Dibromofluoromethane	113	4.103	4.103	(0.979)	308714	50.0000	54.24
$ 35 1,2-Dichloroethane-d4	65	4.477	4.477	(1.069)	337346	50.0000	54.09
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1073452	50.0000	51.33
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	390851	50.0000	52.29
60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	314293	50.0000	53.37
31 1,1,1-Trichloroethane	97	4.091	4.091	(0.977)	460599	50.0000	53.77
68 1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	283302	50.0000	49.82
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	215551	50.0000	50.02
22 1,1-Dichloroethane	63	2.929	2.929	(0.699)	492615	50.0000	53.00
11 1,1-Dichloroethene	96	1.925	1.925	(0.460)	239016	50.0000	47.42
32 1,1-Dichloropropene	75	4.286	4.286	(0.863)	392655	50.0000	54.10
93 1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	102726	50.0000	48.80
71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	228242	50.0000	52.05(M)
90 1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	186486	50.0000	50.57
79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	1067742	50.0000	54.97
89 1,2-Dibromo-3-Chloropropane	155	10.659	10.659	(1.103)	21549	50.0000	50.21

57	1,2-Dibromoethane	107	7.263	7.263 (0.947)	276280	50.0000	50.56
88	1,2-Dichlorobenzene	146	9.995	9.995 (1.034)	534198	50.0000	52.73

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
33	1,2-Dichloroethane	62	4.560	4.560	(0.918)	416571	50.0000	52.82
42	1,2-Dichloropropane	63	5.441	5.441	(1.095)	289473	50.0000	52.29
75	1,3,5-Trimethylbenzene	105	9.070	9.070	(0.938)	1066928	50.0000	54.25
83	1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	604138	50.0000	53.78
54	1,3-Dichloropropane	76	6.982	6.982	(0.910)	442845	50.0000	50.52
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	616356	50.0000	51.68
26	2,2-Dichloropropane	77	3.514	3.514	(0.839)	461863	50.0000	55.98
24	2-Butanone	43	3.582	3.582	(0.855)	164121	100.000	108.36
76	2-Chlorotoluene	91	8.976	8.976	(0.929)	898069	50.0000	51.74
52	2-Hexanone	43	7.087	7.087	(0.924)	273230	100.000	103.67
77	4-Chlorotoluene	91	9.070	9.070	(0.938)	1045120	50.0000	53.95
82	p-Isopropyltoluene	119	9.651	9.651	(0.998)	1103905	50.0000	55.89
45	4-Methyl-2-Pentanone	43	6.329	6.329	(0.825)	422347	100.000	103.41
10	Acetone	43	1.981	1.981	(0.473)	132066	100.000	104.10
37	Benzene	78	4.515	4.515	(0.909)	1093948	50.0000	51.33
74	Bromobenzene	156	8.807	8.807	(0.911)	363701	50.0000	52.60
29	Bromochloromethane	128	3.803	3.803	(0.908)	165320	50.0000	48.56
39	Bromodichloromethane	83	5.730	5.730	(1.153)	400360	50.0000	52.71
66	Bromoform	173	8.410	8.410	(1.096)	198186	50.0000	48.80
6	Bromomethane	94	1.347	1.347	(0.322)	206996	50.0000	50.19
19	Carbon Disulfide	76	2.078	2.078	(0.496)	1447519	100.000	108.49
34	Carbon Tetrachloride	117	4.271	4.271	(0.860)	399913	50.0000	51.55
59	Chlorobenzene	112	7.694	7.694	(1.003)	825998	50.0000	51.97
7	Chloroethane	64	1.411	1.411	(0.337)	185756	50.0000	47.97
28	Chloroform	83	3.911	3.911	(0.934)	527512	50.0000	51.80
3	Chloromethane	50	1.085	1.085	(0.259)	302427	50.0000	54.10
27	cis-1,2-Dichloroethene	96	3.533	3.533	(0.843)	317708	50.0000	52.93
46	cis-1,3-Dichloropropene	75	6.157	6.157	(1.239)	503018	50.0000	53.92
55	Dibromochloromethane	129	7.176	7.176	(0.936)	322588	50.0000	51.85
44	Dibromomethane	93	5.553	5.553	(1.118)	188632	50.0000	50.79
2	Dichlorodifluoromethane	85	0.980	0.980	(0.234)	320586	50.0000	55.75
61	Ethylbenzene	106	7.803	7.803	(1.017)	427904	50.0000	53.30
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	170742	50.0000	50.13
67	Isopropylbenzene	105	8.563	8.563	(1.116)	1304061	50.0000	54.01
62	m,p-Xylenes	106	7.907	7.907	(1.031)	1078314	100.000	107.98
17	Methylene Chloride	84	2.311	2.311	(0.552)	293972	50.0000	53.00
87	n-Butylbenzene	91	9.995	9.995	(1.034)	950314	50.0000	57.91
73	n-Propylbenzene	91	8.912	8.912	(0.922)	1507829	50.0000	56.45
92	Naphthalene	128	11.547	11.547	(1.195)	204059	50.0000	49.46
63	o-Xylene	106	8.245	8.245	(1.075)	510295	50.0000	52.56
81	sec-Butylbenzene	105	9.523	9.523	(0.985)	1270232	50.0000	55.65
64	Styrene	104	8.260	8.260	(1.077)	858809	50.0000	53.72
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	901555	50.0000	54.08
56	Tetrachloroethene	164	6.929	6.929	(0.903)	273285	50.0000	50.28
50	Toluene	91	6.449	6.449	(0.841)	1215074	50.0000	51.57
20	trans-1,2-Dichloroethene	96	2.536	2.536	(0.605)	278070	50.0000	52.35
51	trans-1,3-Dichloropropene	75	6.682	6.682	(1.345)	418606	50.0000	54.18
38	Trichloroethene	130	5.208	5.208	(1.048)	328487	50.0000	52.03
8	Trichlorofluoromethane	101	1.569	1.569	(0.375)	471216	50.0000	49.56
5	Vinyl Chloride	62	1.152	1.152	(0.275)	304446	50.0000	48.09

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082203.D
Date : 22-AUG-2022 11:02
Client ID: CCV
Sample Info: CCV;CCV;2;;
Purge Volume: 5.0
Column phase: DB624

\\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082203.D

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

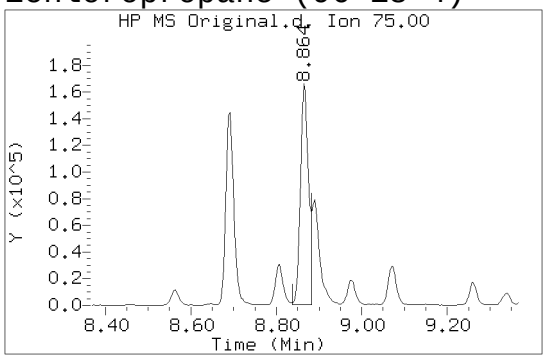
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082203.D
Inj Date : 22-AUG-2022 11:02
InstruID : voa6.i
LabSampID : CCV

1,2,3-Trichloropropane (96-18-4)

Reason Code:

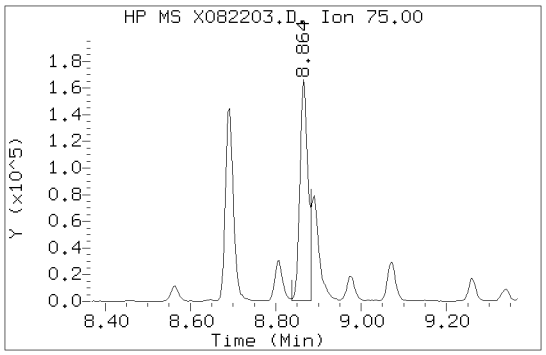
BEFORE

MASS
75
AREA
228242
HEIGHT
165842
08-Sep-2022
12:31
linh
pham



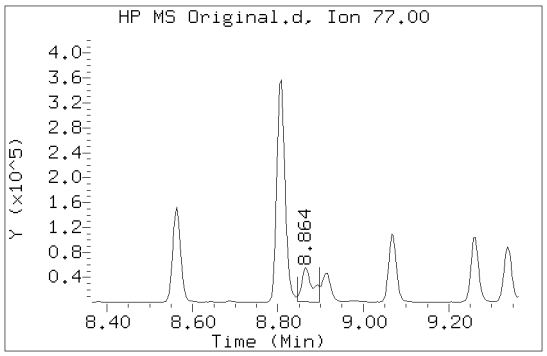
AFTER

MASS
75
AREA
228242
HEIGHT
165842
08-Sep-2022
12:31
linh
pham



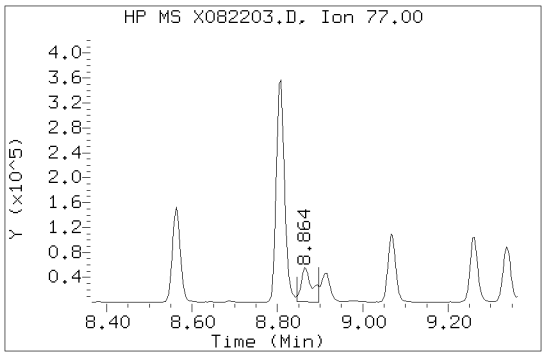
BEFORE

MASS
77
AREA
101134
HEIGHT
54839
08-Sep-2022
12:31
linh
pham



AFTER

MASS
77
AREA
101134
HEIGHT
54839
08-Sep-2022
12:31
linh
pham



ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082204.D
Lab Smp Id: CCB Client Smp ID: CCB
Inj Date : 22-AUG-2022 11:23
Operator : PC Inst ID: voa6.i
Smp Info : CCB;CCB;;;
Misc Info : HS22052000V6;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa6.i\X220822.b\8260W.m
Meth Date : 22-Aug-2022 21:50 pcabasca Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.185	4.189	(1.000)	647729	50.0000	
$ 30 Dibromofluoromethane	113	4.103	4.103	(0.980)	294818	48.2074	48.20
$ 35 1,2-Dichloroethane-d4	65	4.477	4.477	(1.070)	322461	48.1574	48.15
* 36 1,4-Difluorobenzene	114	4.969	4.969	(1.000)	931064	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	811096	50.0000	
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1080698	53.4020	53.40
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	352479	48.6768	48.67
* 70 1,4-Dichlorobenzene-d4	152	9.666	9.666	(1.000)	352206	50.0000	

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082205.D Page 1
Report Date: 08-Sep-2022 12:42

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082205.D
Lab Smp Id: VLCSW-220822 Client Smp ID: VLCSW-220822
Inj Date : 22-AUG-2022 11:44
Operator : PC Inst ID: voa6.i
Smp Info : VLCSW-220822;VLCSW-220822;3;;LCS
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220822.b\8260W.m
Meth Date : 08-Sep-2022 12:31 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

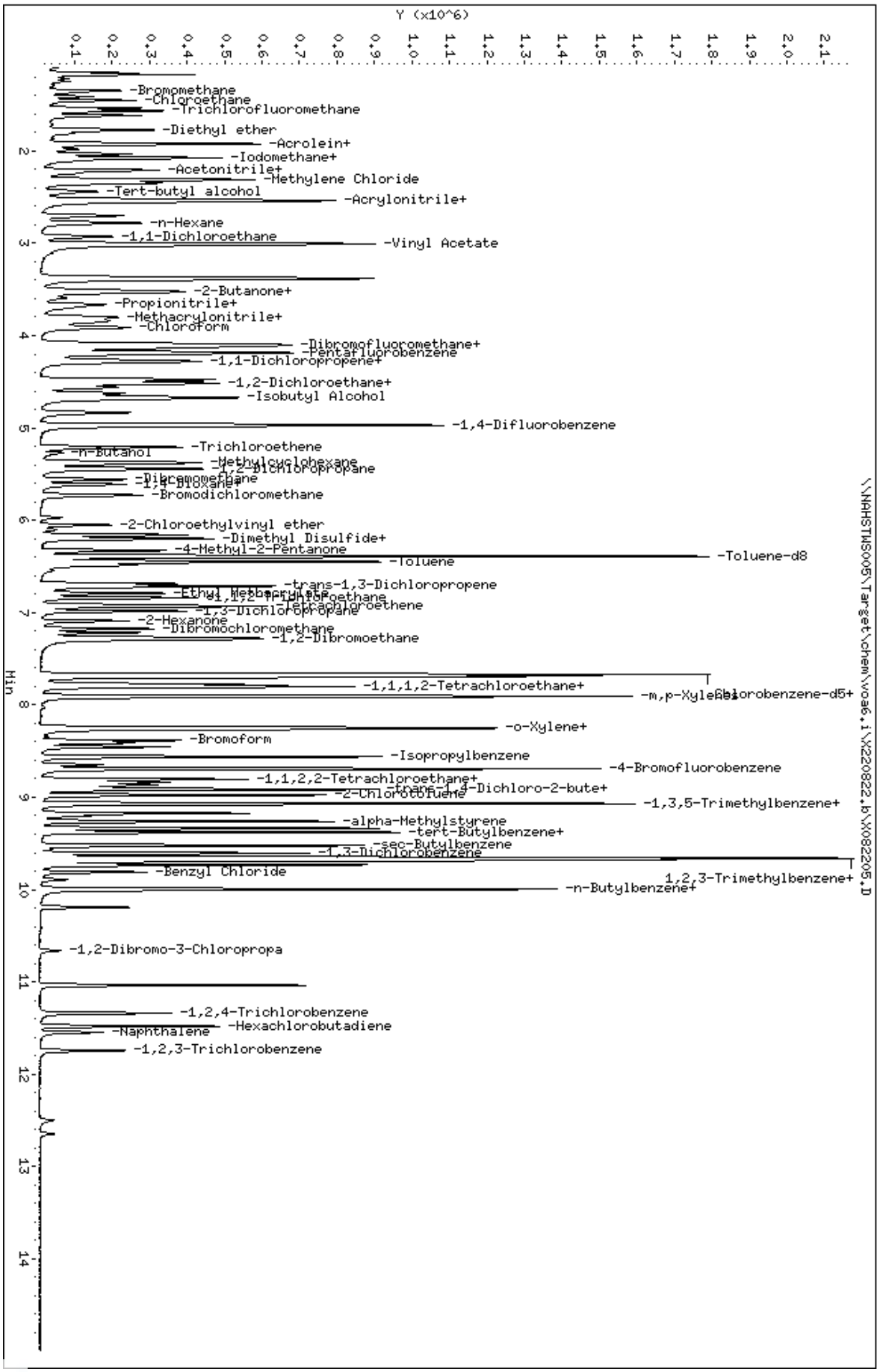
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.185	4.189	(1.000)	592288	50.0000	
* 36 1,4-Difluorobenzene	114	4.969	4.969	(1.000)	891073	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	825533	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.666	9.662	(1.000)	424686	50.0000	
$ 30 Dibromofluoromethane	113	4.103	4.103	(0.980)	306600	54.9266	54.92
$ 35 1,2-Dichloroethane-d4	65	4.474	4.477	(1.069)	357591	58.4725	58.47
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1068215	51.8621	51.86
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	391351	53.1748	53.17
60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	120343	20.7493	20.74
31 1,1,1-Trichloroethane	97	4.084	4.088	(0.976)	183101	21.7919	21.79
68 1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	131791	22.0956	22.09
53 1,1,2-Trichloroethane	83	6.839	6.843	(0.892)	90564	21.3368	21.33
22 1,1-Dichloroethane	63	2.926	2.929	(0.699)	195992	21.4944	21.49
11 1,1-Dichloroethene	96	1.921	1.925	(0.459)	98147	19.8510	19.85
32 1,1-Dichloropropene	75	4.283	4.286	(0.862)	152981	21.2722	21.27
93 1,2,3-Trichlorobenzene	180	11.742	11.746	(1.215)	66895	30.3000	30.29(M)
71 1,2,3-Trichloropropane	75	8.867	8.867	(0.917)	101127	21.9896	21.98(M)
90 1,2,4-Trichlorobenzene	180	11.341	11.341	(1.173)	100444	25.9676	25.96(M)
79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	421789	20.7054	20.70
89 1,2-Dibromo-3-Chloropropane	155	10.659	10.659	(1.103)	12178	27.7887	27.78(M)

57	1,2-Dibromoethane	107	7.263	7.263 (0.947)	115401	21.4427	21.44
88	1,2-Dichlorobenzene	146	9.992	9.992 (1.034)	227210	21.3814	21.38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
33	1,2-Dichloroethane	62	4.560	4.560	(0.918)	165921	21.2315	21.23
42	1,2-Dichloropropane	63	5.437	5.441	(1.094)	112724	20.5526	20.55
75	1,3,5-Trimethylbenzene	105	9.070	9.066	(0.938)	424161	20.5618	20.56
83	1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	243044	20.6265	20.62
54	1,3-Dichloropropane	76	6.982	6.985	(0.910)	183993	21.3107	21.31
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	257021	20.5464	20.54
26	2,2-Dichloropropane	77	3.514	3.518	(0.840)	177597	21.7909	21.79
24	2-Butanone	43	3.589	3.582	(0.858)	79828	53.7254	53.72
76	2-Chlorotoluene	91	8.976	8.976	(0.929)	355183	19.5117	19.51
52	2-Hexanone	43	7.090	7.090	(0.924)	134057	51.6431	51.64
77	4-Chlorotoluene	91	9.073	9.073	(0.939)	409298	20.1442	20.14
82	p-Isopropyltoluene	119	9.651	9.651	(0.998)	444571	21.4612	21.46
45	4-Methyl-2-Pentanone	43	6.329	6.326	(0.825)	200550	49.8569	49.85
10	Acetone	43	1.981	1.981	(0.473)	74396	57.2198	57.21
37	Benzene	78	4.515	4.515	(0.909)	431145	20.4189	20.41
74	Bromobenzene	156	8.807	8.807	(0.911)	144479	19.9209	19.92
29	Bromochloromethane	128	3.803	3.799	(0.909)	66028	19.7719	19.77
39	Bromodichloromethane	83	5.729	5.729	(1.153)	156459	20.7906	20.79
66	Bromoform	173	8.410	8.410	(1.096)	82430	21.3224	21.32
6	Bromomethane	94	1.347	1.347	(0.322)	90961	21.7256	21.72
19	Carbon Disulfide	76	2.075	2.078	(0.496)	577867	44.1482	44.14
34	Carbon Tetrachloride	117	4.268	4.271	(0.859)	158217	20.5843	20.58
59	Chlorobenzene	112	7.694	7.694	(1.003)	322219	20.5852	20.58
7	Chloroethane	64	1.411	1.411	(0.337)	76035	20.0148	20.01
28	Chloroform	83	3.915	3.911	(0.936)	207720	20.7919	20.79
3	Chloromethane	50	1.085	1.085	(0.259)	119884	21.8911	21.89
27	cis-1,2-Dichloroethene	96	3.533	3.533	(0.844)	124038	21.0646	21.06
46	cis-1,3-Dichloropropene	75	6.157	6.157	(1.239)	193028	20.8815	20.88
55	Dibromochloromethane	129	7.176	7.176	(0.936)	129137	21.0759	21.07
44	Dibromomethane	93	5.553	5.557	(1.118)	78698	21.3858	21.38
2	Dichlorodifluoromethane	85	0.980	0.980	(0.234)	125856	22.2086	22.20
61	Ethylbenzene	106	7.799	7.802	(1.017)	164423	20.7938	20.79
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	79972	22.3869	22.38
67	Isopropylbenzene	105	8.563	8.563	(1.116)	509610	21.4315	21.43
62	m,p-Xylenes	106	7.904	7.907	(1.030)	415032	42.1978	42.19
17	Methylene Chloride	84	2.311	2.311	(0.552)	123141	22.1317	22.13
87	n-Butylbenzene	91	9.995	9.995	(1.034)	385976	22.4237	22.42
73	n-Propylbenzene	91	8.916	8.912	(0.922)	593969	21.2009	21.20
92	Naphthalene	128	11.547	11.547	(1.195)	125024	28.8927	28.89(M)
63	o-Xylene	106	8.245	8.245	(1.075)	198834	20.7954	20.79
81	sec-Butylbenzene	105	9.523	9.523	(0.985)	507008	21.1775	21.17
64	Styrene	104	8.260	8.260	(1.077)	331082	21.0271	21.02
78	tert-Butylbenzene	119	9.336	9.339	(0.966)	360349	20.6107	20.61
56	Tetrachloroethene	164	6.929	6.929	(0.903)	111880	20.8997	20.89
50	Toluene	91	6.449	6.449	(0.841)	477506	20.5768	20.57
20	trans-1,2-Dichloroethene	96	2.539	2.536	(0.607)	108755	20.8725	20.87
51	trans-1,3-Dichloropropene	75	6.685	6.685	(1.346)	164376	21.4716	21.47
38	Trichloroethene	130	5.212	5.208	(1.049)	127621	20.4037	20.40
8	Trichlorofluoromethane	101	1.569	1.568	(0.375)	194762	20.8820	20.88
5	Vinyl Chloride	62	1.149	1.152	(0.275)	124553	20.0547	20.05

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082205.D
Date : 22-AUG-2022 11:44
Client ID: VLCSW-220822
Sample Info: VLCSW-220822;VLCSW-220822;3;;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

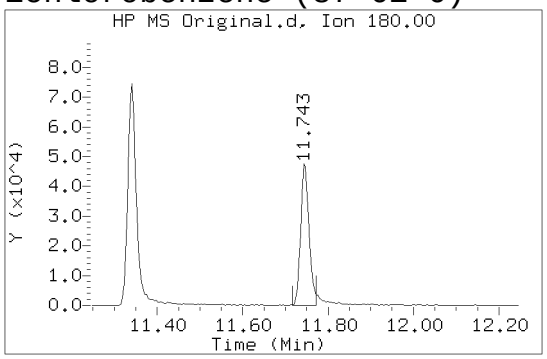
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082205.D
Inj Date : 22-AUG-2022 11:44
InstruID : voa6.i
LabSampID : VLCSW-220822

1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

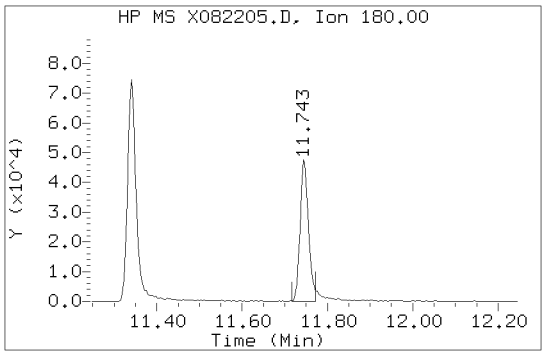
BEFORE

MASS
180
AREA
66895
HEIGHT
47568
08-Sep-2022
12:42
linh
pham



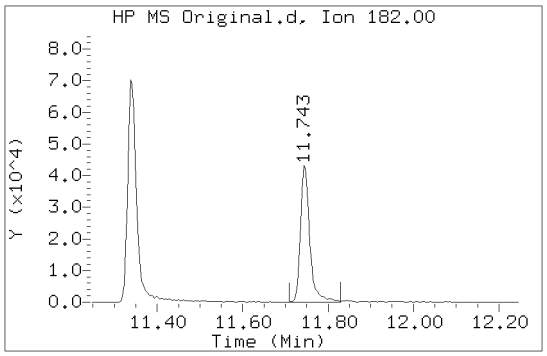
AFTER

MASS
180
AREA
66895
HEIGHT
47568
08-Sep-2022
12:42
linh
pham



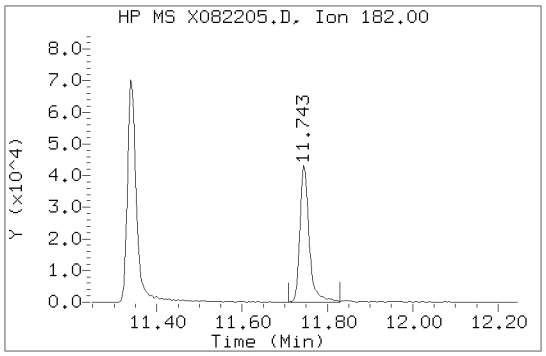
BEFORE

MASS
182
AREA
67226
HEIGHT
43282
08-Sep-2022
12:42
linh
pham



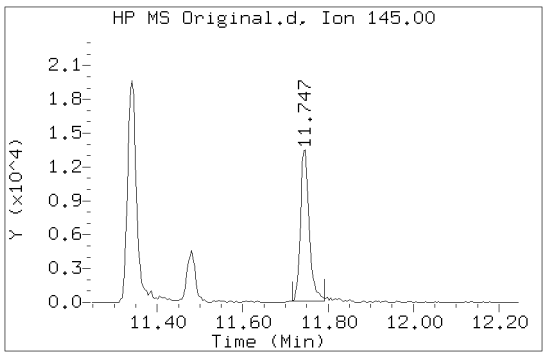
AFTER

MASS
182
AREA
67226
HEIGHT
43282
08-Sep-2022
12:42
linh
pham



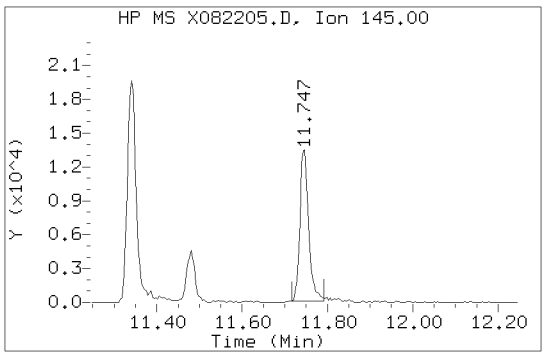
BEFORE

MASS
145
AREA
19679
HEIGHT
13420
08-Sep-2022
12:42
linh
pham



AFTER

MASS
145
AREA
19679
HEIGHT
13420
08-Sep-2022
12:42
linh
pham

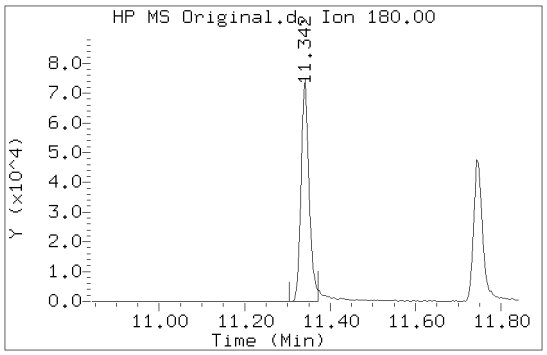


1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

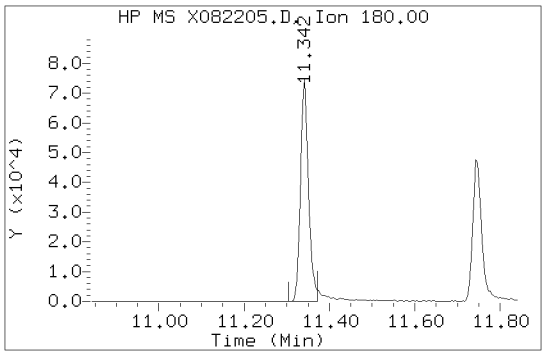
BEFORE

MASS
180
AREA
100444
HEIGHT
74520
08-Sep-2022
12:42
linh
pham



AFTER

MASS
180
AREA
100444
HEIGHT
74520
08-Sep-2022
12:42
linh
pham

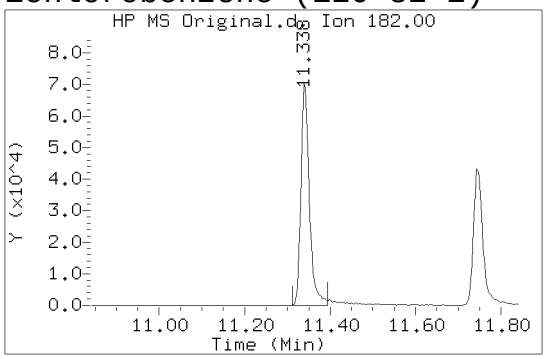


Data File : \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082205.D
Inj Date : 22-AUG-2022 11:44
InstruID : voa6.i
LabSampID : VLCSW-220822

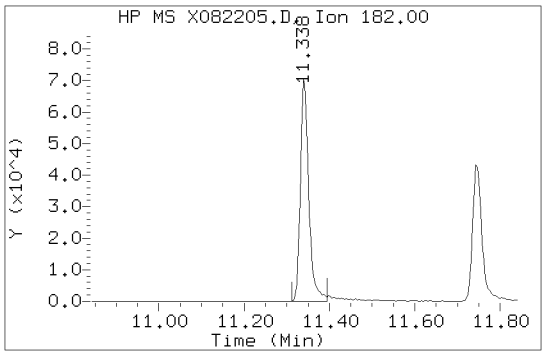
1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

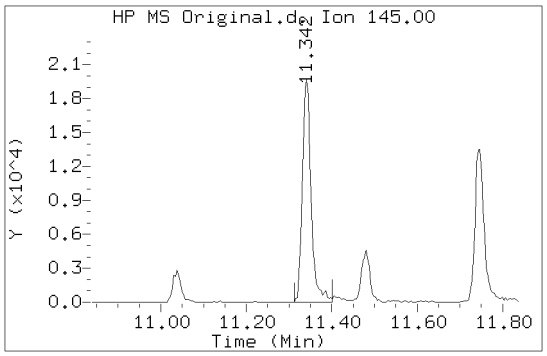
BEFORE
MASS
182
AREA
98985
HEIGHT
70205
08-Sep-2022
12:42
linh
pham



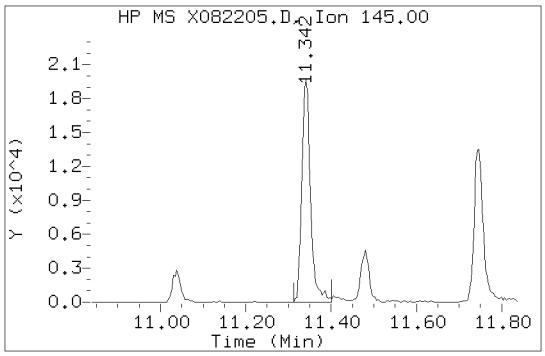
AFTER
MASS
182
AREA
98985
HEIGHT
70205
08-Sep-2022
12:42
linh
pham



BEFORE
MASS
145
AREA
28940
HEIGHT
19648
08-Sep-2022
12:42
linh
pham



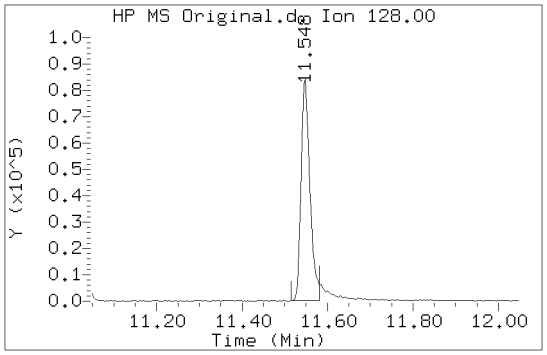
AFTER
MASS
145
AREA
28940
HEIGHT
19648
08-Sep-2022
12:42
linh
pham



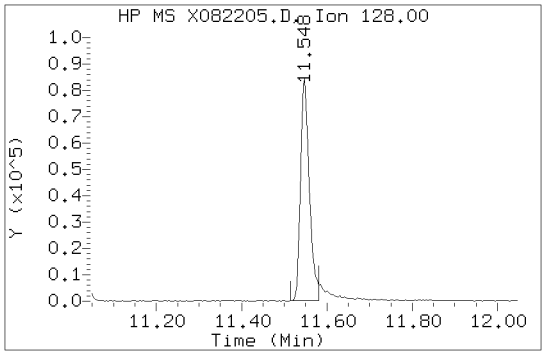
Naphthalene (91-20-3)

Reason Code:

BEFORE
MASS
128
AREA
125024
HEIGHT
84149
08-Sep-2022
12:42
linh
pham



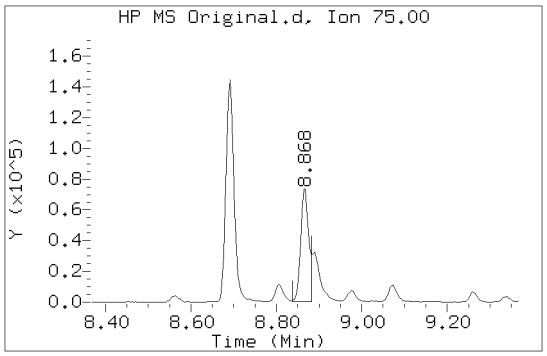
AFTER
MASS
128
AREA
125024
HEIGHT
84149
08-Sep-2022
12:42
linh
pham



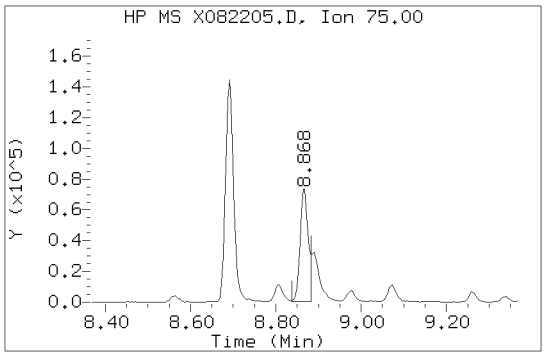
1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE
MASS
75
AREA
101127
HEIGHT
73438
08-Sep-2022
12:42
linh
pham



AFTER
MASS
75
AREA
101127
HEIGHT
73438
08-Sep-2022
12:42
linh
pham



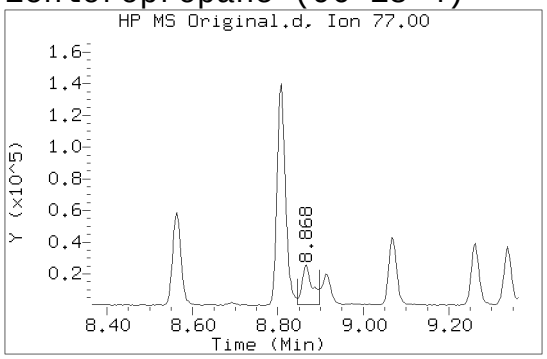
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082205.D
Inj Date : 22-AUG-2022 11:44
InstruID : voa6.i
LabSampID : VLCSW-220822

1,2,3-Trichloropropane (96-18-4)

Reason Code:

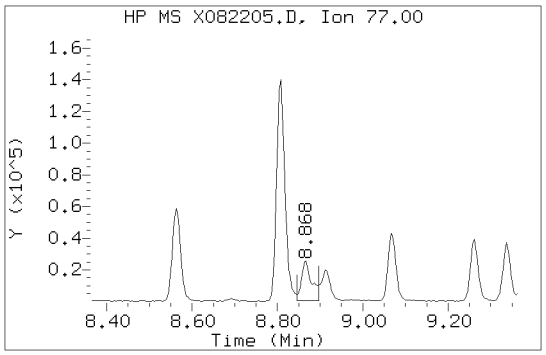
BEFORE

MASS
77
AREA
44992
HEIGHT
24994
08-Sep-2022
12:42
linh
pham



AFTER

MASS
77
AREA
44992
HEIGHT
24994
08-Sep-2022
12:42
linh
pham

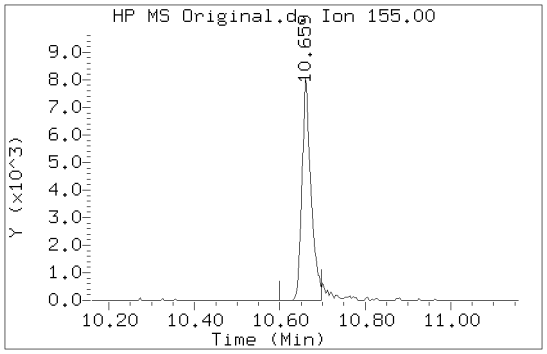


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

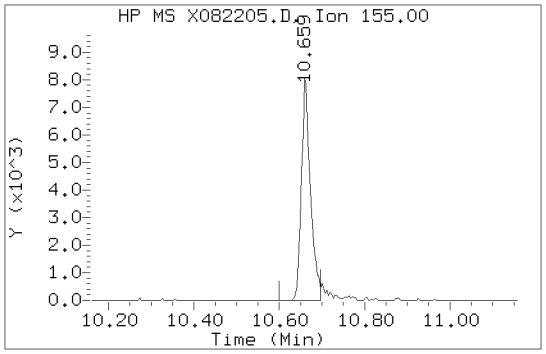
BEFORE

MASS
155
AREA
12178
HEIGHT
8040
08-Sep-2022
12:42
linh
pham



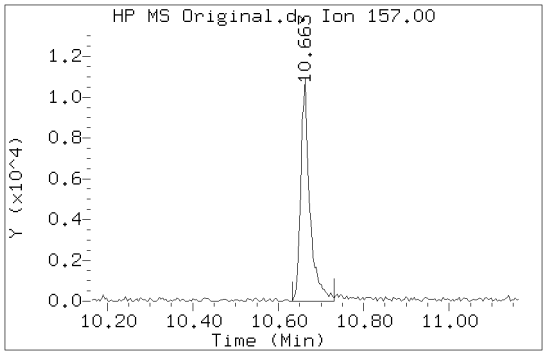
AFTER

MASS
155
AREA
12178
HEIGHT
8040
08-Sep-2022
12:42
linh
pham



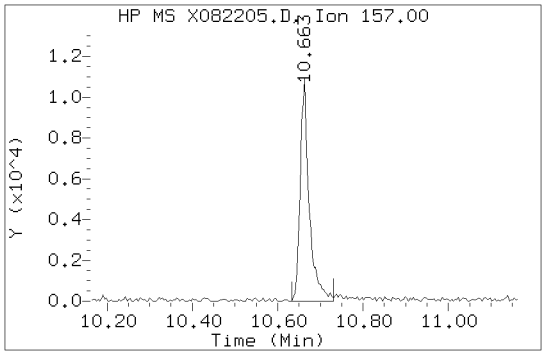
BEFORE

MASS
157
AREA
16455
HEIGHT
10897
08-Sep-2022
12:42
linh
pham



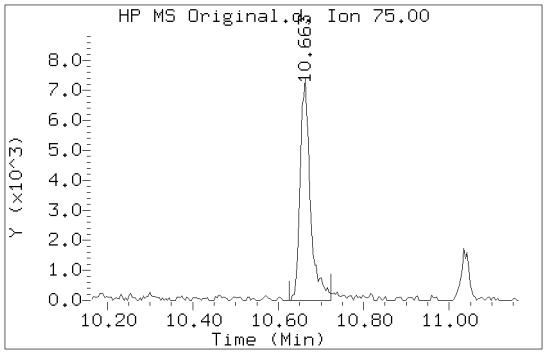
AFTER

MASS
157
AREA
16455
HEIGHT
10897
08-Sep-2022
12:42
linh
pham



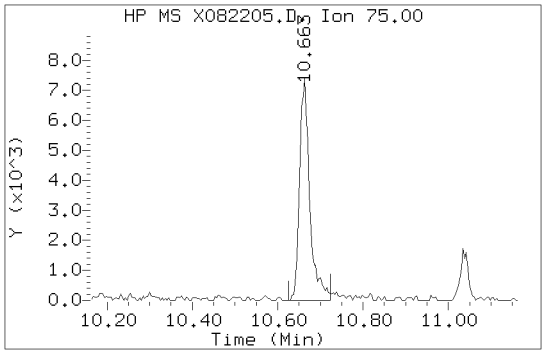
BEFORE

MASS
75
AREA
12644
HEIGHT
7390
08-Sep-2022
12:42
linh
pham



AFTER

MASS
75
AREA
12644
HEIGHT
7390
08-Sep-2022
12:42
linh
pham



ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082207.D
Lab Smp Id: VBLKW-220822 Client Smp ID: VBLKW-220822
Inj Date : 22-AUG-2022 12:26
Operator : PC Inst ID: voa6.i
Smp Info : VBLKW-220822;VBLKW-220822;3;;BLANK
Misc Info : HS22052000V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X220822.b\8260W.m
Meth Date : 08-Sep-2022 12:30 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.185	4.189	(1.000)	622492	50.0000	
* 36 1,4-Difluorobenzene	114	4.969	4.969	(1.000)	893956	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	783023	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.666	9.666	(1.000)	339998	50.0000	
$ 30 Dibromofluoromethane	113	4.106	4.103	(0.981)	280306	47.6849	47.68
$ 35 1,2-Dichloroethane-d4	65	4.478	4.477	(1.070)	317827	49.3981	49.39
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1043489	53.4120	53.41
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	334984	47.9065	47.90

01139998

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082207.D

Page 1

Date : 22-AUG-2022 12:26

Client ID: VBLKW-220822

Instrument: voa6.i

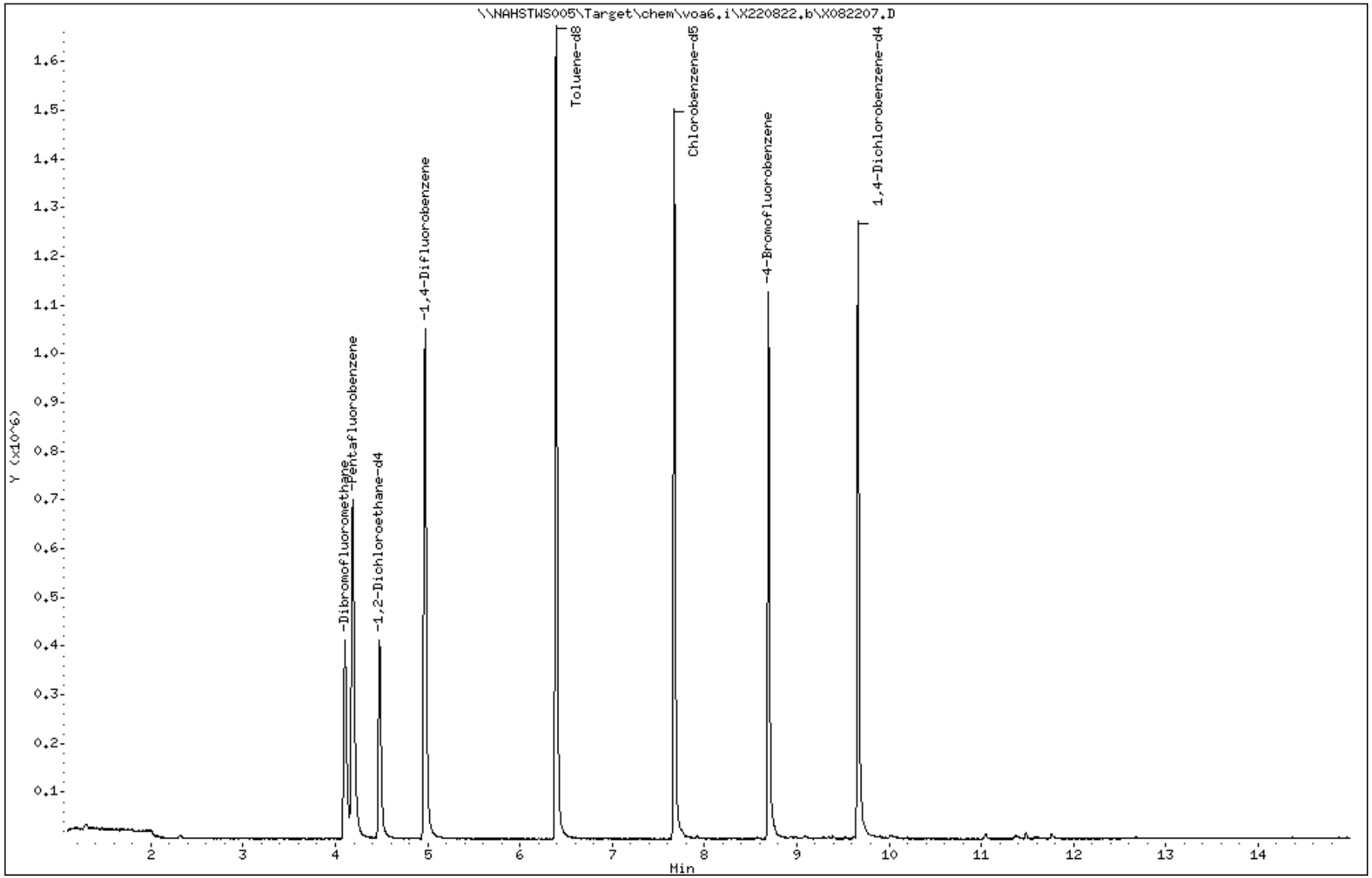
Sample Info: VBLKW-220822;VBLKW-220822;3;;BLANK

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082207.D
Inj Date : 22-AUG-2022 12:26
InstruID : voa6.i
LabSampID : VBLKW-220822

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082211.D Page 1
Report Date: 08-Sep-2022 12:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082211.D
Lab Smp Id: HS22080927-01 Client Smp ID: HS22080927-01
Inj Date : 22-AUG-2022 13:51
Operator : PC Inst ID: voa6.i
Smp Info : HS22080927-01;HS22080927-01;;;
Misc Info : HS22052000V6;WATER;0;10;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220822.b\8260W.m
Meth Date : 08-Sep-2022 12:30 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 11
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.185	4.189	(1.000)	617125	50.0000	
* 36 1,4-Difluorobenzene	114	4.972	4.969	(1.000)	884300	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	784538	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.666	9.666	(1.000)	340481	50.0000	
$ 30 Dibromofluoromethane	113	4.106	4.103	(0.981)	274511	47.0963	47.09
$ 35 1,2-Dichloroethane-d4	65	4.477	4.477	(1.070)	303143	47.5131	47.51
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1034055	52.8269	52.82
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	337303	48.1491	48.14
33 1,2-Dichloroethane	62	4.571	4.560	(0.919)	6749	0.87022	8.70(a)
27 cis-1,2-Dichloroethene	96	3.540	3.533	(0.846)	42711	6.96144	69.61
38 Trichloroethene	130	5.212	5.208	(1.048)	392821	63.2840	632.84

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01140001

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082211.D

Date : 22-AUG-2022 13:51

Client ID: HS22080927-01

Instrument: voa6.i

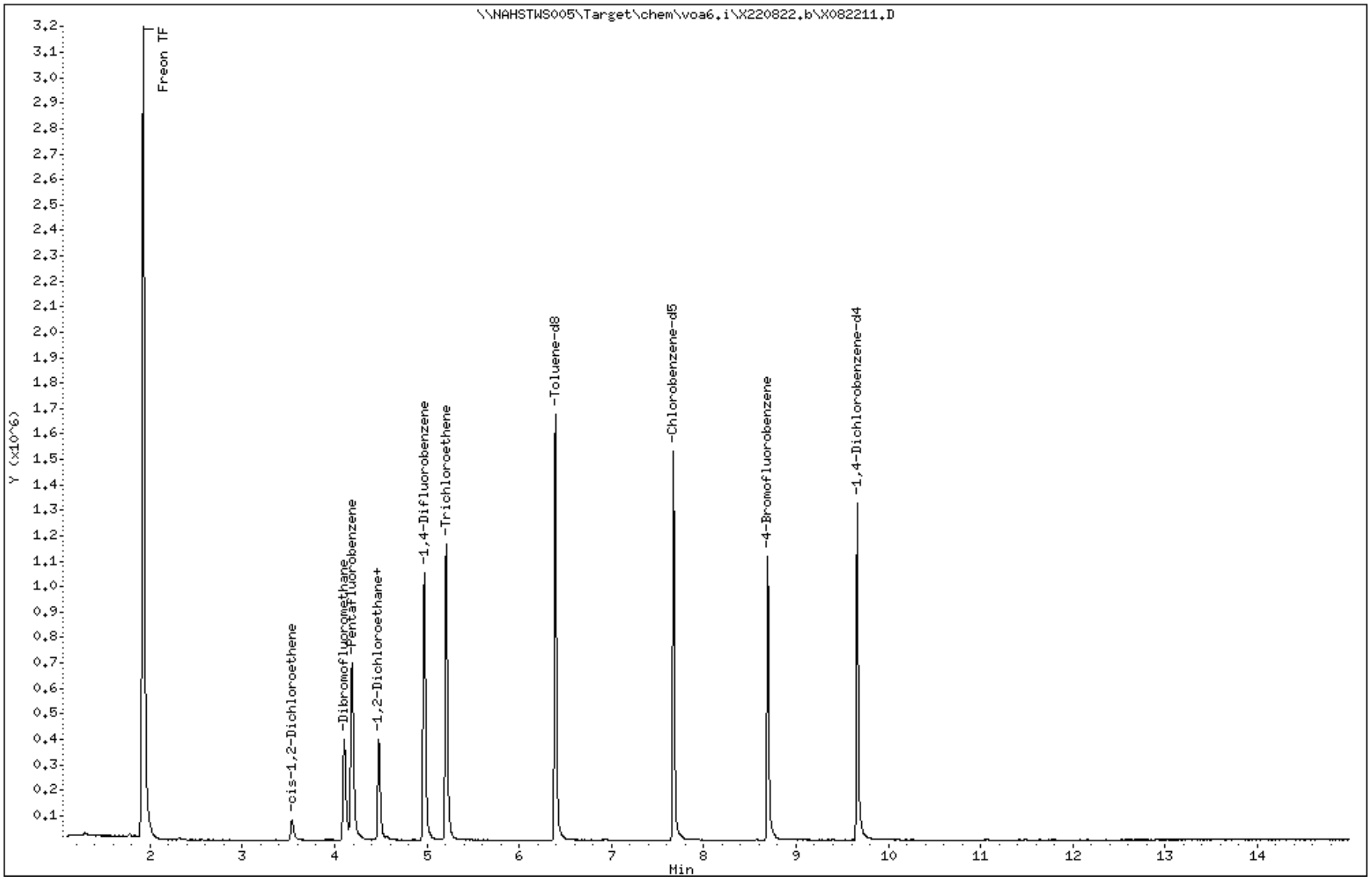
Sample Info: HS22080927-01;HS22080927-01;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082211.D

Date : 22-AUG-2022 13:51

Client ID: HS22080927-01

Instrument: voa6.i

Sample Info: HS22080927-01;HS22080927-01;;;

Purge Volume: 5.0

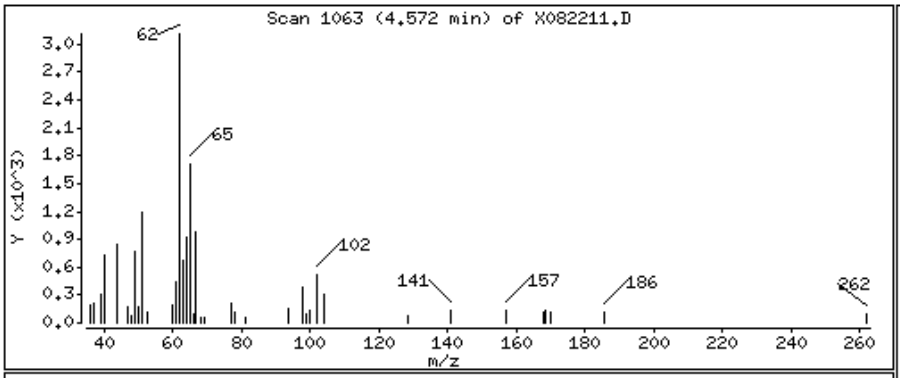
Operator: PC

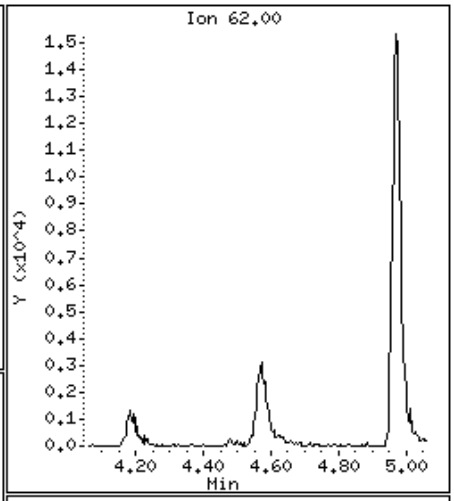
Column phase: DB624

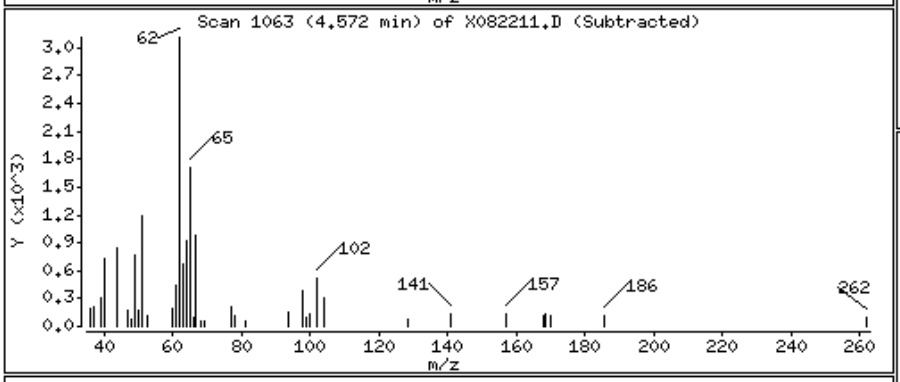
Column diameter: 0.18

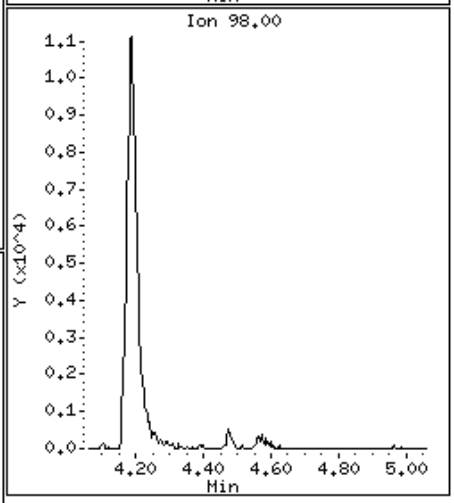
33 1,2-Dichloroethane

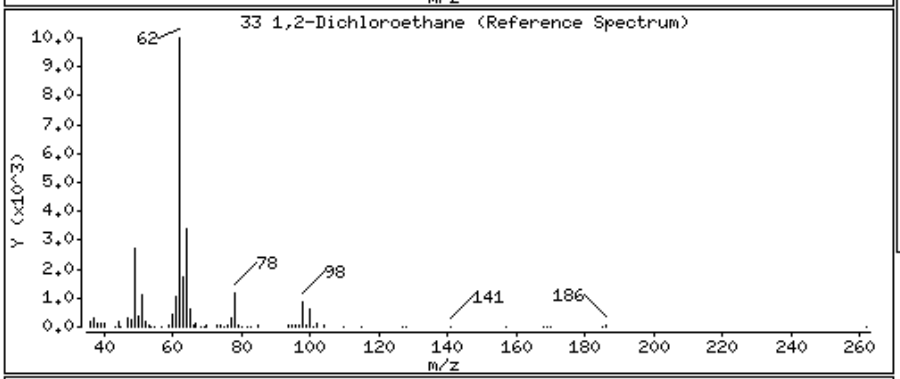
Concentration: 8.70 ug/l

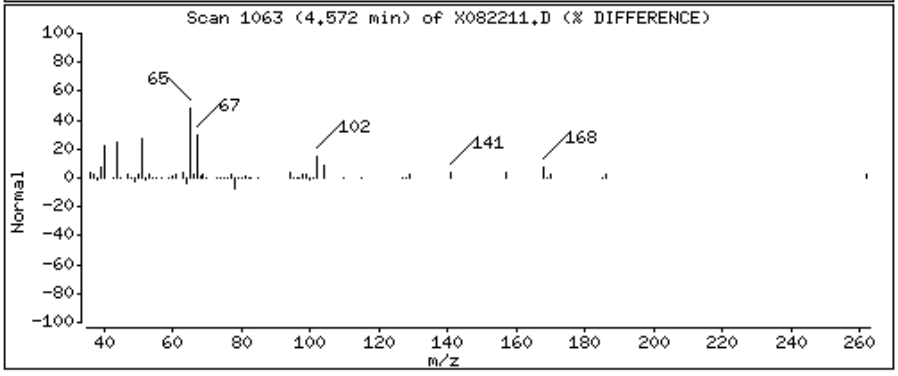












Data File: \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082211.D

Date : 22-AUG-2022 13:51

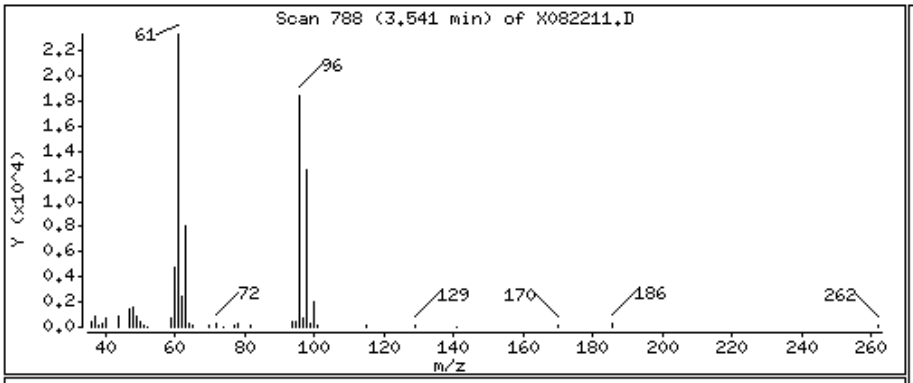
Client ID: HS22080927-01 Instrument: voa6.i

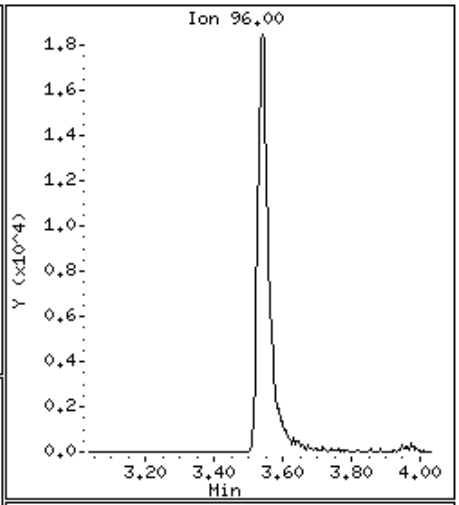
Sample Info: HS22080927-01;HS22080927-01;;;

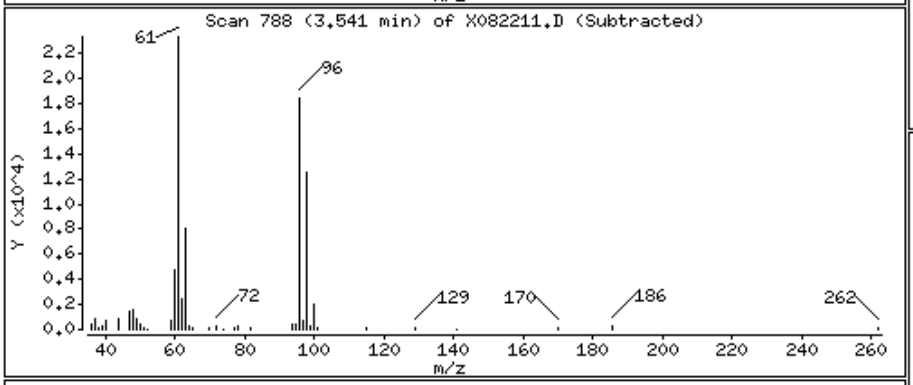
Purge Volume: 5.0 Operator: PC

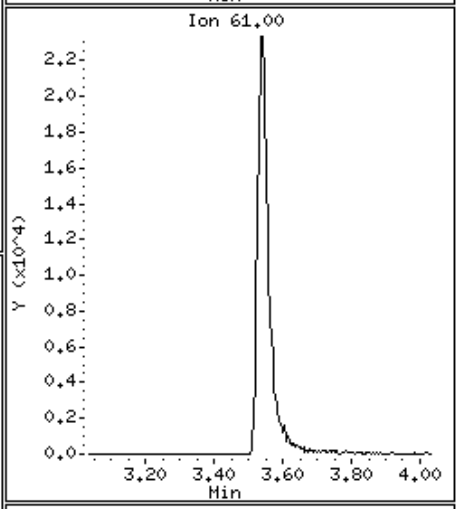
Column phase: DB624 Column diameter: 0.18

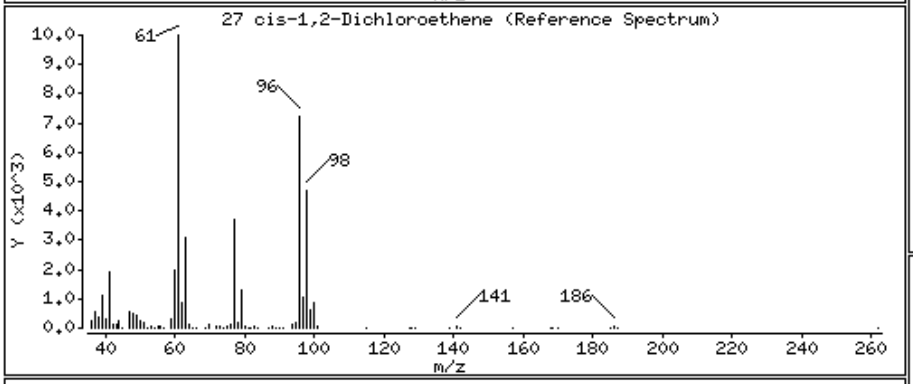
27 cis-1,2-Dichloroethene Concentration: 69.61 ug/l

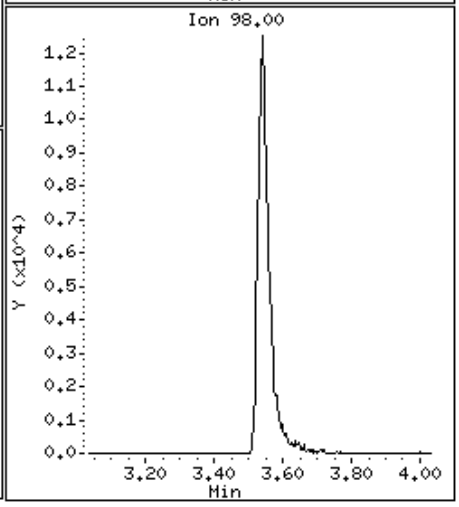


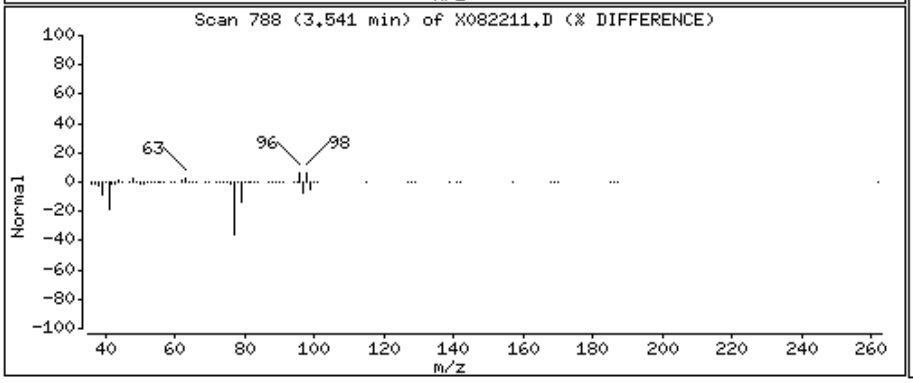












Data File: \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082211.D

Date : 22-AUG-2022 13:51

Client ID: HS22080927-01

Instrument: voa6.i

Sample Info: HS22080927-01;HS22080927-01;;;

Purge Volume: 5.0

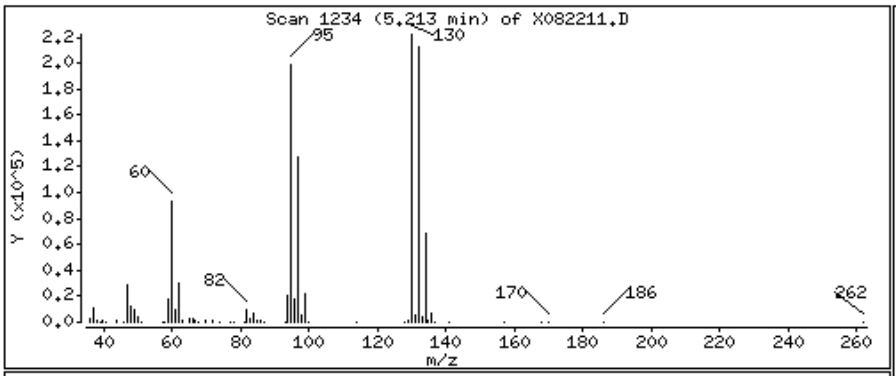
Operator: PC

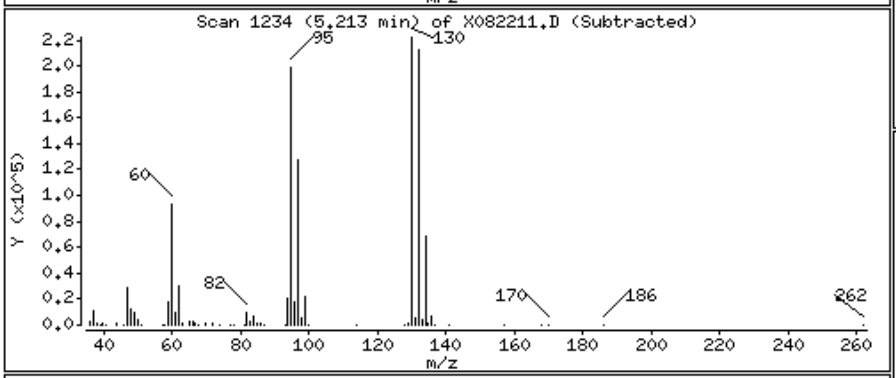
Column phase: DB624

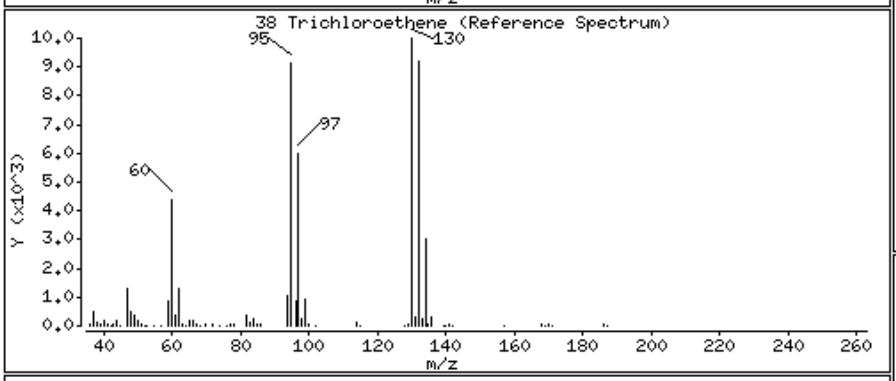
Column diameter: 0.18

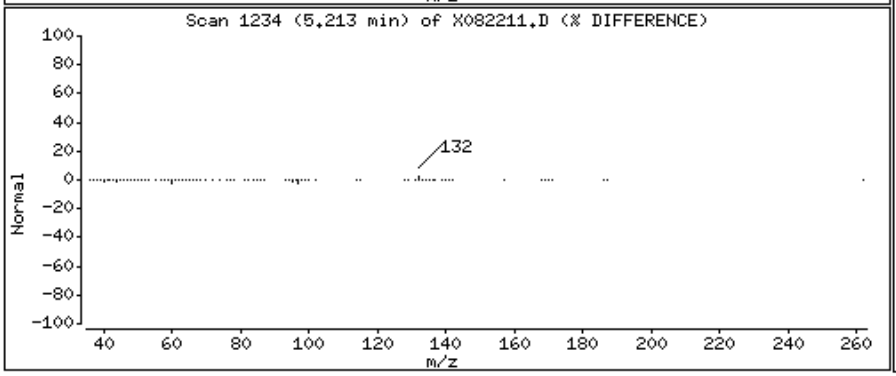
38 Trichloroethene

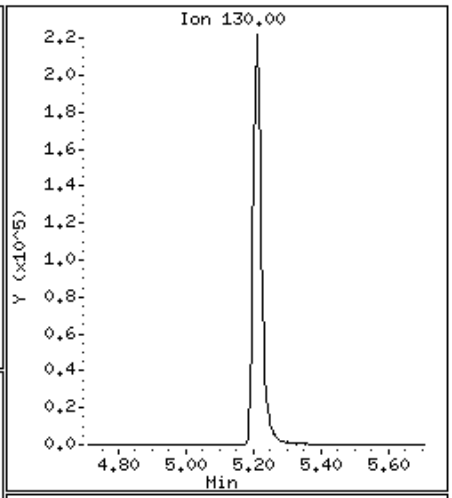
Concentration: 632.84 ug/l

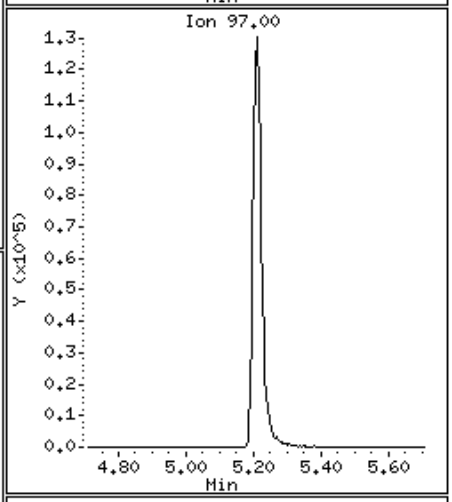


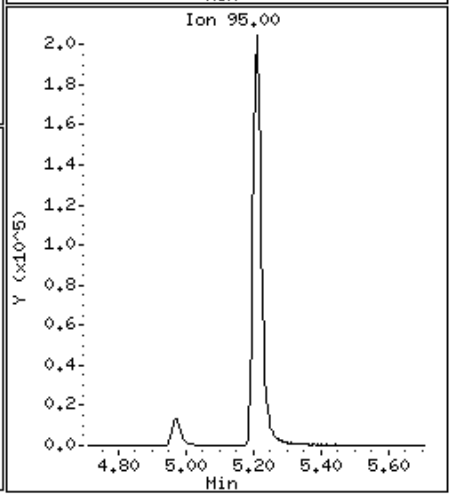












Data File : \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082211.D
Inj Date : 22-AUG-2022 13:51
InstruID : voa6.i
LabSampID : HS22080927-01

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082212.D Page 1
Report Date: 08-Sep-2022 12:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082212.D
Lab Smp Id: HS22080927-02 Client Smp ID: HS22080927-02
Inj Date : 22-AUG-2022 14:12
Operator : PC Inst ID: voa6.i
Smp Info : HS22080927-02;HS22080927-02;;;
Misc Info : HS22052000V6;WATER;0;10;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220822.b\8260W.m
Meth Date : 08-Sep-2022 12:30 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 12
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.189	4.189	(1.000)	594511	50.0000	
* 36 1,4-Difluorobenzene	114	4.969	4.969	(1.000)	861058	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	757305	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.666	9.666	(1.000)	325498	50.0000	
$ 30 Dibromofluoromethane	113	4.106	4.103	(0.980)	272416	48.5366	48.53
$ 35 1,2-Dichloroethane-d4	65	4.477	4.477	(1.069)	301440	49.0539	49.05
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1010667	53.4888	53.48
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	323280	47.8010	47.80
33 1,2-Dichloroethane	62	4.567	4.560	(0.919)	6578	0.87107	8.71(a)
27 cis-1,2-Dichloroethene	96	3.537	3.533	(0.844)	42254	7.14892	71.48
38 Trichloroethene	130	5.208	5.208	(1.048)	393510	65.1062	651.06

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01140007

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082212.D

Date : 22-AUG-2022 14:12

Client ID: HS22080927-02

Instrument: voa6.i

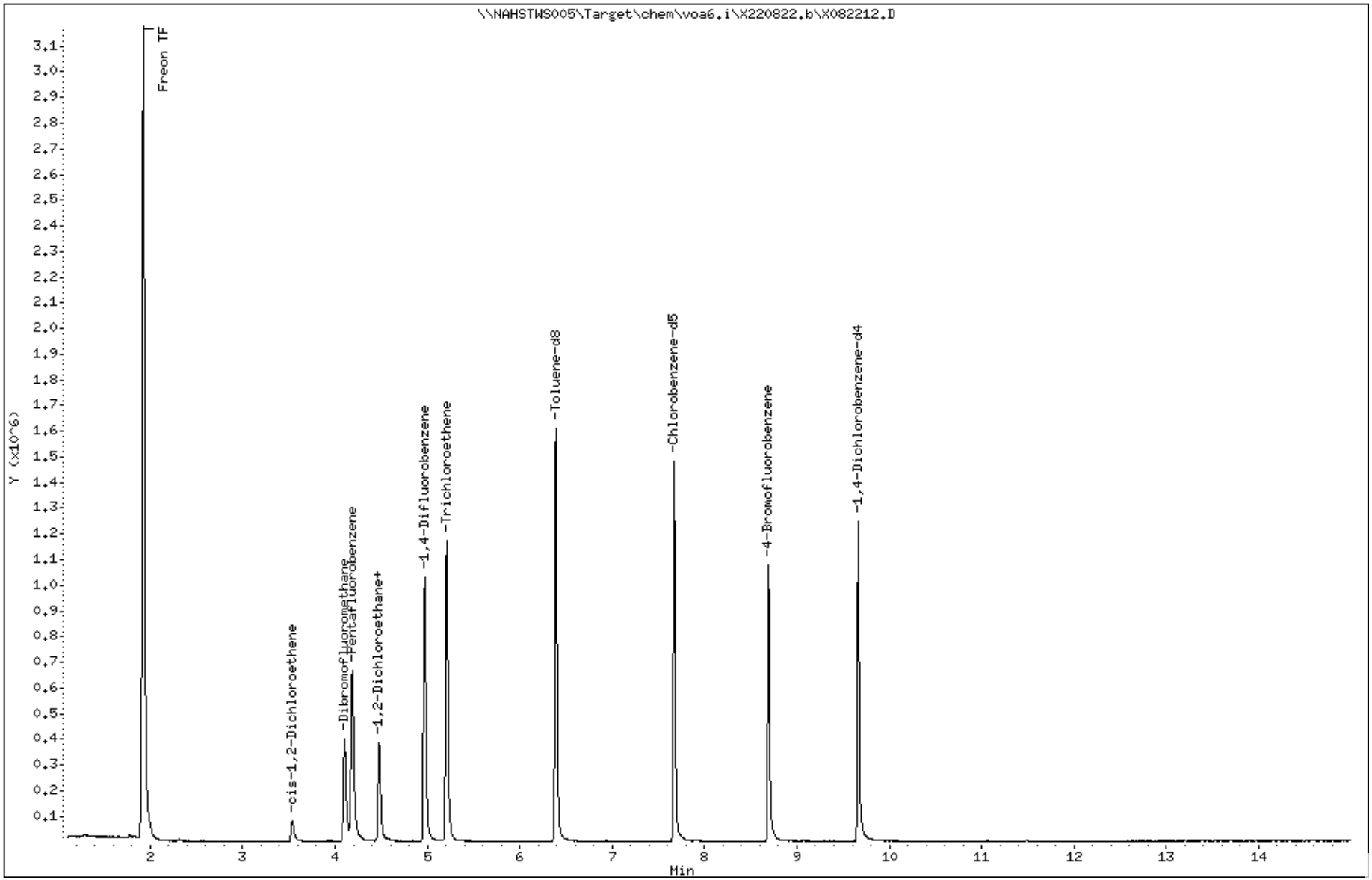
Sample Info: HS22080927-02;HS22080927-02;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082212.D

Date : 22-AUG-2022 14:12

Client ID: HS22080927-02

Instrument: voa6.i

Sample Info: HS22080927-02;HS22080927-02;;;

Purge Volume: 5.0

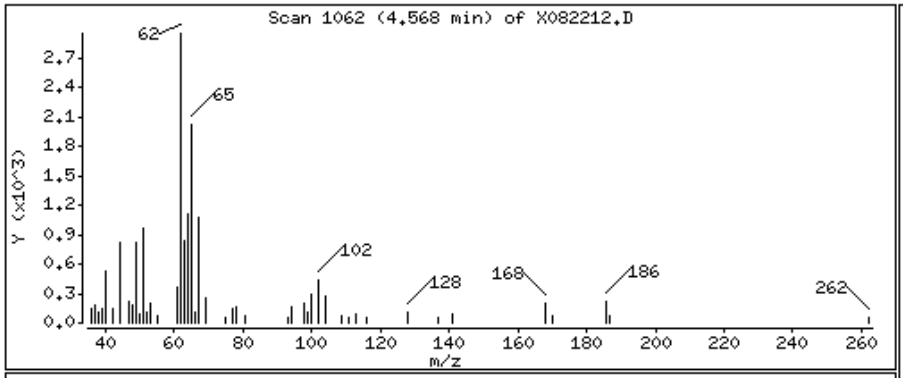
Operator: PC

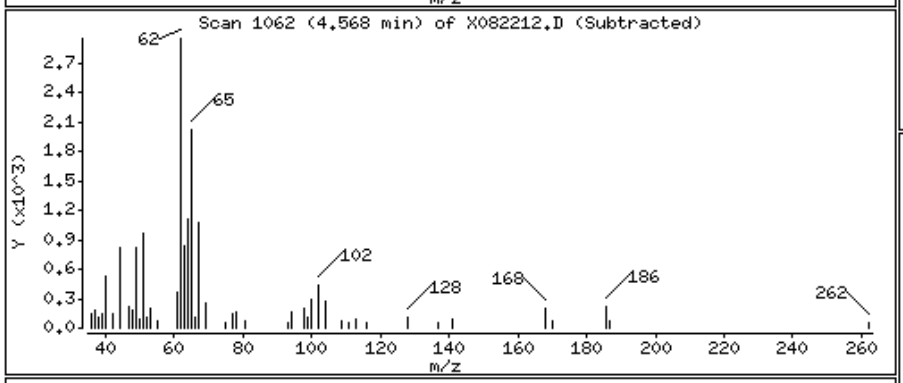
Column phase: DB624

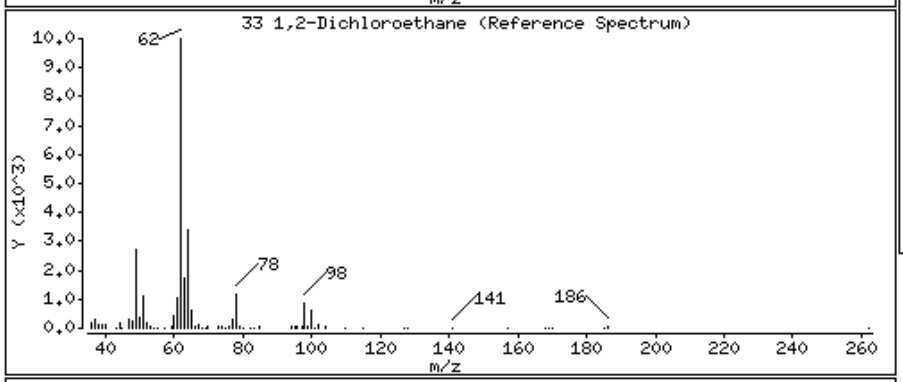
Column diameter: 0.18

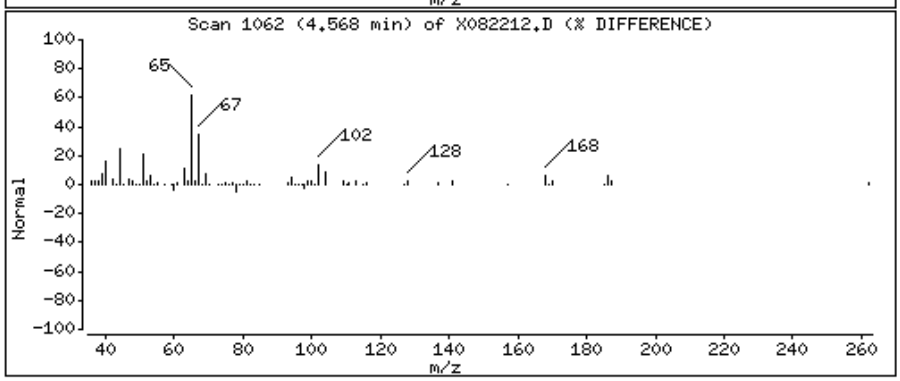
33 1,2-Dichloroethane

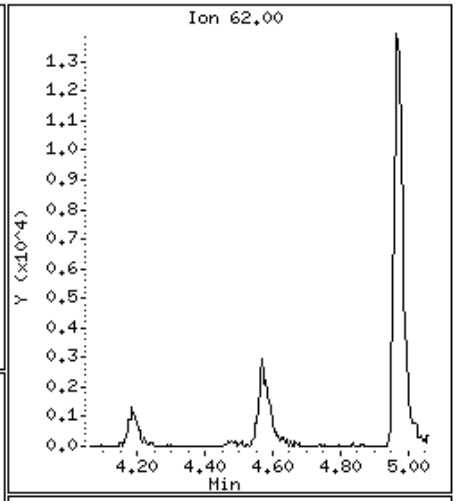
Concentration: 8.71 ug/l

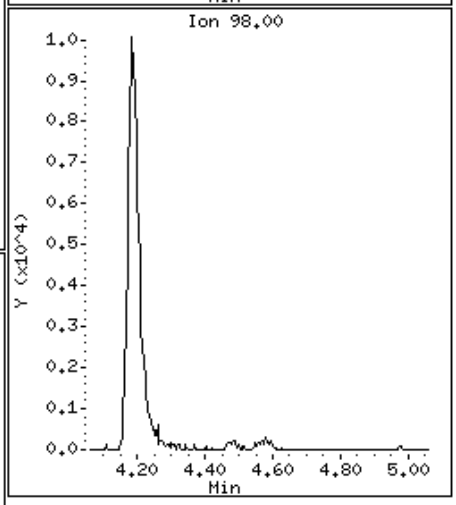












Data File: \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082212.D

Date : 22-AUG-2022 14:12

Client ID: HS22080927-02

Instrument: voa6.i

Sample Info: HS22080927-02;HS22080927-02;;;

Purge Volume: 5.0

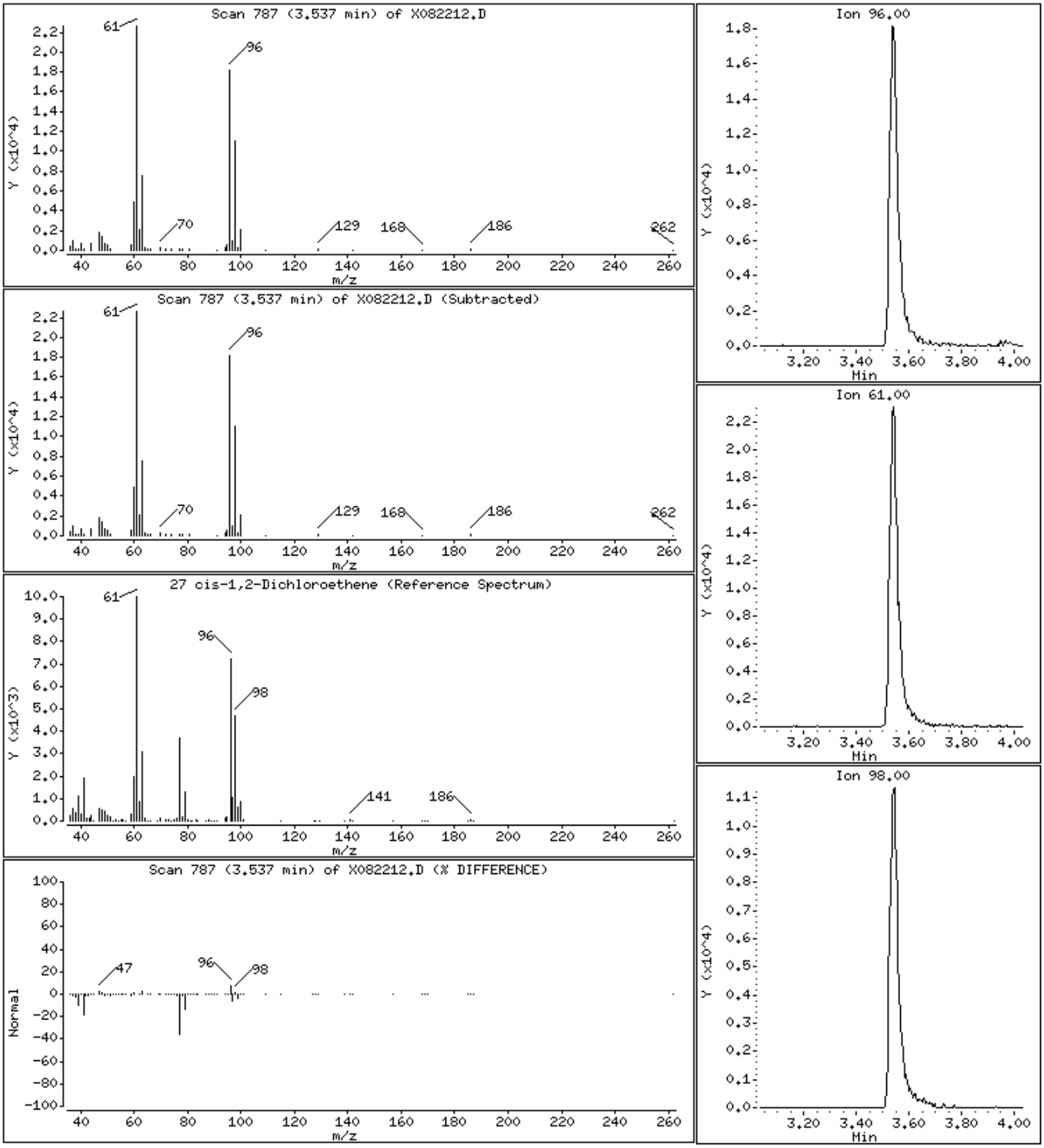
Operator: PC

Column phase: DB624

Column diameter: 0.18

27 cis-1,2-Dichloroethene

Concentration: 71.48 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082212.D

Date : 22-AUG-2022 14:12

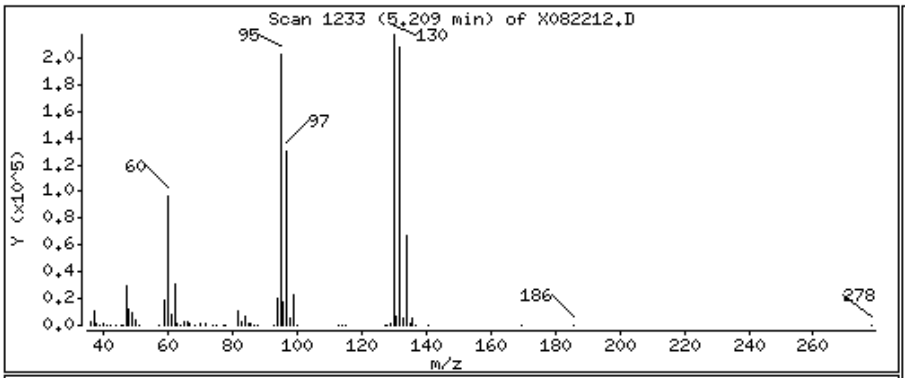
Client ID: HS22080927-02 Instrument: voa6.i

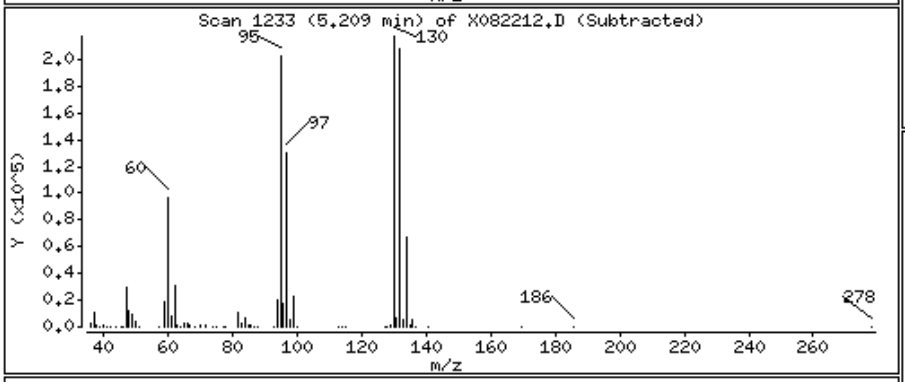
Sample Info: HS22080927-02;HS22080927-02;;;

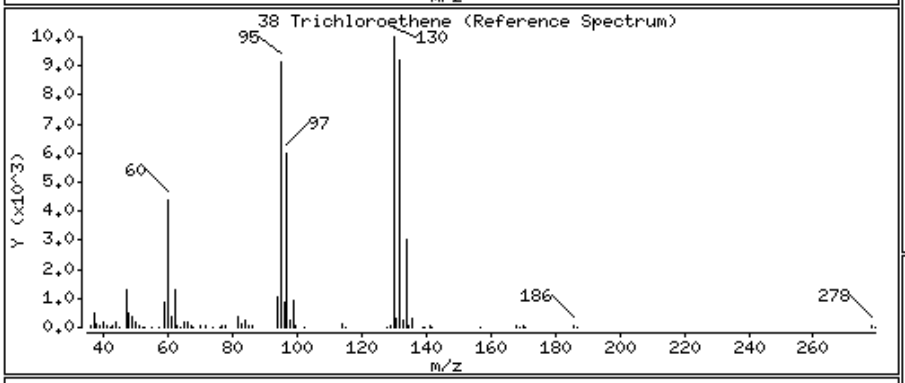
Purge Volume: 5.0 Operator: PC

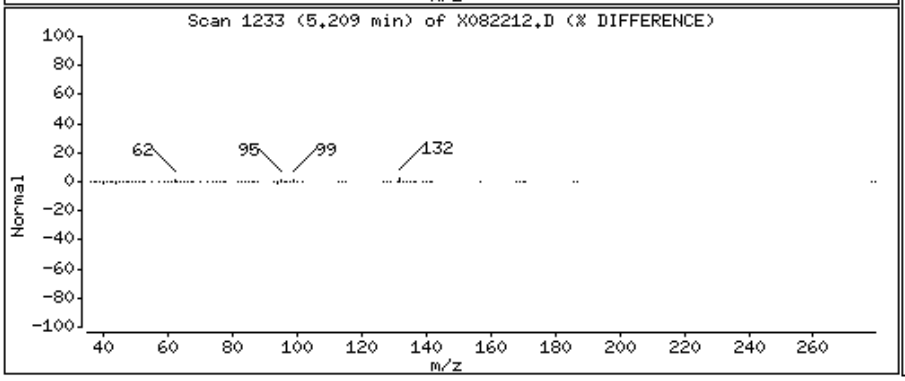
Column phase: DB624 Column diameter: 0.18

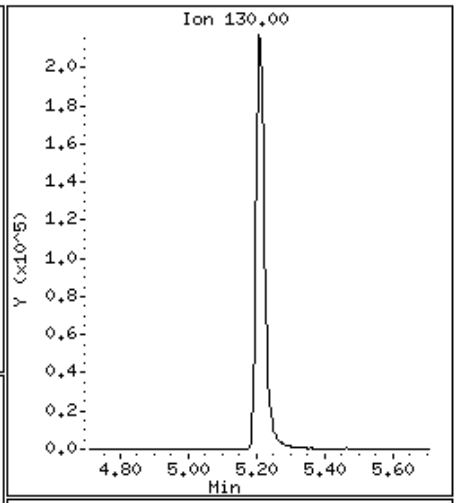
38 Trichloroethene Concentration: 651.06 ug/l

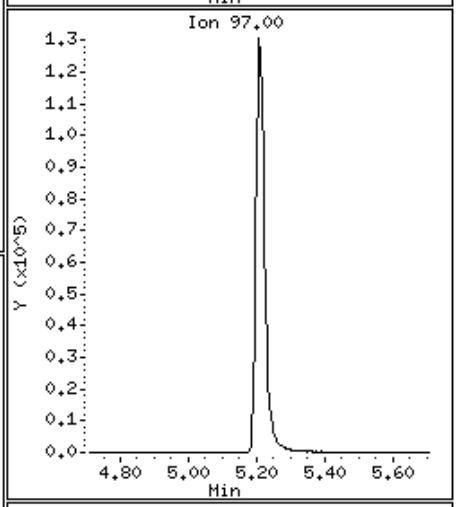


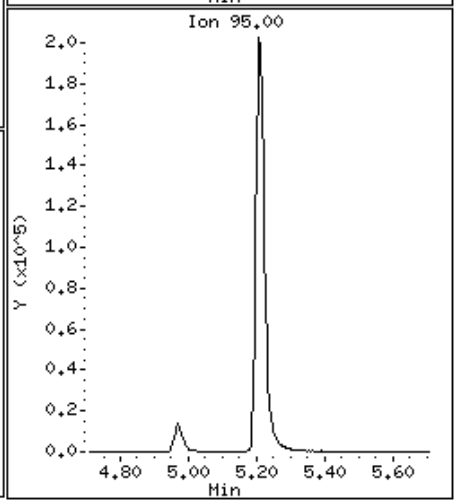












Data File : \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082212.D
Inj Date : 22-AUG-2022 14:12
InstruID : voa6.i
LabSampID : HS22080927-02

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082216.D Page 1
Report Date: 08-Sep-2022 12:42

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082216.D
Lab Smp Id: HS22081026-01MS Client Smp ID: HS22081026-01MS
Inj Date : 22-AUG-2022 15:36
Operator : PC Inst ID: voa6.i
Smp Info : HS22081026-01MS;HS22081026-01MS;3;;MS
Misc Info : HS22052000V6;WATER;0;50;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220822.b\8260W.m
Meth Date : 08-Sep-2022 12:31 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 15 QC Sample: MS
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	50.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.185	4.189	(1.000)	623739	50.0000	
* 36 1,4-Difluorobenzene	114	4.969	4.969	(1.000)	894297	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	803174	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	378941	50.0000	
$ 30 Dibromofluoromethane	113	4.103	4.103	(0.980)	282260	47.9249	47.92
$ 35 1,2-Dichloroethane-d4	65	4.477	4.477	(1.070)	306496	47.5294	47.52
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1052845	52.5388	52.53
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	359645	50.1814	50.18
60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	118570	21.0127	1050.63
31 1,1,1-Trichloroethane	97	4.088	4.088	(0.977)	175349	19.8170	990.84
68 1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	111585	20.9663	1048.31
53 1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	81910	19.8351	991.75
22 1,1-Dichloroethane	63	2.929	2.929	(0.700)	176301	18.3599	917.99
11 1,1-Dichloroethene	96	1.921	1.925	(0.459)	92731	17.8098	890.49
32 1,1-Dichloropropene	75	4.286	4.286	(0.863)	150928	20.9111	1045.55
93 1,2,3-Trichlorobenzene	180	11.746	11.746	(1.216)	35601	18.0720	903.60
71 1,2,3-Trichloropropane	75	8.867	8.867	(0.918)	90459	22.0444	1102.22(M)
90 1,2,4-Trichlorobenzene	180	11.341	11.341	(1.174)	67599	19.5860	979.29
79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	411555	22.6419	1132.09
89 1,2-Dibromo-3-Chloropropane	155	10.663	10.659	(1.104)	7499	19.4373	971.86

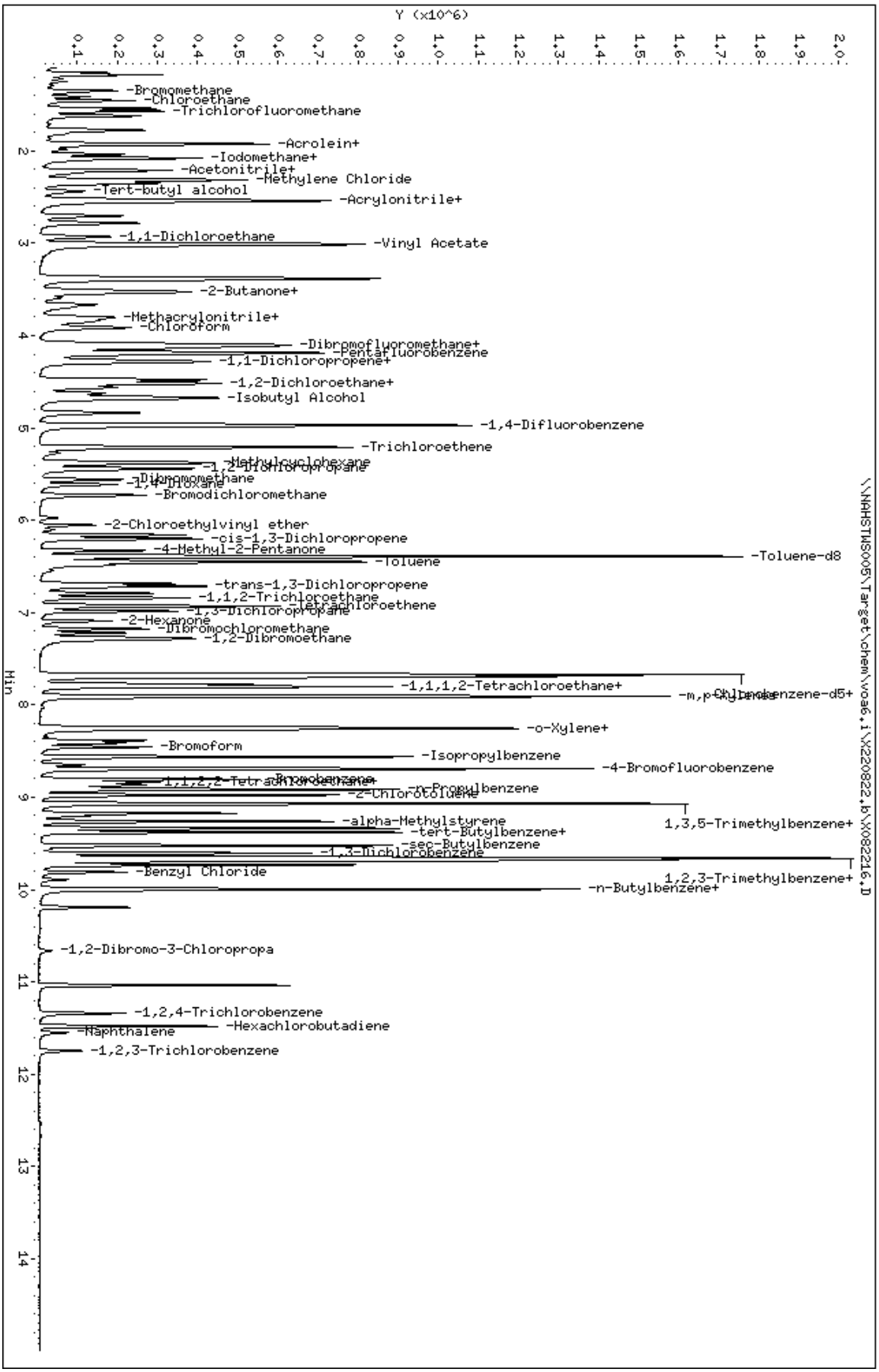
57	1,2-Dibromoethane	107	7.263	7.263 (0.947)	103809	19.8258	991.28
88	1,2-Dichlorobenzene	146	9.995	9.992 (1.035)	209279	22.0715	1103.57

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082216.D Page 2
Report Date: 08-Sep-2022 12:42

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
33	1,2-Dichloroethane	62	4.564	4.560	(0.919)	155254	19.7949	989.74
42	1,2-Dichloropropane	63	5.441	5.441	(1.095)	106570	19.3605	968.02
75	1,3,5-Trimethylbenzene	105	9.070	9.066	(0.939)	417586	22.6868	1134.33
83	1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	231515	22.0200	1100.99
54	1,3-Dichloropropane	76	6.982	6.985	(0.910)	165828	19.7415	987.07
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	245770	22.0187	1100.93
26	2,2-Dichloropropane	77	3.518	3.518	(0.841)	172654	20.0972	1004.85
24	2-Butanone	43	3.589	3.582	(0.858)	49219	31.4548	1572.74
76	2-Chlorotoluene	91	8.976	8.976	(0.929)	341912	21.0500	1052.50
52	2-Hexanone	43	7.090	7.090	(0.924)	101874	40.3377	2016.88
77	4-Chlorotoluene	91	9.073	9.073	(0.939)	400928	22.1142	1105.71
82	p-Isopropyltoluene	119	9.651	9.651	(0.999)	439442	23.7744	1188.72
45	4-Methyl-2-Pentanone	43	6.329	6.326	(0.825)	163840	41.8647	2093.23
10	Acetone	43	1.985	1.981	(0.474)	44609	29.9950	1499.74
37	Benzene	78	4.515	4.515	(0.909)	410562	19.3740	968.69
74	Bromobenzene	156	8.807	8.807	(0.912)	140267	21.6749	1083.74
29	Bromochloromethane	128	3.803	3.799	(0.909)	60104	17.0904	854.52
39	Bromodichloromethane	83	5.730	5.729	(1.153)	148771	19.6978	984.88
66	Bromoform	173	8.414	8.410	(1.097)	72577	19.4135	970.67
6	Bromomethane	94	1.347	1.347	(0.322)	81841	18.3621	918.10
19	Carbon Disulfide	76	2.078	2.078	(0.497)	484767	35.1680	1758.40
34	Carbon Tetrachloride	117	4.271	4.271	(0.860)	153892	19.9494	997.46
59	Chlorobenzene	112	7.698	7.694	(1.003)	323681	21.2542	1062.71
7	Chloroethane	64	1.411	1.411	(0.337)	69142	17.2827	864.13
28	Chloroform	83	3.911	3.911	(0.935)	199426	18.9552	947.76
3	Chloromethane	50	1.089	1.085	(0.260)	92184	15.9984	799.91
27	cis-1,2-Dichloroethene	96	3.533	3.533	(0.844)	117908	19.0140	950.69
46	cis-1,3-Dichloropropene	75	6.157	6.157	(1.239)	180771	19.4851	974.25
55	Dibromochloromethane	129	7.177	7.176	(0.936)	118684	19.9091	995.45
44	Dibromomethane	93	5.557	5.557	(1.118)	69565	18.8358	941.79
2	Dichlorodifluoromethane	85	0.980	0.980	(0.234)	71448	11.8921	594.60
61	Ethylbenzene	106	7.803	7.802	(1.017)	166363	21.6248	1081.24
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	73542	23.0721	1153.60
67	Isopropylbenzene	105	8.564	8.563	(1.116)	516884	22.3425	1117.12
62	m,p-Xylenes	106	7.907	7.907	(1.031)	414818	43.3501	2167.50
17	Methylene Chloride	84	2.315	2.311	(0.553)	107302	18.1618	908.08
87	n-Butylbenzene	91	9.995	9.995	(1.035)	377161	24.5567	1227.83
73	n-Propylbenzene	91	8.916	8.912	(0.923)	595701	23.8295	1191.47
92	Naphthalene	128	11.551	11.547	(1.196)	64672	16.7497	837.48
63	o-Xylene	106	8.245	8.245	(1.075)	195512	21.0172	1050.86
81	sec-Butylbenzene	105	9.523	9.523	(0.986)	508991	23.8268	1191.34
64	Styrene	104	8.264	8.260	(1.077)	321936	21.0154	1050.77
78	tert-Butylbenzene	119	9.336	9.339	(0.966)	364031	23.3348	1166.74
56	Tetrachloroethene	164	6.929	6.929	(0.903)	108144	20.7642	1038.21
50	Toluene	91	6.449	6.449	(0.841)	466039	20.6417	1032.08
20	trans-1,2-Dichloroethene	96	2.539	2.536	(0.607)	103305	18.8268	941.34
51	trans-1,3-Dichloropropene	75	6.685	6.685	(1.346)	150334	19.5666	978.32
38	Trichloroethene	130	5.212	5.208	(1.049)	256406	40.8456	2042.28
8	Trichlorofluoromethane	101	1.569	1.568	(0.375)	183840	18.7171	935.85
5	Vinyl Chloride	62	1.152	1.152	(0.275)	106077	16.2186	810.92

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082216.D
Date : 22-AUG-2022 15:36
Client ID: HS22081026-01MS
Sample Info: HS22081026-01MS;HS22081026-01MS;3;;MS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

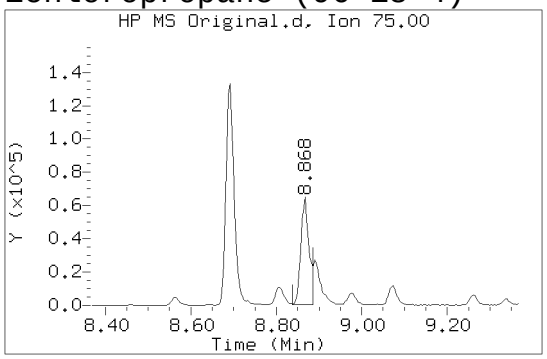
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082216.D
Inj Date : 22-AUG-2022 15:36
InstruID : voa6.i
LabSampID : HS22081026-01MS

1,2,3-Trichloropropane (96-18-4)

Reason Code:

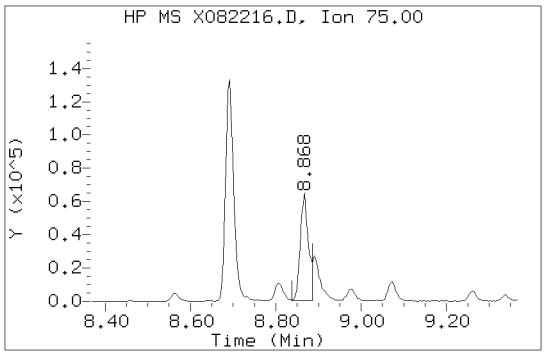
BEFORE

MASS
75
AREA
90459
HEIGHT
64771
08-Sep-2022
12:42
linh
pham



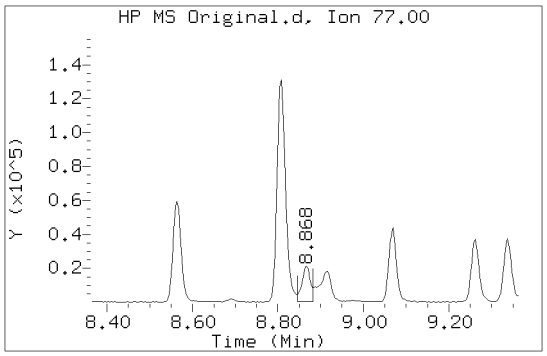
AFTER

MASS
75
AREA
90459
HEIGHT
64771
08-Sep-2022
12:42
linh
pham



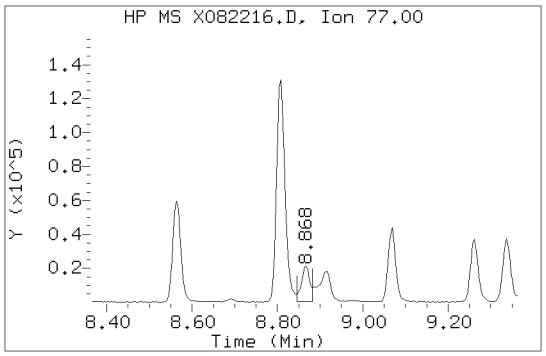
BEFORE

MASS
77
AREA
30868
HEIGHT
20927
08-Sep-2022
12:42
linh
pham



AFTER

MASS
77
AREA
30868
HEIGHT
20927
08-Sep-2022
12:42
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082217.D Page 1
Report Date: 08-Sep-2022 12:42

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082217.D
Lab Smp Id: HS22081026-01MSD Client Smp ID: HS22081026-01MSD
Inj Date : 22-AUG-2022 15:57
Operator : PC Inst ID: voa6.i
Smp Info : HS22081026-01MSD;HS22081026-01MSD;3;;MSD
Misc Info : HS22052000V6;WATER;0;50;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220822.b\8260W.m
Meth Date : 08-Sep-2022 12:31 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 15 QC Sample: MSD
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	50.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

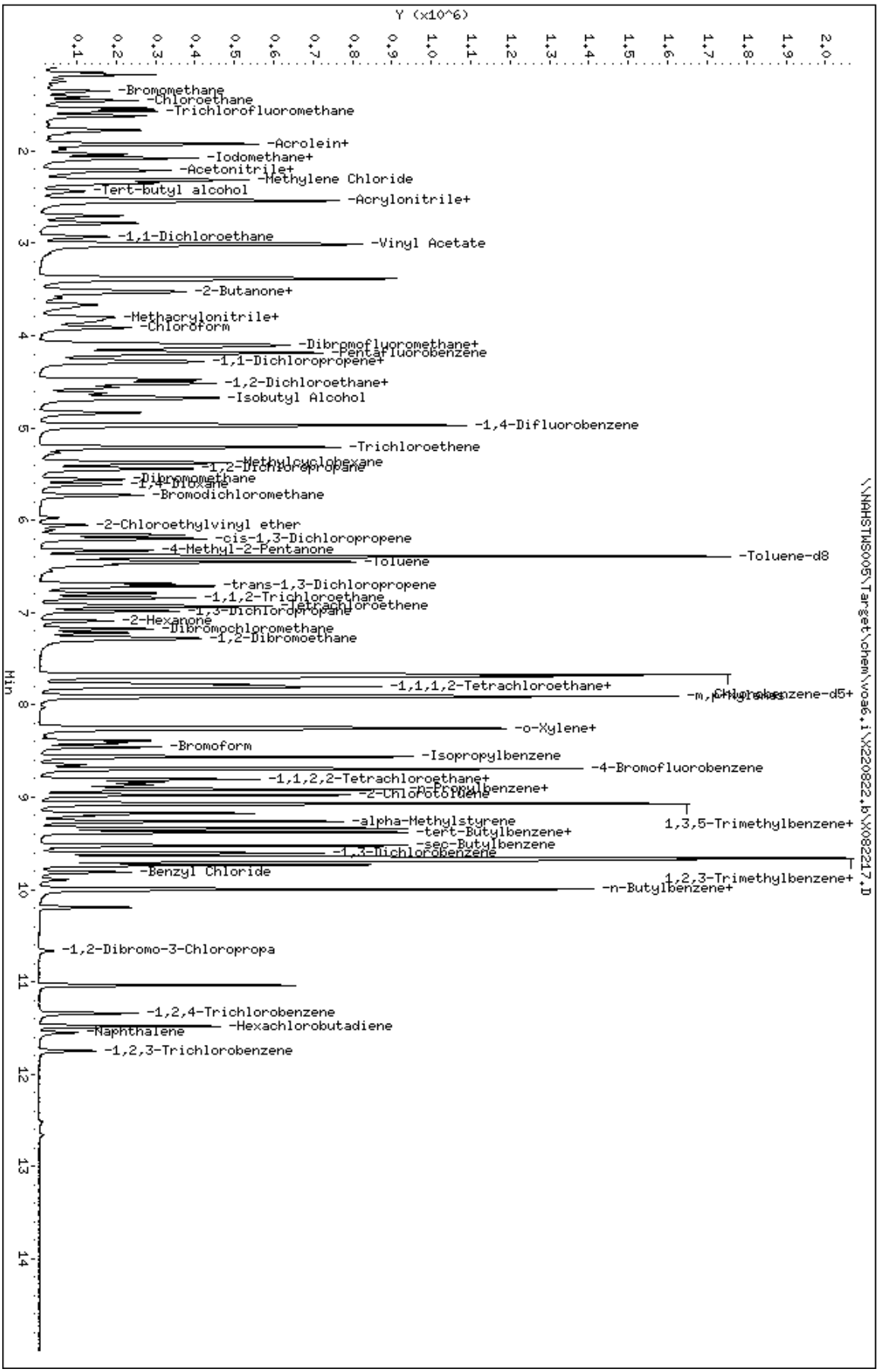
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.189	4.189	(1.000)	625419	50.0000	
* 36 1,4-Difluorobenzene	114	4.969	4.969	(1.000)	894912	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	809879	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.666	9.662	(1.000)	397961	50.0000	
$ 30 Dibromofluoromethane	113	4.103	4.103	(0.979)	286079	48.4507	48.45
$ 35 1,2-Dichloroethane-d4	65	4.474	4.477	(1.068)	308918	47.7780	47.77
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1061107	52.5127	52.51
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	364079	50.3827	50.38
60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	119104	20.9326	1046.63
31 1,1,1-Trichloroethane	97	4.088	4.088	(0.976)	173390	19.5430	977.14
68 1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	117313	20.9890	1049.45
53 1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	84447	20.2802	1014.00
22 1,1-Dichloroethane	63	2.929	2.929	(0.699)	178674	18.5571	927.85
11 1,1-Dichloroethene	96	1.921	1.925	(0.459)	88981	17.0437	852.18
32 1,1-Dichloropropene	75	4.286	4.286	(0.863)	147879	20.4746	1023.72
93 1,2,3-Trichlorobenzene	180	11.746	11.746	(1.215)	45458	21.9728	1098.64
71 1,2,3-Trichloropropane	75	8.863	8.867	(0.917)	88759	20.5964	1029.81(M)
90 1,2,4-Trichlorobenzene	180	11.341	11.341	(1.173)	78845	21.7525	1087.62
79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	429601	22.5051	1125.25
89 1,2-Dibromo-3-Chloropropane	155	10.659	10.659	(1.103)	8735	21.4788	1073.93

57	1,2-Dibromoethane	107	7.263	7.263 (0.947)	105717	20.0230	1001.14
88	1,2-Dichlorobenzene	146	9.996	9.992 (1.034)	224267	22.5217	1126.08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
33	1,2-Dichloroethane	62	4.560	4.560	(0.918)	158294	20.1686	1008.43
42	1,2-Dichloropropane	63	5.441	5.441	(1.095)	106560	19.3454	967.26
75	1,3,5-Trimethylbenzene	105	9.070	9.066	(0.938)	431273	22.3105	1115.52
83	1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	243388	22.0428	1102.14
54	1,3-Dichloropropane	76	6.985	6.985	(0.911)	167231	19.7437	987.18
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	254648	21.7237	1086.18
26	2,2-Dichloropropane	77	3.518	3.518	(0.840)	169192	19.6357	981.78
24	2-Butanone	43	3.593	3.582	(0.858)	55734	35.5227	1776.13
76	2-Chlorotoluene	91	8.976	8.976	(0.929)	361703	21.2042	1060.20
52	2-Hexanone	43	7.090	7.090	(0.924)	107509	42.2165	2110.82
77	4-Chlorotoluene	91	9.073	9.073	(0.939)	417105	21.9070	1095.34
82	p-Isopropyltoluene	119	9.651	9.651	(0.998)	453999	23.3881	1169.40
45	4-Methyl-2-Pentanone	43	6.329	6.326	(0.825)	170727	43.2633	2163.16
10	Acetone	43	1.985	1.981	(0.474)	45589	30.6870	1534.34
37	Benzene	78	4.519	4.515	(0.909)	400586	18.8902	944.51
74	Bromobenzene	156	8.807	8.807	(0.911)	142476	20.9640	1048.19
29	Bromochloromethane	128	3.803	3.799	(0.908)	62356	17.6832	884.15
39	Bromodichloromethane	83	5.730	5.729	(1.153)	149008	19.7156	985.78
66	Bromoform	173	8.414	8.410	(1.097)	75489	19.9864	999.32
6	Bromomethane	94	1.347	1.347	(0.322)	74748	16.6034	830.17
19	Carbon Disulfide	76	2.078	2.078	(0.496)	471638	34.1237	1706.18
34	Carbon Tetrachloride	117	4.268	4.271	(0.859)	153945	19.9426	997.12
59	Chlorobenzene	112	7.698	7.694	(1.003)	322763	21.0185	1050.92
7	Chloroethane	64	1.411	1.411	(0.337)	68093	16.9747	848.73
28	Chloroform	83	3.911	3.911	(0.934)	198942	18.8584	942.92
3	Chloromethane	50	1.085	1.085	(0.259)	88080	15.2475	762.37
27	cis-1,2-Dichloroethene	96	3.537	3.533	(0.844)	116590	18.7509	937.54
46	cis-1,3-Dichloropropene	75	6.161	6.157	(1.240)	184246	19.8460	992.30
55	Dibromochloromethane	129	7.177	7.176	(0.936)	121292	20.1781	1008.90
44	Dibromomethane	93	5.557	5.557	(1.118)	71141	19.2493	962.46
2	Dichlorodifluoromethane	85	0.980	0.980	(0.234)	69171	11.4762	573.80
61	Ethylbenzene	106	7.803	7.802	(1.017)	170549	21.9854	1099.26
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	76832	22.9522	1147.61
67	Isopropylbenzene	105	8.564	8.563	(1.116)	532873	22.8430	1142.14
62	m,p-Xylenes	106	7.908	7.907	(1.031)	423183	43.8582	2192.90
17	Methylene Chloride	84	2.311	2.311	(0.552)	108816	18.3785	918.92
87	n-Butylbenzene	91	9.996	9.995	(1.034)	392117	24.3103	1215.51
73	n-Propylbenzene	91	8.916	8.912	(0.922)	612850	23.3438	1167.19
92	Naphthalene	128	11.551	11.547	(1.195)	85943	21.1950	1059.74
63	o-Xylene	106	8.241	8.245	(1.074)	198625	21.1751	1058.75
81	sec-Butylbenzene	105	9.523	9.523	(0.985)	528329	23.5500	1177.50
64	Styrene	104	8.264	8.260	(1.077)	329377	21.3232	1066.15
78	tert-Butylbenzene	119	9.340	9.339	(0.966)	376002	22.9502	1147.51
56	Tetrachloroethene	164	6.929	6.929	(0.903)	108253	20.6131	1030.65
50	Toluene	91	6.449	6.449	(0.841)	465094	20.4293	1021.46
20	trans-1,2-Dichloroethene	96	2.539	2.536	(0.606)	101163	18.3869	919.34
51	trans-1,3-Dichloropropene	75	6.685	6.685	(1.346)	154361	20.0769	1003.84
38	Trichloroethene	130	5.212	5.208	(1.049)	251824	40.0881	2004.40
8	Trichlorofluoromethane	101	1.569	1.568	(0.375)	178631	18.1379	906.89
5	Vinyl Chloride	62	1.152	1.152	(0.275)	101528	15.4814	774.06

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082217.D
Date : 22-AUG-2022 15:57
Client ID: HS22081026-01MSD
Sample Info: HS22081026-01MSD;HS22081026-01MSD;3;;MSD
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

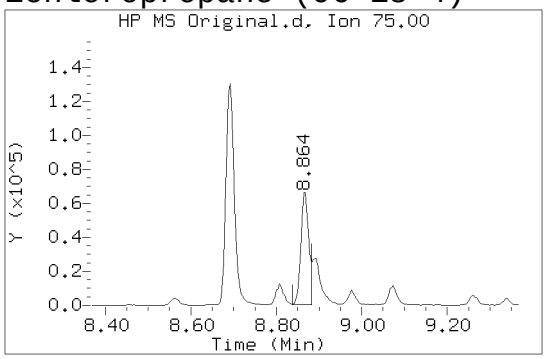
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082217.D
Inj Date : 22-AUG-2022 15:57
InstruID : voa6.i
LabSampID : HS22081026-01MSD

1,2,3-Trichloropropane (96-18-4)

Reason Code:

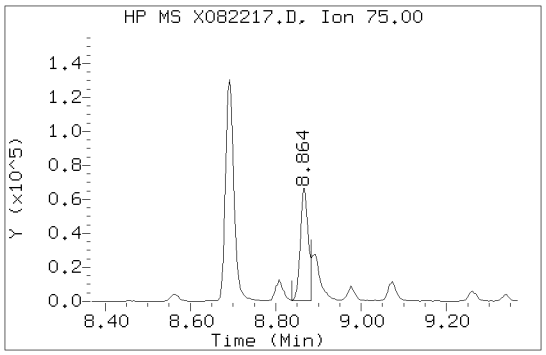
BEFORE

MASS
75
AREA
88759
HEIGHT
66030
08-Sep-2022
12:42
linh
pham



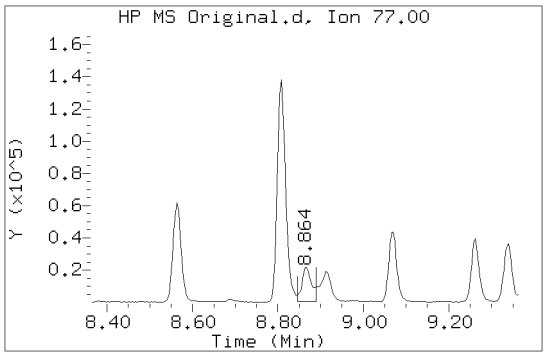
AFTER

MASS
75
AREA
88759
HEIGHT
66030
08-Sep-2022
12:42
linh
pham



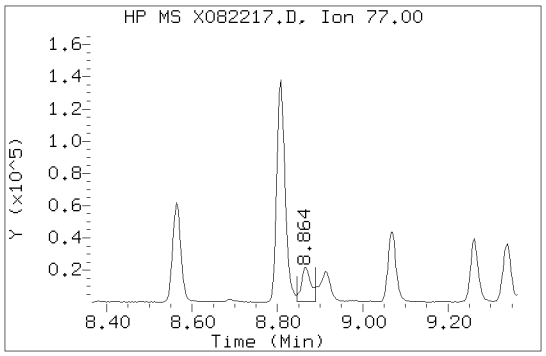
BEFORE

MASS
77
AREA
35271
HEIGHT
21316
08-Sep-2022
12:42
linh
pham



AFTER

MASS
77
AREA
35271
HEIGHT
21316
08-Sep-2022
12:42
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082218.D Page 1
Report Date: 08-Sep-2022 12:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082218.D
Lab Smp Id: HS22080927-05 Client Smp ID: HS22080927-05
Inj Date : 22-AUG-2022 16:18
Operator : PC Inst ID: voa6.i
Smp Info : HS22080927-05;HS22080927-05;;;
Misc Info : HS22052000V6;WATER;0;5;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220822.b\8260W.m
Meth Date : 08-Sep-2022 12:30 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 16
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.185	4.189	(1.000)	618168	50.0000	
* 36 1,4-Difluorobenzene	114	4.969	4.969	(1.000)	884015	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	778739	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.666	9.666	(1.000)	350013	50.0000	
$ 30 Dibromofluoromethane	113	4.106	4.103	(0.981)	277454	47.5275	47.52
$ 35 1,2-Dichloroethane-d4	65	4.477	4.477	(1.070)	307980	48.1945	48.19
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1030946	53.0603	53.06
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	332610	47.8273	47.82
11 1,1-Dichloroethene	96	1.928	1.925	(0.461)	3416	0.66199	3.30(a)
33 1,2-Dichloroethane	62	4.564	4.560	(0.919)	29858	3.85117	19.25(a)
27 cis-1,2-Dichloroethene	96	3.540	3.533	(0.846)	14061	2.28793	11.43(a)
38 Trichloroethene	130	5.208	5.208	(1.048)	358348	57.7490	288.74

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01140025

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082218.D

Date : 22-AUG-2022 16:18

Client ID: HS22080927-05

Instrument: voa6.i

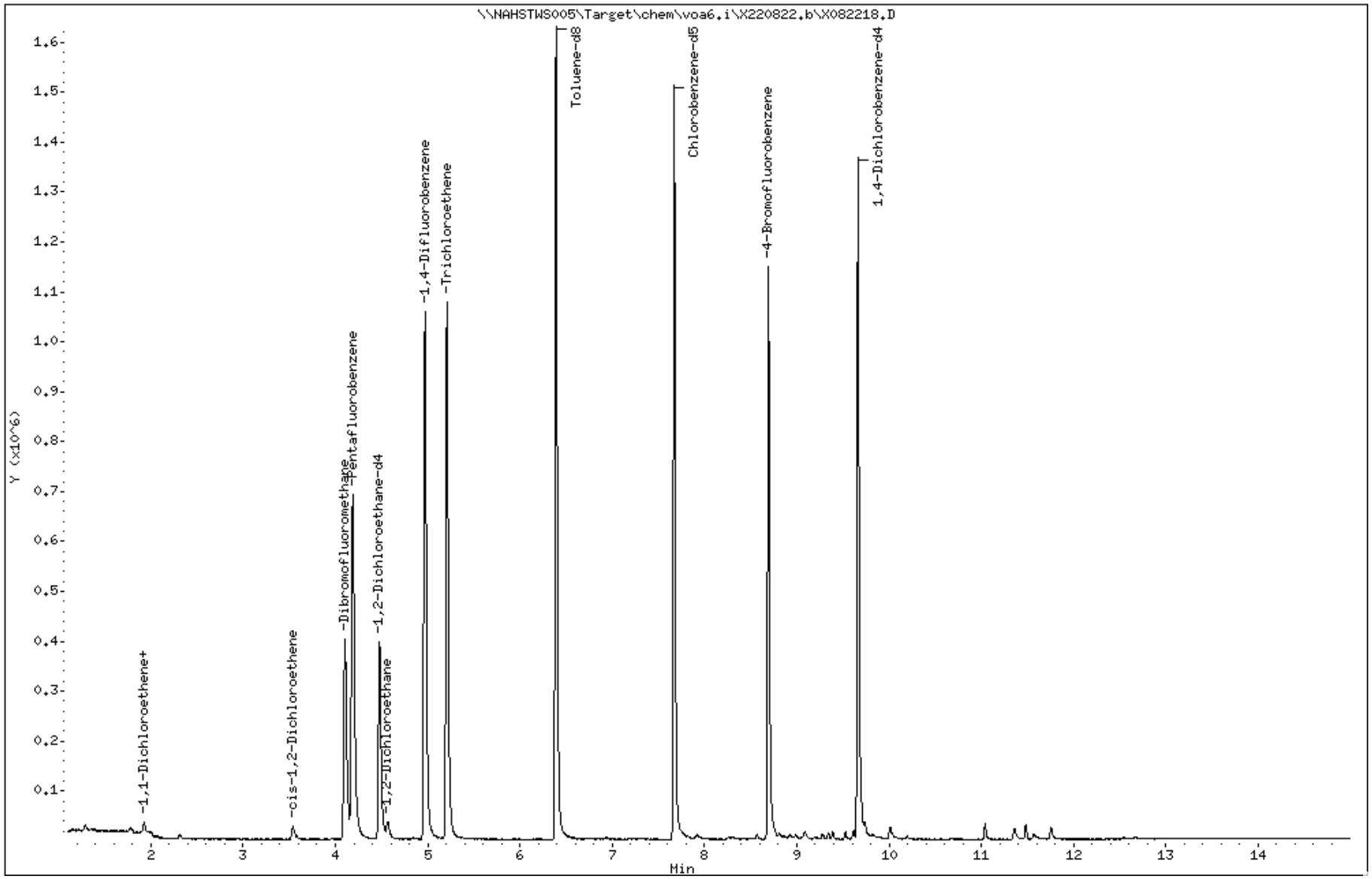
Sample Info: HS22080927-05;HS22080927-05;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082218.D Page 2

Date : 22-AUG-2022 16:18

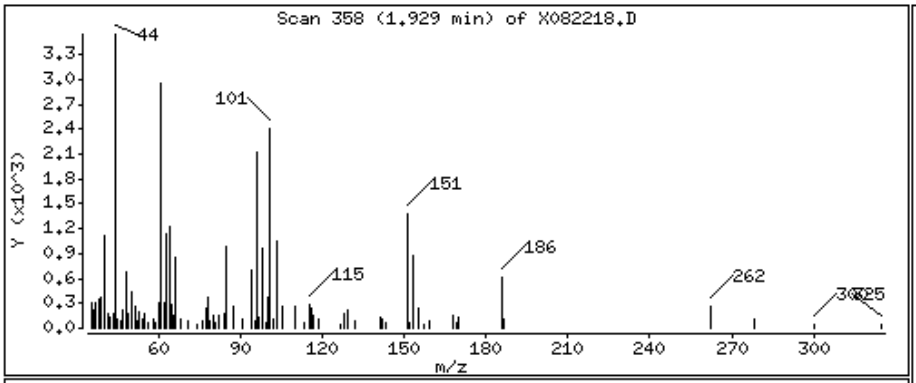
Client ID: HS22080927-05 Instrument: voa6.i

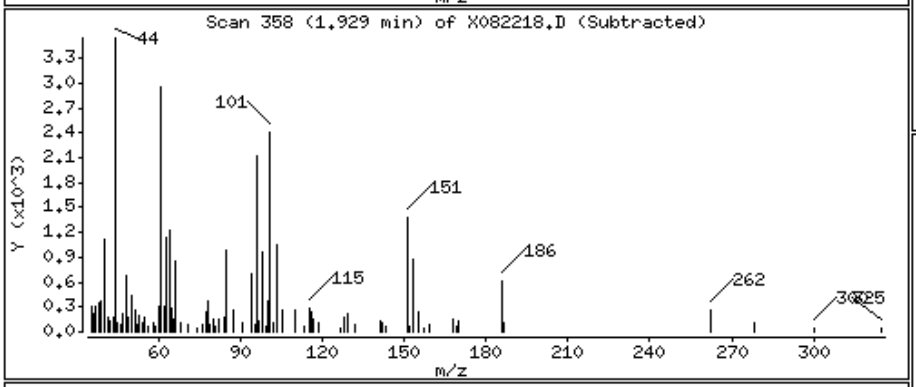
Sample Info: HS22080927-05;HS22080927-05;;;

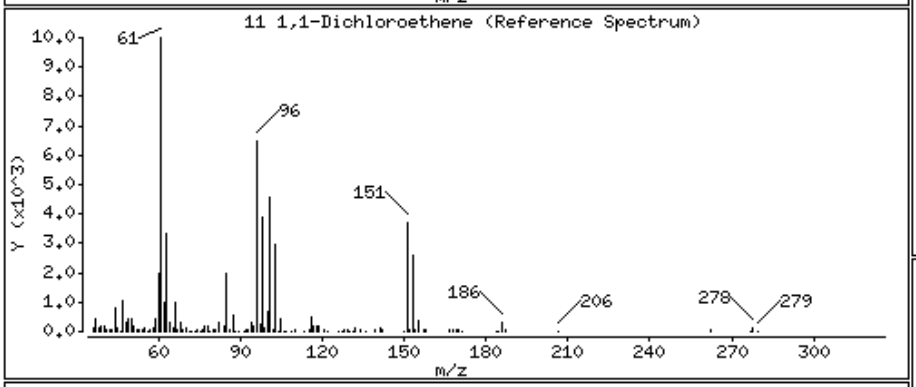
Purge Volume: 5.0 Operator: PC

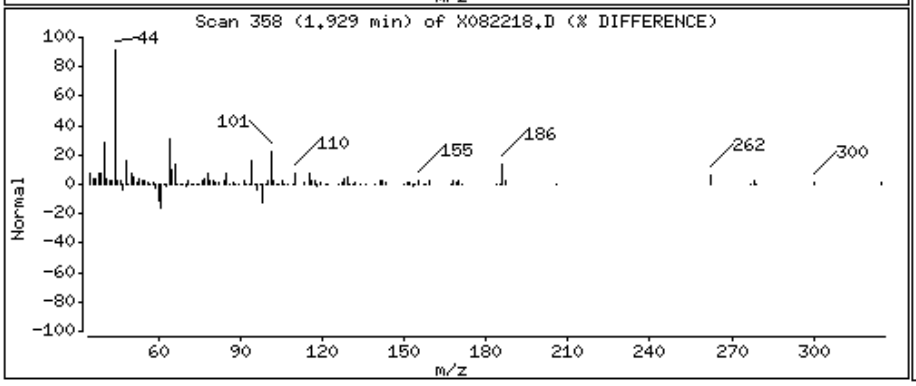
Column phase: DB624 Column diameter: 0.18

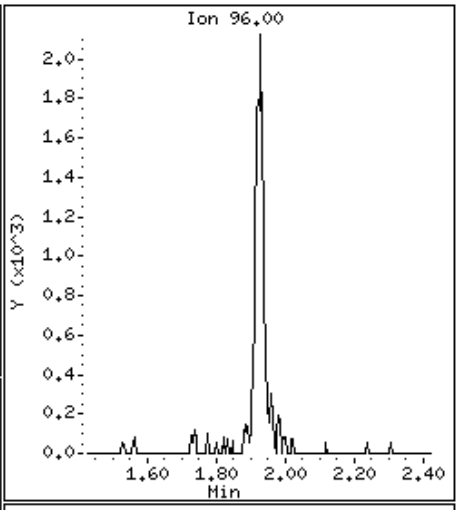
11 1,1-Dichloroethene Concentration: 3.30 ug/l

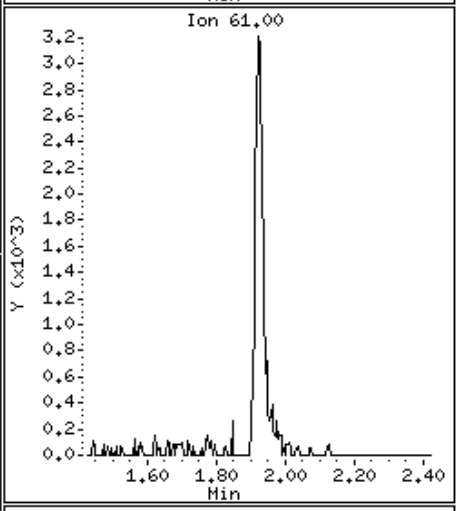


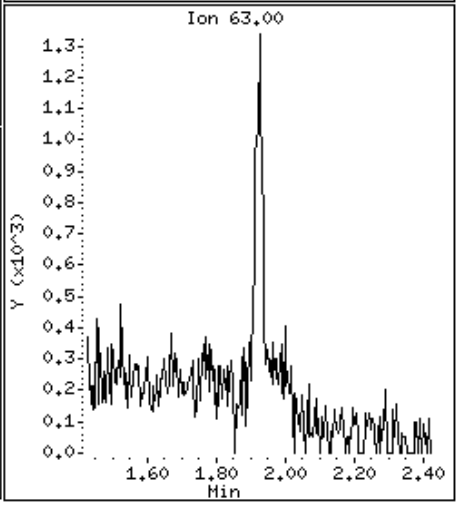












Data File: \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082218.D Page 3

Date : 22-AUG-2022 16:18

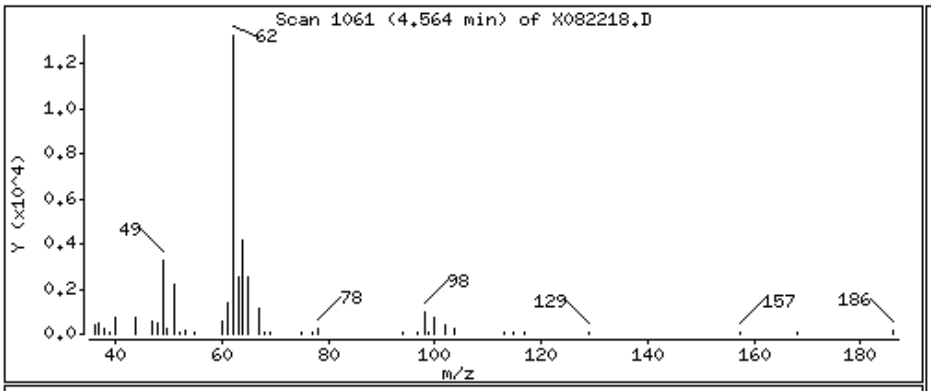
Client ID: HS22080927-05 Instrument: voa6.i

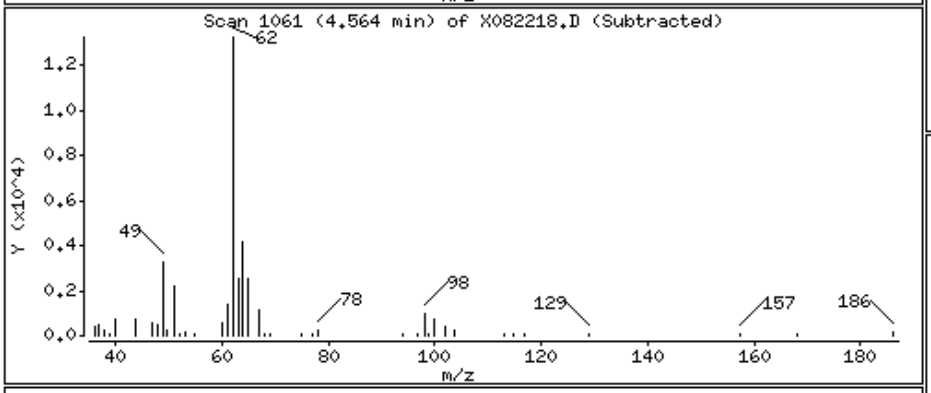
Sample Info: HS22080927-05;HS22080927-05;;;

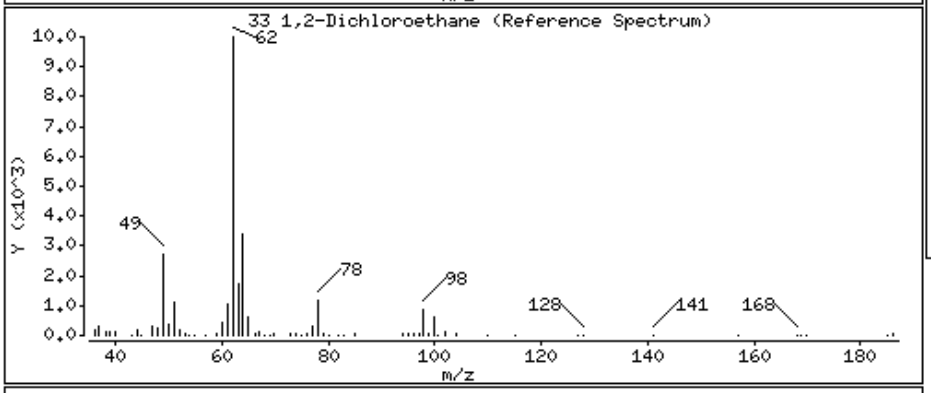
Purge Volume: 5.0 Operator: PC

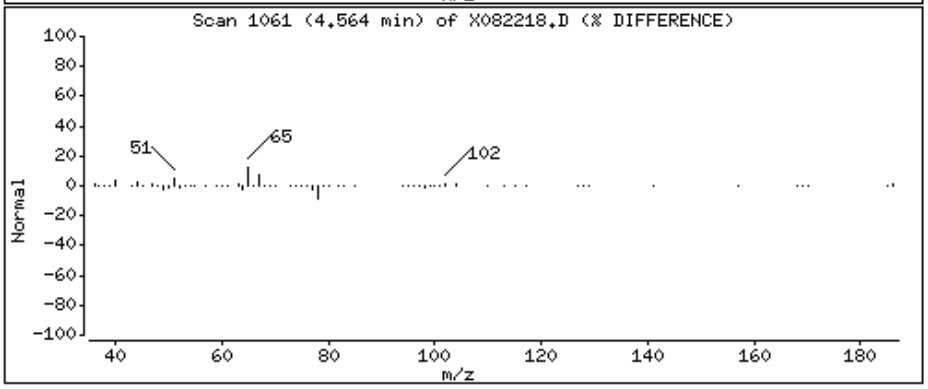
Column phase: DB624 Column diameter: 0.18

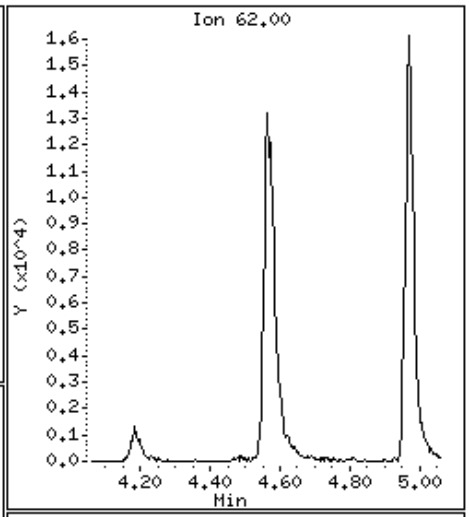
33 1,2-Dichloroethane Concentration: 19.25 ug/l

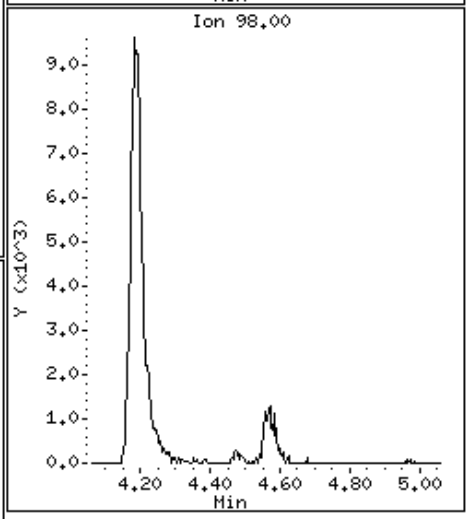












Data File: \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082218.D Page 4

Date : 22-AUG-2022 16:18

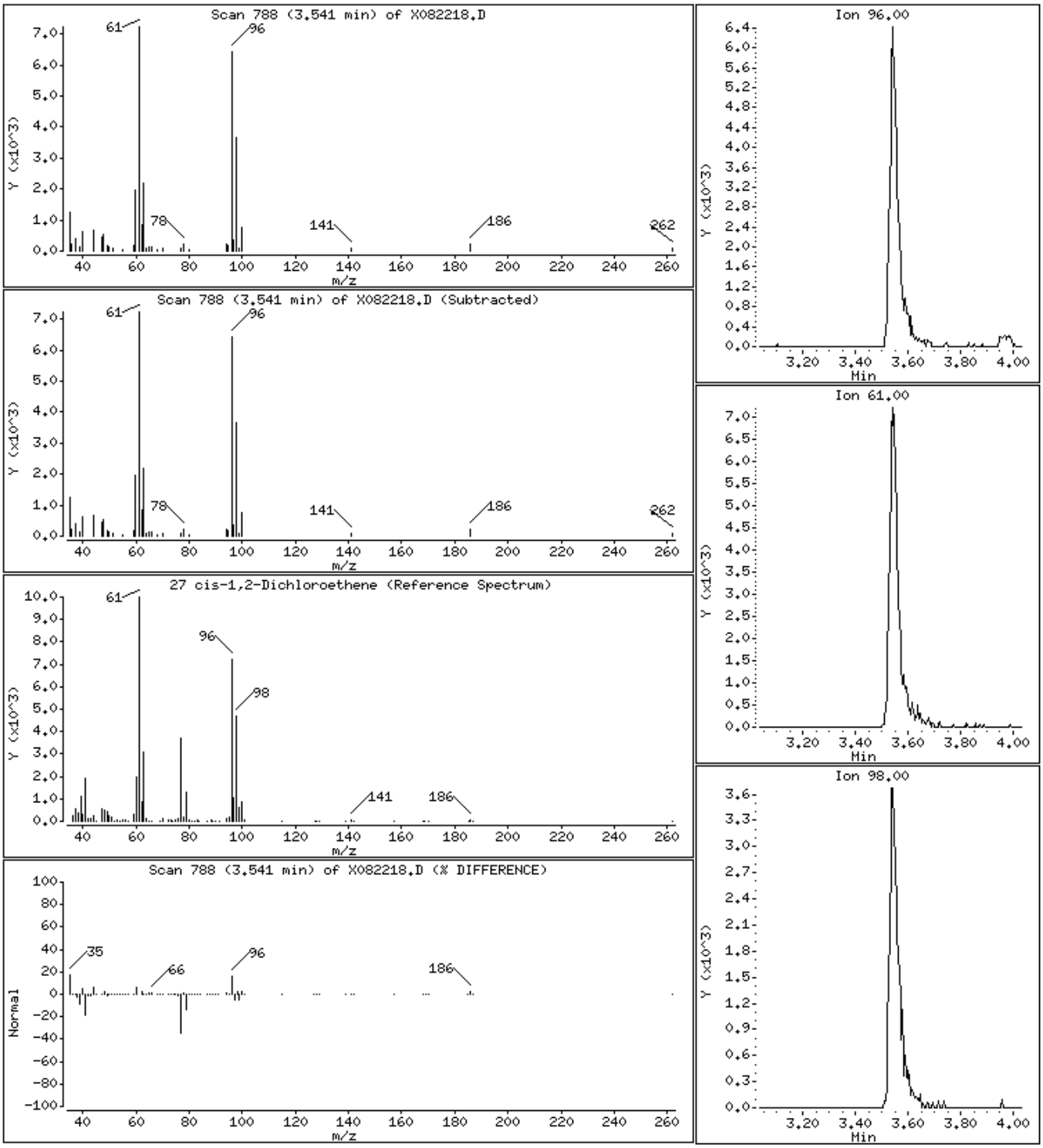
Client ID: HS22080927-05 Instrument: voa6.i

Sample Info: HS22080927-05;HS22080927-05;;;

Purge Volume: 5.0 Operator: PC

Column phase: DB624 Column diameter: 0.18

27 cis-1,2-Dichloroethene Concentration: 11.43 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082218.D Page 5

Date : 22-AUG-2022 16:18

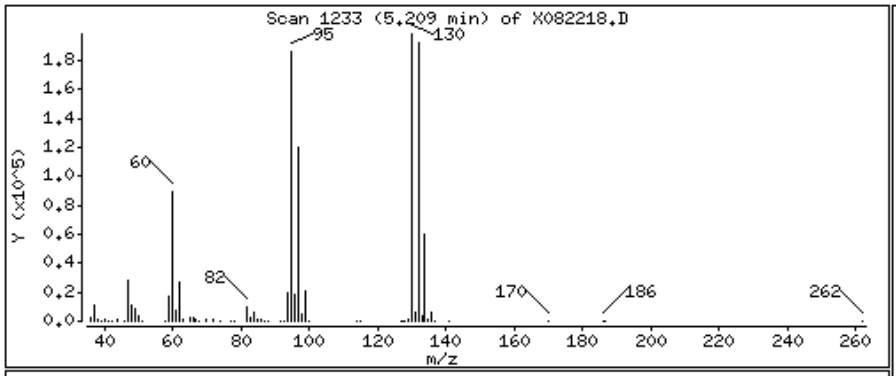
Client ID: HS22080927-05 Instrument: voa6.i

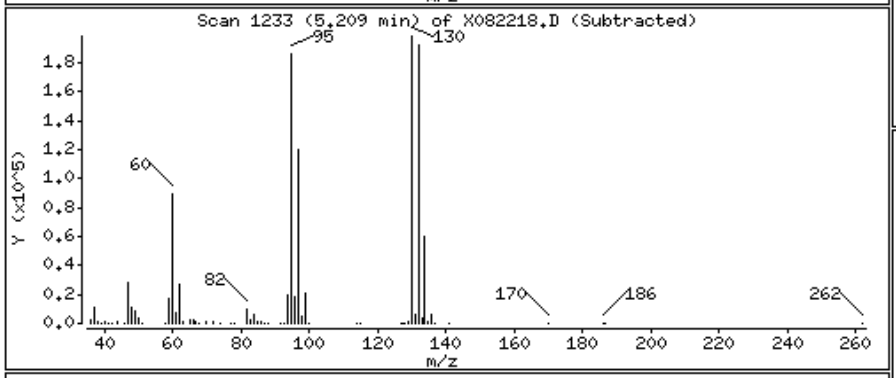
Sample Info: HS22080927-05;HS22080927-05;;;

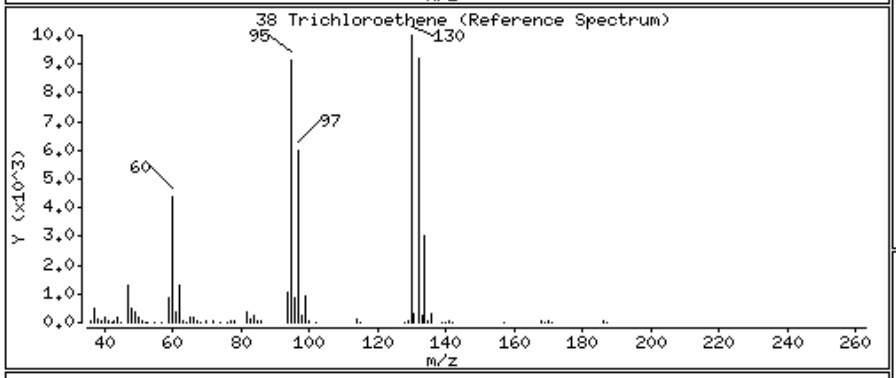
Purge Volume: 5.0 Operator: PC

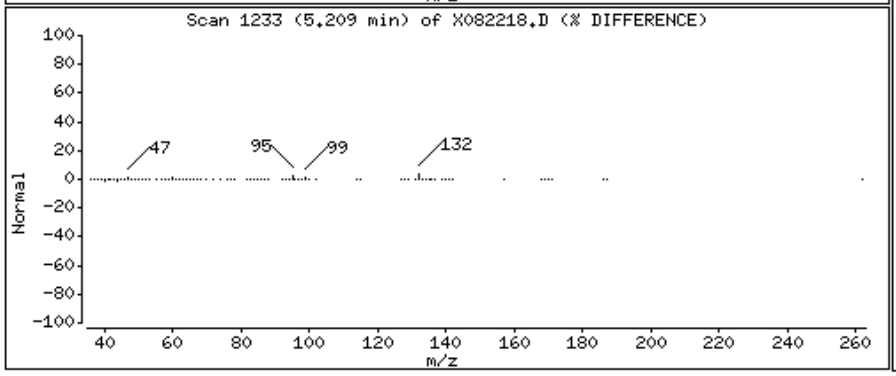
Column phase: DB624 Column diameter: 0.18

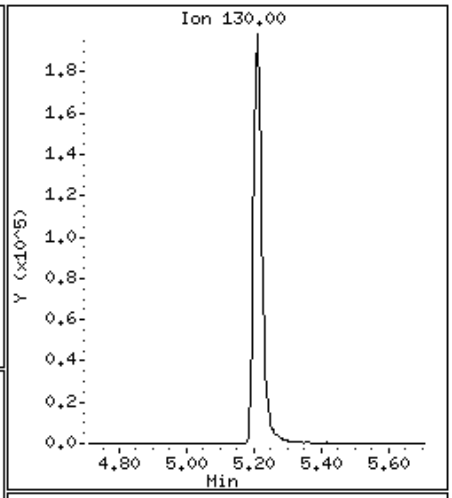
38 Trichloroethene Concentration: 288.74 ug/l

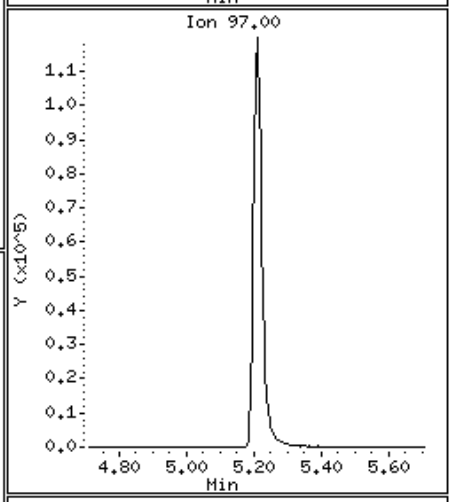


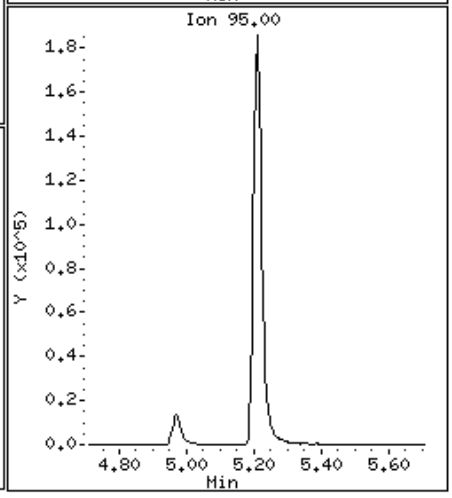












Data File : \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082218.D
Inj Date : 22-AUG-2022 16:18
InstruID : voa6.i
LabSampID : HS22080927-05

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082233.D Page 1
Report Date: 08-Sep-2022 12:31

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082233.D
Lab Smp Id: CCV-END Client Smp ID: CCV-END
Inj Date : 22-AUG-2022 21:34
Operator : PC Inst ID: voa6.i
Smp Info : CCV-END;CCV-END;2;;
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220822.b\8260W.m
Meth Date : 08-Sep-2022 12:31 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 31 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

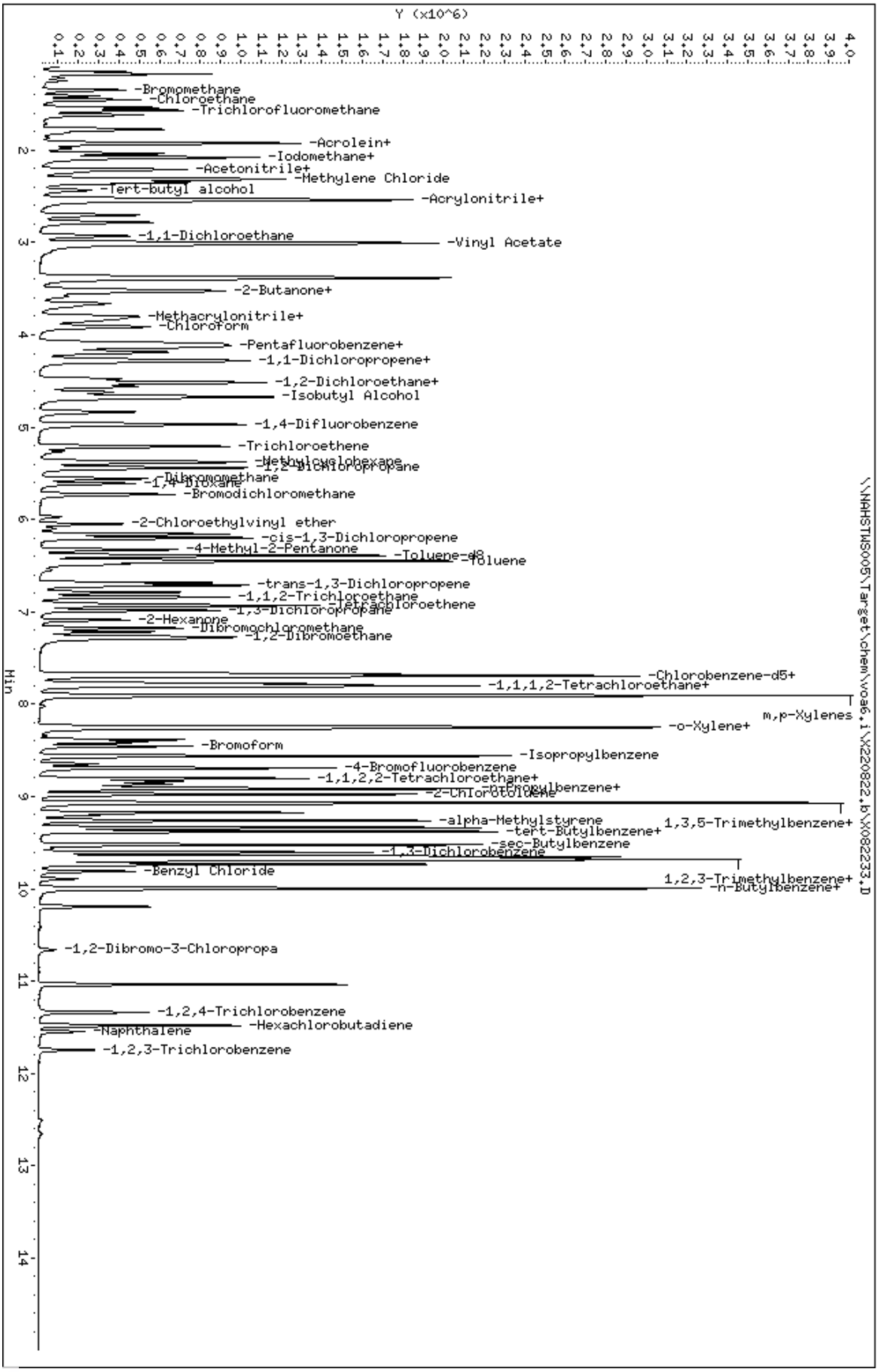
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.189	4.189	(1.000)	543621	50.0000	
* 36 1,4-Difluorobenzene	114	4.969	4.969	(1.000)	834957	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	796802	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	397271	50.0000	
$ 30 Dibromofluoromethane	113	4.103	4.103	(0.979)	281546	50.0000	54.95
$ 35 1,2-Dichloroethane-d4	65	4.477	4.477	(1.069)	306271	50.0000	54.54
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1012153	50.0000	50.91
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	369970	50.0000	52.06
60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	291076	50.0000	51.99
31 1,1,1-Trichloroethane	97	4.088	4.088	(0.976)	425043	50.0000	55.11
68 1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	263373	50.0000	47.20
53 1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	202075	50.0000	49.32
22 1,1-Dichloroethane	63	2.929	2.929	(0.699)	440963	50.0000	52.68
11 1,1-Dichloroethene	96	1.925	1.925	(0.460)	225070	50.0000	49.59
32 1,1-Dichloropropene	75	4.286	4.286	(0.863)	357632	50.0000	53.07
93 1,2,3-Trichlorobenzene	180	11.746	11.746	(1.216)	85084	50.0000	41.19
71 1,2,3-Trichloropropane	75	8.867	8.867	(0.918)	209455	50.0000	48.68(M)
90 1,2,4-Trichlorobenzene	180	11.341	11.341	(1.174)	160010	50.0000	44.22
79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	1008104	50.0000	52.90
89 1,2-Dibromo-3-Chloropropane	155	10.659	10.659	(1.103)	19079	50.0000	45.54

57	1,2-Dibromoethane	107	7.263	7.263 (0.947)	258708	50.0000	49.80
88	1,2-Dichlorobenzene	146	9.992	9.992 (1.034)	499067	50.0000	50.20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
33	1,2-Dichloroethane	62	4.560	4.560	(0.918)	377550	50.0000	51.55
42	1,2-Dichloropropane	63	5.441	5.441	(1.095)	262111	50.0000	51.00
75	1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	1013760	50.0000	52.53
83	1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	564313	50.0000	51.19
54	1,3-Dichloropropane	76	6.985	6.985	(0.911)	413667	50.0000	49.64
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	577193	50.0000	49.32
26	2,2-Dichloropropane	77	3.518	3.518	(0.840)	372736	50.0000	50.14
24	2-Butanone	43	3.582	3.582	(0.855)	142691	100.000	104.63
76	2-Chlorotoluene	91	8.976	8.976	(0.929)	849731	50.0000	49.90
52	2-Hexanone	43	7.090	7.090	(0.924)	248695	100.000	99.25
77	4-Chlorotoluene	91	9.073	9.073	(0.939)	982541	50.0000	51.69
82	p-Isopropyltoluene	119	9.651	9.651	(0.999)	1050449	50.0000	54.20
45	4-Methyl-2-Pentanone	43	6.326	6.326	(0.825)	389954	100.000	100.43
10	Acetone	43	1.981	1.981	(0.473)	115579	100.000	101.01
37	Benzene	78	4.515	4.515	(0.909)	1021205	50.0000	51.61
74	Bromobenzene	156	8.807	8.807	(0.912)	344633	50.0000	50.79
29	Bromochloromethane	128	3.799	3.799	(0.907)	153827	50.0000	50.18
39	Bromodichloromethane	83	5.729	5.729	(1.153)	364117	50.0000	51.63
66	Bromoform	173	8.410	8.410	(1.096)	181352	50.0000	47.02
6	Bromomethane	94	1.347	1.347	(0.322)	193365	50.0000	52.12
19	Carbon Disulfide	76	2.078	2.078	(0.496)	1289215	100.000	107.31
34	Carbon Tetrachloride	117	4.271	4.271	(0.860)	368132	50.0000	51.11
59	Chlorobenzene	112	7.694	7.694	(1.003)	774711	50.0000	51.27
7	Chloroethane	64	1.411	1.411	(0.337)	177138	50.0000	50.80
28	Chloroform	83	3.911	3.911	(0.934)	490164	50.0000	53.45
3	Chloromethane	50	1.085	1.085	(0.259)	277053	50.0000	55.04
27	cis-1,2-Dichloroethene	96	3.533	3.533	(0.843)	288269	50.0000	53.33
46	cis-1,3-Dichloropropene	75	6.157	6.157	(1.239)	442590	50.0000	51.09
55	Dibromochloromethane	129	7.176	7.176	(0.936)	296702	50.0000	50.16
44	Dibromomethane	93	5.557	5.557	(1.118)	175064	50.0000	50.77
2	Dichlorodifluoromethane	85	0.980	0.980	(0.234)	287124	50.0000	55.45
61	Ethylbenzene	106	7.802	7.802	(1.017)	410959	50.0000	53.84
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	162037	50.0000	48.48
67	Isopropylbenzene	105	8.563	8.563	(1.116)	1251410	50.0000	54.52
62	m,p-Xylenes	106	7.907	7.907	(1.031)	1020593	100.000	107.50
17	Methylene Chloride	84	2.311	2.311	(0.552)	270833	50.0000	54.25
87	n-Butylbenzene	91	9.995	9.995	(1.035)	873044	50.0000	54.22
73	n-Propylbenzene	91	8.912	8.912	(0.922)	1423509	50.0000	54.31
92	Naphthalene	128	11.547	11.547	(1.195)	171040	50.0000	42.25
63	o-Xylene	106	8.245	8.245	(1.075)	478199	50.0000	51.81
81	sec-Butylbenzene	105	9.523	9.523	(0.986)	1213621	50.0000	54.19
64	Styrene	104	8.260	8.260	(1.077)	805549	50.0000	53.00
78	tert-Butylbenzene	119	9.339	9.339	(0.967)	872423	50.0000	53.34
56	Tetrachloroethene	164	6.929	6.929	(0.903)	263453	50.0000	50.98
50	Toluene	91	6.449	6.449	(0.841)	1150827	50.0000	51.37
20	trans-1,2-Dichloroethene	96	2.536	2.536	(0.605)	256078	50.0000	53.54
51	trans-1,3-Dichloropropene	75	6.685	6.685	(1.346)	373229	50.0000	52.02
38	Trichloroethene	130	5.208	5.208	(1.048)	303625	50.0000	51.80
8	Trichlorofluoromethane	101	1.568	1.568	(0.375)	441209	50.0000	51.54
5	Vinyl Chloride	62	1.152	1.152	(0.275)	288302	50.0000	50.57

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082233.D
Date : 22-AUG-2022 21:34
Client ID: CCV-END
Sample Info: CCV-END;CCV-END;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

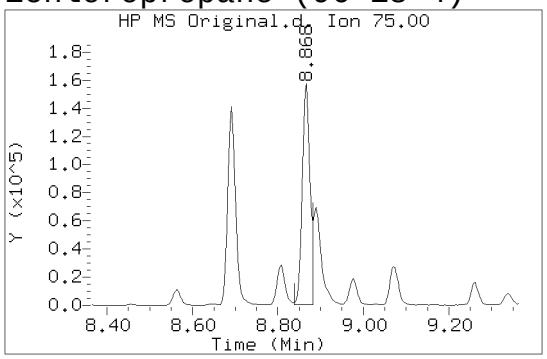
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220822.b\X082233.D
Inj Date : 22-AUG-2022 21:34
InstruID : voa6.i
LabSampID : CCV-END

1,2,3-Trichloropropane (96-18-4)

Reason Code:

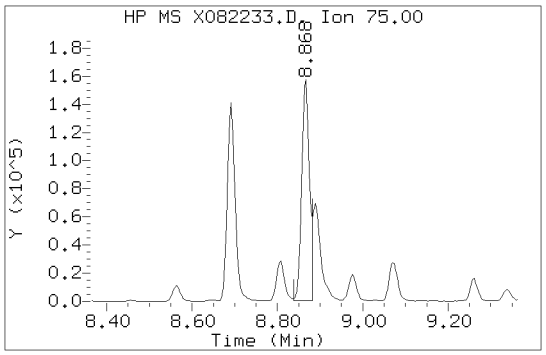
BEFORE

MASS
75
AREA
209455
HEIGHT
157210
08-Sep-2022
12:31
linh
pham



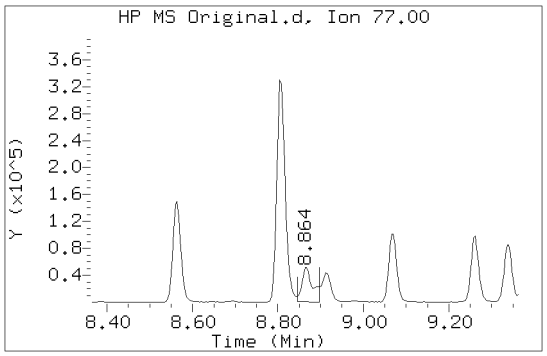
AFTER

MASS
75
AREA
209455
HEIGHT
157210
08-Sep-2022
12:31
linh
pham



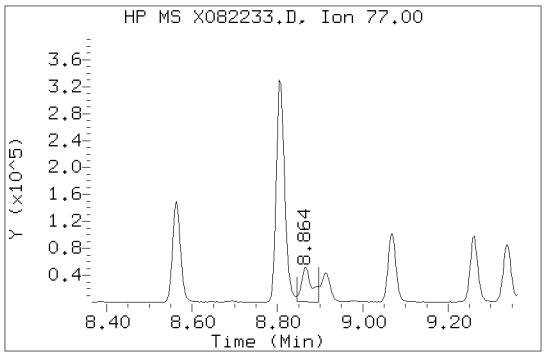
BEFORE

MASS
77
AREA
92885
HEIGHT
50823
08-Sep-2022
12:31
linh
pham



AFTER

MASS
77
AREA
92885
HEIGHT
50823
08-Sep-2022
12:31
linh
pham



HS22080927-MSSEMI-SW8270SIM

ALS WO# HS22080927

right solutions.
right partner.

Form 1

Organic Analysis Data Sheet

EPA 8270SIM

Workorder

HS22080927

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

09/07/2022

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080927

EPA 8270SIM

HS22080927-05
MW16_081622

Collected	Received	Matrix	Units	Prep Method	Prep Amount	Basis
08/16/22 08:35	08/17/22 09:25	Groundwater	ug/L		Initial 1000mL Final 1mL	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File	PrepDate
1,4-Dioxane	10		0.50	0.50	0.50	50	08/29/22 15:16	SV-6_416162	17	08/19/22

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080927

EPA 8270SIM

HS22080927-06
18WW03_081622

Collected	Received	Matrix	Units	Prep Method	Prep Amount	Basis
08/16/22 09:30	08/17/22 09:25	Groundwater	ug/L		Initial 1000mL Final 1mL	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File	PrepDate
1,4-Dioxane	0.022		0.010	0.010	0.010	1	08/27/22 12:36	SV-6_416162	06	08/19/22

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080927

EPA 8270SIM

HS22080927-07
CO8_081622

Collected	Received	Matrix	Units	Prep Method	Prep Amount	Basis
08/16/22 10:15	08/17/22 09:25	Groundwater	ug/L		Initial 1000mL Final 1mL	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File	PrepDate
1,4-Dioxane	0.066		0.010	0.010	0.010	1	08/27/22 12:54	SV-6_416162	07	08/19/22

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080927

EPA 8270SIM

HS22080927-08
1824DPTMW04_081622

Collected	Received	Matrix	Units	Prep Method	Prep Amount	Basis
08/16/22 11:00	08/17/22 09:25	Groundwater	ug/L		Initial 1000mL Final 1mL	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File	PrepDate
1,4-Dioxane	0.14		0.010	0.010	0.010	1	08/27/22 13:12	SV-6_416162	08	08/19/22

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080927

EPA 8270SIM

HS22080927-09
CO3_081622

Collected	Received	Matrix	Units	Prep Method	Prep Amount	Basis
08/16/22 11:45	08/17/22 09:25	Groundwater	ug/L		Initial 1000mL Final 1mL	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File	PrepDate
1,4-Dioxane	0.044		0.010	0.010	0.010	1	08/27/22 13:29	SV-6_416162	09	08/19/22

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080927

EPA 8270SIM

HS22080927-10
18WW18_081622

Collected	Received	Matrix	Units	Prep Method	Prep Amount	Basis
08/16/22 12:40	08/17/22 09:25	Groundwater	ug/L		Initial 1000mL Final 1mL	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File	PrepDate
1,4-Dioxane	0.026		0.010	0.010	0.010	1	08/27/22 13:47	SV-6_416162	10	08/19/22

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080927

EPA 8270SIM

MBLK-182674
MBLK-182674

Collected	Received	Matrix	Units	Prep Method	Prep Amount	Basis
NA	NA	Aqueous	ug/L		Initial 1000mL Final 1mL	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File	PrepDate
1,4-Dioxane	0.010	U	0.010	0.010	0.010	1	08/23/22 13:03	SV-6_416162	11	08/19/22

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

right solutions.
right partner.

Form 2

System Monitoring Compound Recovery

Workorder

HS22080927

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

09/07/2022

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080927

RunID
SV-6_416162

~

MBLK-182674 (6826854)	Analyzed 08/23/22 13:03		Conc Units ug/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	#
Nitrobenzene-d5	0.06690	0.08000	84	40 - 140	
4-Terphenyl-d14	0.04792	0.08000	60	40 - 140	
2-Fluorobiphenyl	0.03569	0.08000	45	40 - 140	

LCS-182674 (6826855)	Analyzed 08/23/22 13:21		Conc Units ug/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	#
4-Terphenyl-d14	0.05270	0.08000	66	40 - 140	
Nitrobenzene-d5	0.06923	0.08000	87	40 - 140	
2-Fluorobiphenyl	0.03523	0.08000	44	40 - 140	

LCSD-182674 (6826856)	Analyzed 08/23/22 13:39		Conc Units ug/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	#
2-Fluorobiphenyl	0.03680	0.08000	46	40 - 140	
Nitrobenzene-d5	0.06967	0.08000	87	40 - 140	
4-Terphenyl-d14	0.05038	0.08000	63	40 - 140	

HS22080927-05 (6826924)	Analyzed 08/27/22 12:18		Conc Units ug/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	#
4-Terphenyl-d14	0.04088	0.08000	51	40 - 140	
Nitrobenzene-d5	0.09377	0.08000	117	40 - 140	
2-Fluorobiphenyl	0.04582	0.08000	57	40 - 140	

HS22080927-06 (6826925)	Analyzed 08/27/22 12:36		Conc Units ug/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	#
2-Fluorobiphenyl	0.04956	0.08000	62	40 - 140	
Nitrobenzene-d5	0.07311	0.08000	91	40 - 140	
4-Terphenyl-d14	0.04665	0.08000	58	40 - 140	

- Surrogate %Recovery Flag * - %Recovery / RPD Outside Limits

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080927

RunID
SV-6_416162

~

HS22080927-07 (6826926)	Analyzed 08/27/22 12:54		Conc Units ug/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	#
4-Terphenyl-d14	0.04663	0.08000	58	40 - 140	
Nitrobenzene-d5	0.06705	0.08000	84	40 - 140	
2-Fluorobiphenyl	0.05252	0.08000	66	40 - 140	

HS22080927-08 (6826927)	Analyzed 08/27/22 13:12		Conc Units ug/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	#
2-Fluorobiphenyl	0.04730	0.08000	59	40 - 140	
Nitrobenzene-d5	0.06792	0.08000	85	40 - 140	
4-Terphenyl-d14	0.05226	0.08000	65	40 - 140	

HS22080927-09 (6826928)	Analyzed 08/27/22 13:29		Conc Units ug/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	#
4-Terphenyl-d14	0.05293	0.08000	66	40 - 140	
Nitrobenzene-d5	0.06891	0.08000	86	40 - 140	
2-Fluorobiphenyl	0.05074	0.08000	63	40 - 140	

HS22080927-10 (6826929)	Analyzed 08/27/22 13:47		Conc Units ug/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	#
2-Fluorobiphenyl	0.05198	0.08000	65	40 - 140	
Nitrobenzene-d5	0.06260	0.08000	78	40 - 140	
4-Terphenyl-d14	0.04959	0.08000	62	40 - 140	

HS22080927-05 (6826995)	Analyzed 08/29/22 15:16		Conc Units ug/L		DF 50
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	#
Nitrobenzene-d5	0	0.08000	0	40 - 140	*
4-Terphenyl-d14	0	0.08000	0	40 - 140	*
2-Fluorobiphenyl	0	0.08000	0	40 - 140	*

- Surrogate %Recovery Flag * - %Recovery / RPD Outside Limits

right solutions.
right partner.

Form 3B

Laboratory Control Sample Recovery

EPA 8270SIM

Workorder

HS22080927

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

09/07/2022

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080927

EPA 8270SIM

SV-6_416162				LCS-182674			LCS-182674					
QC Matrix	Aqueous		Run Date	08/23/22			08/23/22					
Prep Method	SW3510	Units	Run Time	13:21			13:39					
Prep Batch	182674 08/19/22	ug/L	Prep Amt	1000 mL			1000 mL					
Analyte	%R Limits	Spike Added		LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
1,4-Dioxane	40-140	0.08		0.1002	125		0.1092	137.0		20	8.62	
2-Fluorobiphenyl	40-140	0.08		0.03523	44		0.0368	46.0		20	4.37	
4-Terphenyl-d14	40-140	0.08		0.0527	66		0.05038	63.0		20	4.51	
Nitrobenzene-d5	40-140	0.08		0.06923	86		0.06967	87.0		20	0.631	

- %Recovery / RPD Flag * - %Recovery / RPD Outside Limits

right solutions.
right partner.

Form 4

Method Blank Summary

Workorder

HS22080927

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

09/07/2022

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080927

BatchID
182674

~

Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK-182674	11.D	08/23/22 13:03	SV-6_416162
LCS-182674	LCS-182674	12.D	08/23/22 13:21	SV-6_416162
LCSD-182674	LCSD-182674	13.D	08/23/22 13:39	SV-6_416162
MW16_081622	HS22080927-05	05.D	08/27/22 12:18	SV-6_416162
18WW03_081622	HS22080927-06	06.D	08/27/22 12:36	SV-6_416162
CO8_081622	HS22080927-07	07.D	08/27/22 12:54	SV-6_416162
1824DPTMW04_081622	HS22080927-08	08.D	08/27/22 13:12	SV-6_416162
CO3_081622	HS22080927-09	09.D	08/27/22 13:29	SV-6_416162
18WW18_081622	HS22080927-10	10.D	08/27/22 13:47	SV-6_416162
ZZZZZZ	HS22080933-04	14.D	08/27/22 14:59	SV-6_416162
ZZZZZZ	HS22080933-06	15.D	08/27/22 15:17	SV-6_416162
ZZZZZZ	HS22080933-07	16.D	08/27/22 15:35	SV-6_416162
ZZZZZZ	HS22081026-01	17.D	08/27/22 15:53	SV-6_416162
ZZZZZZ	HS22081026-04	18.D	08/27/22 16:11	SV-6_416162
ZZZZZZ	HS22081026-05	19.D	08/27/22 16:29	SV-6_416162
ZZZZZZ	HS22081026-06	20.D	08/27/22 16:47	SV-6_416162
ZZZZZZ	HS22081026-07	21.D	08/27/22 17:05	SV-6_416162

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: HS22080927

Lab File ID: 001 DFTPP Injection Date: 03/10/22

Instrument ID: SV6 DFTPP Injection Time: 1015

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	55.4
68	Less than 2.0% of mass 69	0.8 (1.6)1
69	Mass 69 relative abundance	49.8
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	10.0 - 80.0% of mass 198	59.7
197	Less than 2.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	21.2
365	1.0 - 100.0% of mass 198	2.1
441	Present, but less than mass 443	9.1
442	50.0 - 150.0% of mass 198	62.4
443	15.0 - 24.0% of mass 442	12.2 (19.5)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	1 4 DX-0.08	1 4 DX-0.08	002	03/10/22	1025
02	1 4 DX-0.01	1 4 DX-0.01	003	03/10/22	1047
03	1 4 DX-0.03	1 4 DX-0.03	004	03/10/22	1105
04	1 4 DX-0.05	1 4 DX-0.05	005	03/10/22	1122
05	1 4 DX-0.1	1 4 DX-0.1	006	03/10/22	1140
06	1 4 DX-0.15	1 4 DX-0.15	007	03/10/22	1158
07	1 4 DX-0.2	1 4 DX-0.2	008	03/10/22	1216
08	1 4 DX-0.5	1 4 DX-0.5	009	03/10/22	1256
09	1 4 DX-ICV	1 4 DX-ICV	010	03/10/22	1415
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: HS220927

Lab File ID: 01 DFTPP Injection Date: 08/23/22

Instrument ID: SV6 DFTPP Injection Time: 0933

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	46.3
68	Less than 2.0% of mass 69	0.6 (1.4)1
69	Mass 69 relative abundance	41.7
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	10.0 - 80.0% of mass 198	50.0
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	20.4
365	1.0 - 100.0% of mass 198	2.7
441	Present, but less than mass 443	9.9
442	50.0 - 150.0% of mass 198	66.8
443	15.0 - 24.0% of mass 442	12.8 (19.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	1 4DIOX-CCV	1 4DIOX-CCV	03	08/23/22	1031
02	MBLK-182674	MBLK-182674	11	08/23/22	1303
03	LCS-182674	LCS-182674	12	08/23/22	1321
04	LCSD-182674	LCSD-182674	13	08/23/22	1339
05	1 4DIOX-CCV	1 4DIOX-CCV	31	08/23/22	1903
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: HS22080927

Lab File ID: 01 DFTPP Injection Date: 08/27/22

Instrument ID: SV6 DFTPP Injection Time: 1044

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	44.6
68	Less than 2.0% of mass 69	0.6 (1.5)1
69	Mass 69 relative abundance	40.4
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	10.0 - 80.0% of mass 198	46.0
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 60.0% of mass 198	23.8
365	1.0 - 100.0% of mass 198	3.6
441	Present, but less than mass 443	14.5
442	50.0 - 150.0% of mass 198	96.3
443	15.0 - 24.0% of mass 442	18.5 (19.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	1,4-DIOX-CCV	1,4-DIOX-CCV	03	08/27/22	1126
02	HS22080927-05	HS22080927-05	05	08/27/22	1218
03	HS22080927-06	HS22080927-06	06	08/27/22	1236
04	HS22080927-07	HS22080927-07	07	08/27/22	1254
05	HS22080927-08	HS22080927-08	08	08/27/22	1312
06	HS22080927-09	HS22080927-09	09	08/27/22	1329
07	HS22080927-10	HS22080927-10	10	08/27/22	1347
08	1,4-DIOX-CCV	1,4-DIOX-CCV	32	08/27/22	2022
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: HS22080927

Lab File ID: 01 DFTPP Injection Date: 08/29/22

Instrument ID: SV6 DFTPP Injection Time: 0925

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	46.7
68	Less than 2.0% of mass 69	0.6 (1.4)1
69	Mass 69 relative abundance	43.9
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	10.0 - 80.0% of mass 198	50.8
197	Less than 2.0% of mass 198	0.9
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	20.2
365	1.0 - 100.0% of mass 198	2.6
441	Present, but less than mass 443	9.5
442	50.0 - 150.0% of mass 198	63.5
443	15.0 - 24.0% of mass 442	12.4 (19.5)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	1 4-DIOX-CCV	1 4-DIOX-CCV	04	08/29/22	1104
02	HS22080927-05	HS22080927-05	17	08/29/22	1516
03	1 4-DIOX-CCV	1 4-DIOX-CCV	25	08/29/22	1739
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

right solutions.
right partner.

Form 6

Initial Calibration Data

Workorder

HS22080927

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

09/07/2022

Initial Calibration Data

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS22080927

RunID SV-6_410398

Volatiles Organics by Method 8260C

ICAL Start Date 10-MAR-2022 1025
ICAL End Date 10-MAR-2022 1256

Calibration Files

Calibration File Names

Level 1 ..SV6.i\220310.b\003.D
Level 2 ..SV6.i\220310.b\004.D
Level 3 ..SV6.i\220310.b\005.D
Level 4 ..SV6.i\220310.b\002.D
Level 5 ..SV6.i\220310.b\006.D
Level 6 ..SV6.i\220310.b\007.D
Level 7 ..SV6.i\220310.b\008.D
Level 8 ..SV6.i\220310.b\009.D

Compound	Level 1 0.01000	Level 2 0.03000	Level 3 0.05000	Level 4 0.08000	Level 5 0.10000	Level 6 0.15000	Curve	b	m1	m2	%RSD or R^2	Q
	Level 7 0.20000	Level 8 0.50000										
1,4-Dioxane	0.03798	0.03918	0.04058	0.04498	0.04442	0.04181						
	0.04227	0.03722					0.04105	6.932				
----------	0.04227 ---------	0.03722 ---------	 ---------	 ---------	 ---------	 ---------	0.04105 ---------	6.932 ----------				
2-Fluorophenol	NE	NE	NE	NE	NE	NE						
	NE	NE					NE	NE				
Phenol-d6	NE	NE	NE	NE	NE	NE						
	NE	NE					NE	NE				
Nitrobenzene-d5	0.35847	0.33688	0.34994	0.32911	0.33873	0.30360						
	0.33135	0.31866					0.33334	5.160				
2-Fluorobiphenyl	1.56485	1.50533	1.78010	1.61832	1.49752	1.52796						
	1.51386	1.44464					1.55657	6.656				
105 2,4,6-Tribromophenol	NE	NE	NE	NE	NE	NE						
	NE	NE					NE	NE				
158 4-Terphenyl-d14	1.90541	1.83082	1.91899	1.73323	1.90173	1.90441						
	1.92766	1.91858					1.88010	3.537				

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

right solutions.
right partner.

Form 6I

Initial Calibration Verification (ICV)

Workorder

HS22080927

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

09/07/2022

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS22080927

RunID SV-6_410398

Volatiles Organics by Method 8260C

Instrument ID SV6.i ICAL Date 10-MAR-2022
Lab File ID 010.D ICAL Time 1025
?VAL? ?VAL? Conc Units ug/L
Analysis Type SV Level LOW

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
1,4-Dioxane	0.08000	0.08051	100.64	40-140	
Nitrobenzene-d5	0.08000	0.07786	97.33	40-140	
2-Fluorobiphenyl	0.08000	0.08171	102.14	40-140	
158 4-Terphenyl-d14	0.08000	0.06597	82.47	40-140	

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: HS220927

Instrument ID: SV6 Calibration Date: 08/23/22 Time: 1031

Lab File ID: 03 Init. Calib. Date(s): 03/10/22 03/10/22

Init. Calib. Times: 1025 1256

GC Column: RTX-5SIL MS ID: 0.28 (mm)

COMPOUND	RRF OR AMOUNT	RRF8e-002 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
1,4-Dioxane	4.1e-002	4.44e-002	0.01	8.29	20.00	AVRG
Nitrobenzene-d5	0.3330000	0.3125592	0.01	-6.14	20.00	AVRG
4-Terphenyl-d14	1.8800000	1.7815958	0.01	-5.23	20.00	AVRG
2-Fluorobiphenyl	1.5570000	1.5528194	0.01	-0.27	20.00	AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: HS22080927

Instrument ID: SV6 Calibration Date: 08/23/22 Time: 1903

Lab File ID: 31 Init. Calib. Date(s): 03/10/22 03/10/22

Init. Calib. Times: 1025 1256

GC Column: RTX-5SIL MS ID: 0.28 (mm)

COMPOUND	RRF OR AMOUNT	RRF8e-002 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
1,4-Dioxane	4.1e-002	4.25e-002	0.01	3.66	50.00	AVRG
Nitrobenzene-d5	0.3330000	0.3194666	0.01	-4.06	50.00	AVRG
4-Terphenyl-d14	1.8800000	1.3774718	0.01	-26.73	50.00	AVRG
2-Fluorobiphenyl	1.5570000	0.7893068	0.01	-49.30	50.00	AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: HS22080927

Instrument ID: SV6 Calibration Date: 08/27/22 Time: 1126

Lab File ID: 03 Init. Calib. Date(s): 03/10/22 03/10/22

Init. Calib. Times: 1025 1256

GC Column: RTX-5SIL MS ID: 0.28 (mm)

COMPOUND	RRF OR AMOUNT	RRF8e-002 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
1,4-Dioxane	4.1e-002	4.87e-002	0.01	18.78	20.00	AVRG
Nitrobenzene-d5	0.3330000	0.3287121	0.01	-1.29	20.00	AVRG
4-Terphenyl-d14	1.8800000	1.7584777	0.01	-6.46	20.00	AVRG
2-Fluorobiphenyl	1.5570000	1.5575743	0.01	0.04	20.00	AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: HS22080927

Instrument ID: SV6 Calibration Date: 08/27/22 Time: 2022

Lab File ID: 32 Init. Calib. Date(s): 03/10/22 03/10/22

Init. Calib. Times: 1025 1256

GC Column: RTX-5SIL MS ID: 0.28 (mm)

COMPOUND	RRF OR AMOUNT	RRF8e-002 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
1,4-Dioxane	4.1e-002	4.31e-002	0.01	5.12	50.00	AVRG
Nitrobenzene-d5	0.3330000	0.3046981	0.01	-8.50	50.00	AVRG
4-Terphenyl-d14	1.8800000	1.7325387	0.01	-7.84	50.00	AVRG
2-Fluorobiphenyl	1.5570000	1.3824357	0.01	-11.21	50.00	AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: HS22080927

Instrument ID: SV6 Calibration Date: 08/29/22 Time: 1104

Lab File ID: 04 Init. Calib. Date(s): 03/10/22 03/10/22

Init. Calib. Times: 1025 1256

GC Column: RTX-5SIL MS ID: 0.28 (mm)

COMPOUND	RRF OR AMOUNT	RRF8e-002 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
1,4-Dioxane	4.1e-002	4.76e-002	0.01	16.10	20.00	AVRG
Nitrobenzene-d5	0.3330000	0.3211820	0.01	-3.55	20.00	AVRG
4-Terphenyl-d14	1.8800000	1.8042986	0.01	-4.03	20.00	AVRG
2-Fluorobiphenyl	1.5570000	1.4189287	0.01	-8.87	20.00	AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: HS22080927

Instrument ID: SV6 Calibration Date: 08/29/22 Time: 1739

Lab File ID: 25 Init. Calib. Date(s): 03/10/22 03/10/22

Init. Calib. Times: 1025 1256

GC Column: RTX-5SIL MS ID: 0.28 (mm)

COMPOUND	RRF OR AMOUNT	RRF8e-002 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
1,4-Dioxane	4.1e-002	4.41e-002	0.01	7.56	50.00	AVRG
Nitrobenzene-d5	0.3330000	0.2653500	0.01	-20.32	50.00	AVRG
4-Terphenyl-d14	1.8800000	1.4565322	0.01	-22.52	50.00	AVRG
2-Fluorobiphenyl	1.5570000	1.2050948	0.01	-22.60	50.00	AVRG

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: HS220927

Lab File ID (Standard): 03 Date Analyzed: 08/23/22

Instrument ID: SV6 Time Analyzed: 1031

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	6003	3.59	15829	4.71	7005	6.38
	UPPER LIMIT	12006	4.09	31658	5.21	14010	6.88
	LOWER LIMIT	3002	3.09	7915	4.21	3503	5.88
	CLIENT SAMPLE NO.						
01	MBLK-182674	3740	3.60	16600	4.71	8229	6.38
02	LCS-182674	11766	3.60	15196	4.71	7453	6.38
03	LCSD-182674	6088	3.60	15376	4.71	7630	6.38
04							
05							
06							
07							
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 internal standard area values 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.: HS220927

Lab File ID (Standard): 03 Date Analyzed: 08/23/22

Instrument ID: SV6 Time Analyzed: 1031

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	17339	7.83	7501	10.66	5111	12.72
	UPPER LIMIT	34678	8.33	15002	11.16	10222	13.22
	LOWER LIMIT	8670	7.33	3751	10.16	2556	12.22
	CLIENT SAMPLE NO.						
01	MBLK-182674	14728	7.82	8245	10.66	5780	12.72
02	LCS-182674	13138	7.83	6821	10.66	4654	12.72
03	LCSD-182674	13386	7.83	7419	10.66	4882	12.72
04							
05							
06							
07							
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 internal standard area values 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.: HS22080927

Lab File ID (Standard): 03 Date Analyzed: 08/27/22

Instrument ID: SV6 Time Analyzed: 1126

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	5445	3.37	14264	4.47	8311	6.14
	UPPER LIMIT	10890	3.87	28528	4.97	16622	6.64
	LOWER LIMIT	2723	2.87	7132	3.97	4156	5.64
	CLIENT SAMPLE NO.						
01	HS22080927-05	5773	3.37	13399	4.47	8203	6.13
02	HS22080927-06	5049	3.37	12199	4.47	7462	6.13
03	HS22080927-07	5863	3.37	13253	4.47	7960	6.13
04	HS22080927-08	5244	3.37	10105	4.47	6851	6.14
05	HS22080927-09	4916	3.37	10196	4.47	6603	6.13
06	HS22080927-10	5042	3.37	11840	4.47	6910	6.13
07							
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 internal standard area values 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.: HS22080927

Lab File ID (Standard): 03 Date Analyzed: 08/27/22

Instrument ID: SV6 Time Analyzed: 1126

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	17053	7.58	6694	10.33	5099	12.32
	UPPER LIMIT	34106	8.08	13388	10.83	10198	12.82
	LOWER LIMIT	8527	7.08	3347	9.83	2550	11.82
	CLIENT SAMPLE NO.						
01	HS22080927-05	12361	7.57	6983	10.33	5475	12.31
02	HS22080927-06	11102	7.57	6310	10.33	4748	12.31
03	HS22080927-07	12025	7.57	6677	10.33	4379	12.31
04	HS22080927-08	10039	7.58	4727	10.33	3949	12.32
05	HS22080927-09	9658	7.57	4751	10.33	3324	12.31
06	HS22080927-10	10090	7.57	5194	10.33	3686	12.31
07							
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 internal standard area values 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.: HS22080927

Lab File ID (Standard): 04 Date Analyzed: 08/29/22

Instrument ID: SV6 Time Analyzed: 1104

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	6461	3.32	18105	4.42	10352	6.08
	UPPER LIMIT	12922	3.82	36210	4.92	20704	6.58
	LOWER LIMIT	3231	2.82	9053	3.92	5176	5.58
	CLIENT SAMPLE NO.						
01	HS22080927-05	4222	3.32	9391	4.42	4792*	6.09
02							
03							
04							
05							
06							
07							
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 internal standard area values 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.: HS22080927

Lab File ID (Standard): 04 Date Analyzed: 08/29/22

Instrument ID: SV6 Time Analyzed: 1104

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	15296	7.52	7293	10.26	5301	12.23
	UPPER LIMIT	30592	8.02	14586	10.76	10602	12.73
	LOWER LIMIT	7648	7.02	3647	9.76	2651	11.73
	CLIENT SAMPLE NO.						
01	HS22080927-05	11351	7.52	7420	10.26	3047	12.23
02							
03							
04							
05							
06							
07							
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 internal standard area values with an asterisk.
* Values outside of QC limits.

right solutions.
right partner.

Form 12

Preparation Log

SW3510

Workorder

HS22080927

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

09/07/2022

Form 12 - Preparation Log

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080927

EPA 8270SIM

RunID
182674

Prep Batch 182674 **Prep Method** **Prep Date** 08/19/22

	Matrix	Type	Lab Sample ID	Initial Amt (mL)	Final Amt (mL)	Client Sample ID
1	Aqueous	MBLK	MBLK-182674	1000	1	MBLK-182674
2	Aqueous	LCS	LCS-182674	1000	1	LCS-182674
3	Aqueous	LCSD	LCSD-182674	1000	1	LCSD-182674
4	Groundwater	SAMP	HS22080927-05	1000	1	MW16_081622
5	Groundwater	SAMP	HS22080927-06	1000	1	18WW03_081622
6	Groundwater	SAMP	HS22080927-07	1000	1	CO8_081622
7	Groundwater	SAMP	HS22080927-08	1000	1	1824DPTMW04_081622
8	Groundwater	SAMP	HS22080927-09	1000	1	CO3_081622
9	Groundwater	SAMP	HS22080927-10	1000	1	18WW18_081622

right solutions.
right partner.

Analysis Run Log

Workorder

HS22080927

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

09/07/2022

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080927

RunID
SV-6_410398

~

Instrument ID SV-6 **Matrix** R410398 **Start Date** 03/10/2022 **EndDate** 03/10/2022

Client Sample ID	Type	Lab Sample ID	DF	Analysis Date	File ID
DFTPP	TUNE	DFTPP	1	03/10/22 10:15	001.D
1 4 DX-0.08	ICAL4	1 4 DX-0.08	1	03/10/22 10:25	002.D
1 4 DX-0.01	ICAL1	1 4 DX-0.01	1	03/10/22 10:47	003.D
1 4 DX-0.03	ICAL2	1 4 DX-0.03	1	03/10/22 11:05	004.D
1 4 DX-0.05	ICAL3	1 4 DX-0.05	1	03/10/22 11:22	005.D
1 4 DX-0.1	ICAL5	1 4 DX-0.1	1	03/10/22 11:40	006.D
1 4 DX-0.15	ICAL6	1 4 DX-0.15	1	03/10/22 11:58	007.D
1 4 DX-0.2	ICAL7	1 4 DX-0.2	1	03/10/22 12:16	008.D
1 4 DX-0.5	ICAL8	1 4 DX-0.5	1	03/10/22 12:56	009.D
1 4 DX-ICV	ICV	1 4 DX-ICV	1	03/10/22 14:15	010.D

SV06 -Logbook

Batch: 50796 **Analyst:** Marco Gutierrez

Date: 08-23-2022 **Reviewer:**

Method: R8270LL SIM **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	DFTPP	TUNE	08-23-2022 09:33 am	1.00	0.00 gm	0.00 mL	01.D		Y	NA
2	SLSTD-2.5	CCV	08-23-2022 09:45 am	1.00	1000.00 mL	1000.00 mL	02.D	Liquid	Y	NA
3	1 4DIOX-CCV	CCV	08-23-2022 10:31 am	1.00	1000.00 mL	1000.00 mL	03.D	Liquid	Y	NA
4	MBLK-182382	MBLK	08-23-2022 11:16 am	1.00	1000.00 mL	1000.00 mL	05.D	Liquid	Y	NA
5	LCS-182382	LCS	08-23-2022 11:34 am	1.00	1000.00 mL	1000.00 mL	06.D	Liquid	Y	NA
6	LCSD-182382	LCSD	08-23-2022 11:52 am	1.00	1000.00 mL	1000.00 mL	07.D	Liquid	Y	NA
7	MBLK-182546	MBLK	08-23-2022 12:10 pm	1.00	1000.00 mL	1000.00 mL	08.D	Liquid	Y	NA
8	LCS-182546	LCS	08-23-2022 12:27 pm	1.00	1000.00 mL	1000.00 mL	09.D	Liquid	Y	NA
9	LCSD-182546	LCSD	08-23-2022 12:45 pm	1.00	1000.00 mL	1000.00 mL	10.D	Liquid	Y	NA
10	MBLK-182674	SAMP	08-23-2022 01:03 pm	1.00	1000.00 mL	1000.00 mL	11.D	Liquid	Y	NA
11	LCS-182674	LCS	08-23-2022 01:21 pm	1.00	1000.00 mL	1000.00 mL	12.D	Liquid	Y	NA
12	LCSD-182674	LCSD	08-23-2022 01:39 pm	1.00	1000.00 mL	1000.00 mL	13.D	Liquid	Y	NA
13	HS22080472-01	SAMP	08-23-2022 01:57 pm	1.00	1000.00 mL	1000.00 mL	14.D	Liquid	Y	NA
14	HS22080499-01	SAMP	08-23-2022 02:15 pm	1.00	1000.00 mL	1000.00 mL	15.D	Liquid	Y	NA
15	HS22080499-02	SAMP	08-23-2022 02:33 pm	1.00	1000.00 mL	1000.00 mL	16.D	Liquid	Y	NA
16	HS22080499-03	SAMP	08-23-2022 02:51 pm	1.00	1000.00 mL	1000.00 mL	17.D	Liquid	Y	NA
17	HS22080499-04	SAMP	08-23-2022 03:09 pm	1.00	1000.00 mL	1000.00 mL	18.D	Liquid	Y	NA
18	HS22080499-06	SAMP	08-23-2022 03:27 pm	1.00	1000.00 mL	1000.00 mL	19.D	Liquid	Y	NA
19	HS22080499-07	SAMP	08-23-2022 03:45 pm	1.00	1000.00 mL	1000.00 mL	20.D	Liquid	Y	NA
20	HS22080499-08	SAMP	08-23-2022 04:03 pm	1.00	1000.00 mL	1000.00 mL	21.D	Liquid	Y	NA
21	HS22080522-01	SAMP	08-23-2022 04:21 pm	1.00	1000.00 mL	1000.00 mL	22.D	Liquid	Y	NA
22	HS22080522-02	SAMP	08-23-2022 04:39 pm	1.00	1000.00 mL	1000.00 mL	23.D	Liquid	Y	NA
23	HS22080522-03	SAMP	08-23-2022 04:57 pm	1.00	1000.00 mL	1000.00 mL	24.D	Liquid	Y	NA
24	HS22080522-04	SAMP	08-23-2022 05:15 pm	1.00	1000.00 mL	1000.00 mL	25.D	Liquid	Y	NA
25	HS22080522-08	SAMP	08-23-2022 05:33 pm	1.00	1000.00 mL	1000.00 mL	26.D	Liquid	Y	NA
26	HS22080522-09	SAMP	08-23-2022 05:51 pm	1.00	1000.00 mL	1000.00 mL	27.D	Liquid	Y	NA
27	HS22080522-10	SAMP	08-23-2022 06:09 pm	1.00	1000.00 mL	1000.00 mL	28.D	Liquid	Y	NA
28	HS22080472-01	SAMP	08-23-2022 06:27 pm	100.0(	1000.00 mL	1000.00 mL	29.D	Liquid	Y	NA
29	HS22080499-01	SAMP	08-23-2022 06:45 pm	10.00	1000.00 mL	1000.00 mL	30.D	Liquid	Y	NA
30	1 4DIOX-CCV	CCV	08-23-2022 07:03 pm	1.00	1000.00 mL	1000.00 mL	31.D	Liquid	Y	NA

SV06 -Logbook

Batch: 50834 **Analyst:** Marco Gutierrez

Date: 08-27-2022 **Reviewer:**

Method: R8270D LVI/SIM **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	DFTPP	TUNE	08-27-2022 10:44 am	1.00	0.00 gm	0.00 mL	01.D		Y	NA
2	SLSTD-2.5	CCV	08-27-2022 10:56 am	1.00	1000.00 mL	1000.00 mL	02.D	Liquid	Y	NA
3	1 4-DIOX-0.08	CCV	08-27-2022 11:26 am	1.00	1000.00 mL	1000.00 mL	03.D	Liquid	Y	NA
4	1 4-DIOX CCB	SAMP	08-27-2022 12:00 pm	1.00	1000.00 mL	1000.00 mL	04.D	Liquid	Y	NA
5	HS22080927-05	SAMP	08-27-2022 12:18 pm	1.00	1000.00 mL	1000.00 mL	05.D	Liquid	Y	NA
6	HS22080927-06	SAMP	08-27-2022 12:36 pm	1.00	1000.00 mL	1000.00 mL	06.D	Liquid	Y	NA
7	HS22080927-07	SAMP	08-27-2022 12:54 pm	1.00	1000.00 mL	1000.00 mL	07.D	Liquid	Y	NA
8	HS22080927-08	SAMP	08-27-2022 01:12 pm	1.00	1000.00 mL	1000.00 mL	08.D	Liquid	Y	NA
9	HS22080927-09	SAMP	08-27-2022 01:29 pm	1.00	1000.00 mL	1000.00 mL	09.D	Liquid	Y	NA
10	HS22080927-10	SAMP	08-27-2022 01:47 pm	1.00	1000.00 mL	1000.00 mL	10.D	Liquid	Y	NA
11	HS22080933-01	SAMP	08-27-2022 02:05 pm	1.00	1000.00 mL	1000.00 mL	11.D	Liquid	Y	NA
12	HS22080933-02	SAMP	08-27-2022 02:23 pm	1.00	1000.00 mL	1000.00 mL	12.D	Liquid	Y	NA
13	HS22080933-03	SAMP	08-27-2022 02:41 pm	1.00	1000.00 mL	1000.00 mL	13.D	Liquid	Y	NA
14	HS22080933-04	SAMP	08-27-2022 02:59 pm	1.00	1000.00 mL	1000.00 mL	14.D	Liquid	Y	NA
15	HS22080933-06	SAMP	08-27-2022 03:17 pm	1.00	1000.00 mL	1000.00 mL	15.D	Liquid	Y	NA
16	HS22080933-07	SAMP	08-27-2022 03:35 pm	1.00	1000.00 mL	1000.00 mL	16.D	Liquid	Y	NA
17	HS22081026-01	SAMP	08-27-2022 03:53 pm	1.00	1000.00 mL	1000.00 mL	17.D	Liquid	Y	NA
18	HS22081026-04	SAMP	08-27-2022 04:11 pm	1.00	1000.00 mL	1000.00 mL	18.D	Liquid	Y	NA
19	HS22081026-05	SAMP	08-27-2022 04:29 pm	1.00	1000.00 mL	1000.00 mL	19.D	Liquid	Y	NA
20	HS22081026-06	SAMP	08-27-2022 04:47 pm	1.00	1000.00 mL	1000.00 mL	20.D	Liquid	Y	NA
21	HS22081026-07	SAMP	08-27-2022 05:05 pm	1.00	1000.00 mL	1000.00 mL	21.D	Liquid	Y	NA
22	HS22081097-02	SAMP	08-27-2022 05:23 pm	1.00	1000.00 mL	1000.00 mL	22.D	Liquid	Y	NA
23	HS22081097-04	SAMP	08-27-2022 05:41 pm	1.00	1000.00 mL	1000.00 mL	23.D	Liquid	Y	NA
24	HS22081097-05	SAMP	08-27-2022 05:58 pm	1.00	1000.00 mL	1000.00 mL	24.D	Liquid	Y	NA
25	HS22081097-07	SAMP	08-27-2022 06:16 pm	1.00	1000.00 mL	1000.00 mL	25.D	Liquid	Y	NA
26	HS22081097-08	SAMP	08-27-2022 06:34 pm	1.00	1000.00 mL	1000.00 mL	26.D	Liquid	Y	NA
27	HS22081120-01	SAMP	08-27-2022 06:52 pm	1.00	1000.00 mL	1000.00 mL	27.D	Liquid	Y	NA
28	HS22081120-02	SAMP	08-27-2022 07:10 pm	1.00	1000.00 mL	1000.00 mL	28.D	Liquid	Y	NA
29	HS22081120-03	SAMP	08-27-2022 07:28 pm	1.00	1000.00 mL	1000.00 mL	29.D	Liquid	Y	NA
30	HS22081120-04	SAMP	08-27-2022 07:46 pm	1.00	1000.00 mL	1000.00 mL	30.D	Liquid	Y	NA
31	HS22081120-05	SAMP	08-27-2022 08:04 pm	1.00	1000.00 mL	1000.00 mL	31.D	Liquid	Y	NA
32	1 4-DIOX-0.08	CCV	08-27-2022 08:22 pm	1.00	1000.00 mL	1000.00 mL	32.D	Liquid	Y	NA
33	1 4-DIOX CCB	SAMP	08-27-2022 08:40 pm	1.00	1000.00 mL	1000.00 mL	33.D	Liquid	Y	NA

SV06 -Logbook

Batch: 50846 **Analyst:** Marco Gutierrez

Date: 08-29-2022 **Reviewer:**

Method: R8270DLVISIM **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	DFTPP	TUNE	08-29-2022 09:25 am	1.00	0.00 gm	0.00 mL	01.D		Y	NA
2	SLSTD-2.5	CCV	08-29-2022 09:37 am	1.00	1000.00 mL	1000.00 mL	02.D	Liquid	Y	NA
3	LVI PAH-0.025	CCV	08-29-2022 10:21 am	1.00	33.00 mL	2000.00 mL	03.D	Liquid	Y	NA
4	1 4-DIOX-0.08	CCV	08-29-2022 11:04 am	1.00	1000.00 mL	1000.00 mL	04.D	Liquid	Y	NA
5	CCB	SAMP	08-29-2022 11:25 am	1.00	1000.00 mL	1000.00 mL	05.D	Liquid	Y	NA
6	HS22081003-06	SAMP	08-29-2022 11:43 am	250.0(	33.00 mL	2000.00 mL	06.D	Liquid	Y	NA
7	HS22081144-01	SAMP	08-29-2022 12:03 pm	100.0(	33.00 mL	2000.00 mL	07.D	Liquid	Y	NA
8	HS22081146-01	SAMP	08-29-2022 12:23 pm	100.0(	33.00 mL	2000.00 mL	08.D	Liquid	Y	NA
9	HS22081146-02	SAMP	08-29-2022 12:43 pm	250.0(	33.00 mL	2000.00 mL	09.D	Liquid	Y	NA
10	HS22081092-02	SAMP	08-29-2022 01:03 pm	100.0(	33.00 mL	2000.00 mL	10.D	Liquid	Y	NA
11	HS22081120-06	SAMP	08-29-2022 01:23 pm	1.00	1000.00 mL	1000.00 mL	11.D	Liquid	Y	NA
12	HS22081311-02	SAMP	08-29-2022 01:41 pm	1.00	1000.00 mL	1000.00 mL	12.D	Liquid	Y	NA
13	HS22081311-03	SAMP	08-29-2022 01:59 pm	1.00	1000.00 mL	1000.00 mL	13.D	Liquid	Y	NA
14	HS22081311-06	SAMP	08-29-2022 02:17 pm	1.00	1000.00 mL	1000.00 mL	14.D	Liquid	Y	NA
15	HS22081275-01	SAMP	08-29-2022 02:35 pm	1.00	33.00 mL	2000.00 mL	15.D	Liquid	Y	NA
16	HS22081359-01	SAMP	08-29-2022 02:55 pm	1.00	33.00 mL	2000.00 mL	16.D	Liquid	Y	NA
17	HS22080927-05X50	SAMP	08-29-2022 03:16 pm	1.00	1000.00 mL	1000.00 mL	17.D	Liquid	Y	NA
18	HS22080933-02X1H	SAMP	08-29-2022 03:33 pm	1.00	1000.00 mL	1000.00 mL	18.D	Liquid	Y	NA
19	HS22080933-03X1H	SAMP	08-29-2022 03:51 pm	1.00	1000.00 mL	1000.00 mL	19.D	Liquid	Y	NA
20	HS22080933-04X1K	SAMP	08-29-2022 04:09 pm	1.00	1000.00 mL	1000.00 mL	20.D	Liquid	Y	NA
21	HS22081026-01X10	SAMP	08-29-2022 04:27 pm	1.00	1000.00 mL	1000.00 mL	21.D	Liquid	Y	NA
22	HS22081120-01X10	SAMP	08-29-2022 04:45 pm	1.00	1000.00 mL	1000.00 mL	22.D	Liquid	Y	NA
23	HS22081120-03X1H	SAMP	08-29-2022 05:03 pm	1.00	1000.00 mL	1000.00 mL	23.D	Liquid	Y	NA
24	HS22081311-03X10	SAMP	08-29-2022 05:21 pm	1.00	1000.00 mL	1000.00 mL	24.D	Liquid	Y	NA
25	1 4-DIOX-0.08	CCV	08-29-2022 05:39 pm	1.00	1000.00 mL	1000.00 mL	25.D	Liquid	Y	NA
26	CCB	SAMP	08-29-2022 05:57 pm	1.00	1000.00 mL	1000.00 mL	26.D	Liquid	Y	NA
27	MBLK-182941RR	SAMP	08-29-2022 06:15 pm	1.00	33.00 mL	2000.00 mL	27.D	Liquid	Y	NA
28	LCS-182941RR	SAMP	08-29-2022 06:35 pm	1.00	33.00 mL	2000.00 mL	28.D	Liquid	Y	NA
29	HS22081148-02RR	SAMP	08-29-2022 06:55 pm	1.00	33.00 mL	2000.00 mL	29.D	Liquid	Y	NA
30	HS22081148-02MSRR	SAMP	08-29-2022 07:15 pm	1.00	33.00 mL	2000.00 mL	30.D	Liquid	Y	NA
31	HS22081148-02MSDRR	SAMP	08-29-2022 07:36 pm	1.00	33.00 mL	2000.00 mL	31.D	Liquid	Y	NA
32	HS22081148-19	SAMP	08-29-2022 07:56 pm	1.00	33.00 mL	2000.00 mL	32.D	Liquid	Y	NA
33	HS22081148-19MS	SAMP	08-29-2022 08:16 pm	1.00	33.00 mL	2000.00 mL	33.D	Liquid	Y	NA
34	HS22081148-19MSD	SAMP	08-29-2022 08:36 pm	1.00	33.00 mL	2000.00 mL	34.D	Liquid	Y	NA
35	HS22081148-01	SAMP	08-29-2022 08:56 pm	1.00	33.00 mL	2000.00 mL	35.D	Liquid	Y	NA
36	HS22081148-03	SAMP	08-29-2022 09:17 pm	1.00	33.00 mL	2000.00 mL	36.D	Liquid	Y	NA
37	HS22081148-04	SAMP	08-29-2022 09:37 pm	1.00	33.00 mL	2000.00 mL	37.D	Liquid	Y	NA
38	HS22081148-05	SAMP	08-29-2022 09:57 pm	1.00	33.00 mL	2000.00 mL	38.D	Liquid	Y	NA
39	HS22081148-06	SAMP	08-29-2022 10:17 pm	1.00	33.00 mL	2000.00 mL	39.D	Liquid	Y	NA

right solutions.
right partner.

Raw Data SV-6 410398

Workorder

HS22080927

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

09/07/2022

Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\001.D Page 1
Report Date: 10-Mar-2022 10:29

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\SV6.i\220310.b\001.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 10-MAR-2022 10:15 MS Autotune Date: 09-MAR-2022 11:12
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220310.b\DFTPP.m
Meth Date : 09-Dec-2021 09:52 jjuarez 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: WATER
Processing Host: NAHSTW7122

Concentration Formula: Amt * DF * Uf * Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Cpnd Variable		Local Compound Variable

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		
5.667	6.357	-0.690	198	97000			0.00- 100.00	100.00
5.667	6.357	-0.690	51	53776			10.00- 80.00	55.44
5.667	6.357	-0.690	68	766			0.00- 2.00	1.59
5.667	6.357	-0.690	69	48284			0.00- 0.00	49.78
5.667	6.357	-0.690	70	222			0.00- 2.00	0.46
5.667	6.357	-0.690	127	57876			10.00- 80.00	59.67
5.667	6.357	-0.690	197	89			0.00- 2.00	0.09
5.667	6.357	-0.690	199	6703			5.00- 9.00	6.91
5.667	6.357	-0.690	275	20548			10.00- 60.00	21.18
5.667	6.357	-0.690	365	2011			1.00- 100.00	2.07
5.667	6.357	-0.690	441	8864			0.01- 99.99	74.94
5.667	6.357	-0.690	442	60568			50.00- 150.00	62.44
5.667	6.357	-0.690	443	11828			15.00- 24.00	19.53

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	55.44
68	Less than 2.00% of mass 69	0.79 (1.59)
69	Mass 69 relative abundance	49.78
70	Less than 2.00% of mass 69	0.23 (0.46)
127	10.00 - 80.00% of mass 198	59.67
197	Less than 2.00% of mass 198	0.09
199	5.00 - 9.00% of mass 198	6.91
275	10.00 - 60.00% of mass 198	21.18
365	1.00 - 100.00% of mass 198	2.07
441	Present, but less than mass 443	9.14
442	50.00 - 150.00% of mass 198	62.44
443	15.00 - 24.00% of mass 442	12.19 (19.53)

Data File: 001.D
Spectrum: Average Spectrum: 5.657 to 5.662 min. (SUB)
Location of Maximum: 198.00
Number of points: 255

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	59	111.00	4304	180.00	2452	257.00	491
37.00	224	112.00	539	181.00	1144	258.00	2733
38.00	615	113.00	143	182.00	177	259.00	454
39.00	3676	116.00	789	184.00	192	261.00	82
40.00	317	117.00	14919	185.00	1728	264.00	185
41.00	107	118.00	1145	186.00	13758	265.00	973
44.00	143	119.00	105	187.00	3715	266.00	174
45.00	94	120.00	150	188.00	457	268.00	88
47.00	15	122.00	973	189.00	685	270.00	75
48.00	89	123.00	1516	190.00	117	272.00	103
49.00	508	124.00	642	191.00	390	273.00	1456
50.00	14754	125.00	696	192.00	1177	274.00	3568
51.00	53776	126.00	256	193.00	1358	275.00	20544
52.00	2771	127.00	57872	194.00	259	276.00	2620
53.00	81	128.00	4240	195.00	139	277.00	1638
55.00	257	129.00	21648	196.00	2928	278.00	262
56.00	1346	130.00	1884	197.00	89	283.00	139
57.00	3111	131.00	409	198.00	97000	284.00	97
58.00	105	132.00	154	199.00	6703	285.00	237
61.00	558	134.00	606	200.00	528	293.00	305
62.00	699	135.00	1740	201.00	612	294.00	85
63.00	1803	136.00	678	203.00	645	295.00	95
64.00	268	137.00	930	204.00	3334	296.00	5500
65.00	1049	138.00	177	205.00	5688	297.00	828
68.00	766	140.00	157	206.00	23784	303.00	625
69.00	48280	141.00	2481	207.00	3124	304.00	170
70.00	222	142.00	824	208.00	849	308.00	75
73.00	474	143.00	679	209.00	168	314.00	238
74.00	5459	144.00	97	210.00	354	315.00	643
75.00	8373	145.00	111	211.00	911	316.00	288
76.00	3216	146.00	464	215.00	167	321.00	145
77.00	63088	147.00	1285	216.00	492	323.00	1574
78.00	4098	148.00	3525	217.00	6177	324.00	249
79.00	3357	149.00	673	218.00	732	327.00	240
80.00	2361	150.00	140	221.00	5622	328.00	123
81.00	3824	151.00	388	222.00	202	332.00	116
82.00	1046	152.00	197	223.00	1480	333.00	145
83.00	984	153.00	769	224.00	12590	334.00	1088
84.00	280	154.00	654	225.00	3091	335.00	208
85.00	674	155.00	1544	226.00	254	341.00	172
86.00	1189	156.00	1996	227.00	4932	346.00	310
87.00	592	157.00	598	228.00	818	352.00	508
88.00	224	158.00	423	229.00	1162	353.00	276
89.00	90	159.00	429	230.00	119	354.00	517
91.00	780	160.00	694	231.00	476	355.00	80

92.00	934	161.00	1193	233.00	83	365.00	2011
93.00	5961	162.00	336	234.00	295	366.00	237
94.00	433	163.00	100	235.00	300	371.00	101
95.00	133	164.00	97	236.00	162	372.00	897
96.00	339	165.00	922	237.00	449	373.00	165
97.00	116	166.00	761	239.00	168	383.00	177
98.00	4829	167.00	6070	240.00	144	390.00	86
99.00	3781	168.00	3181	241.00	236	402.00	245
100.00	330	169.00	504	242.00	771	403.00	502
101.00	2289	170.00	104	243.00	851	404.00	138
102.00	119	171.00	173	244.00	9664	421.00	356
103.00	671	172.00	468	245.00	1352	422.00	273
104.00	1246	173.00	626	246.00	1814	423.00	3205
105.00	1212	174.00	1018	247.00	300	424.00	810
106.00	442	175.00	1981	249.00	349	441.00	8864
107.00	16936	176.00	577	253.00	177	442.00	60568
108.00	2535	177.00	828	254.00	257	443.00	11828
109.00	409	178.00	262	255.00	47016	444.00	1210
110.00	29360	179.00	3529	256.00	7188		

Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\001.D

Date : 10-MAR-2022 10:15

Client ID: DFTPP

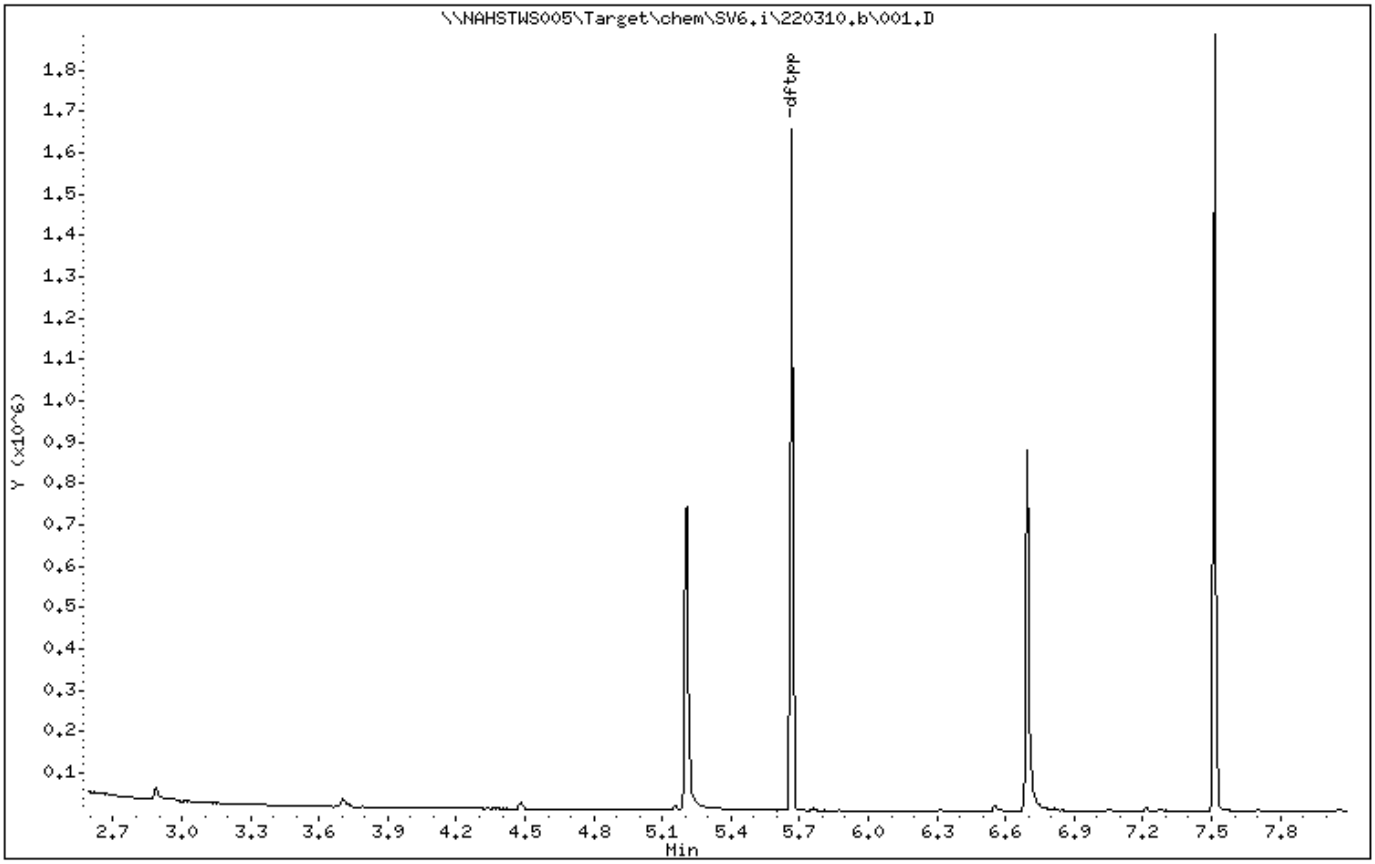
Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\001.D Page 2

Date : 10-MAR-2022 10:15

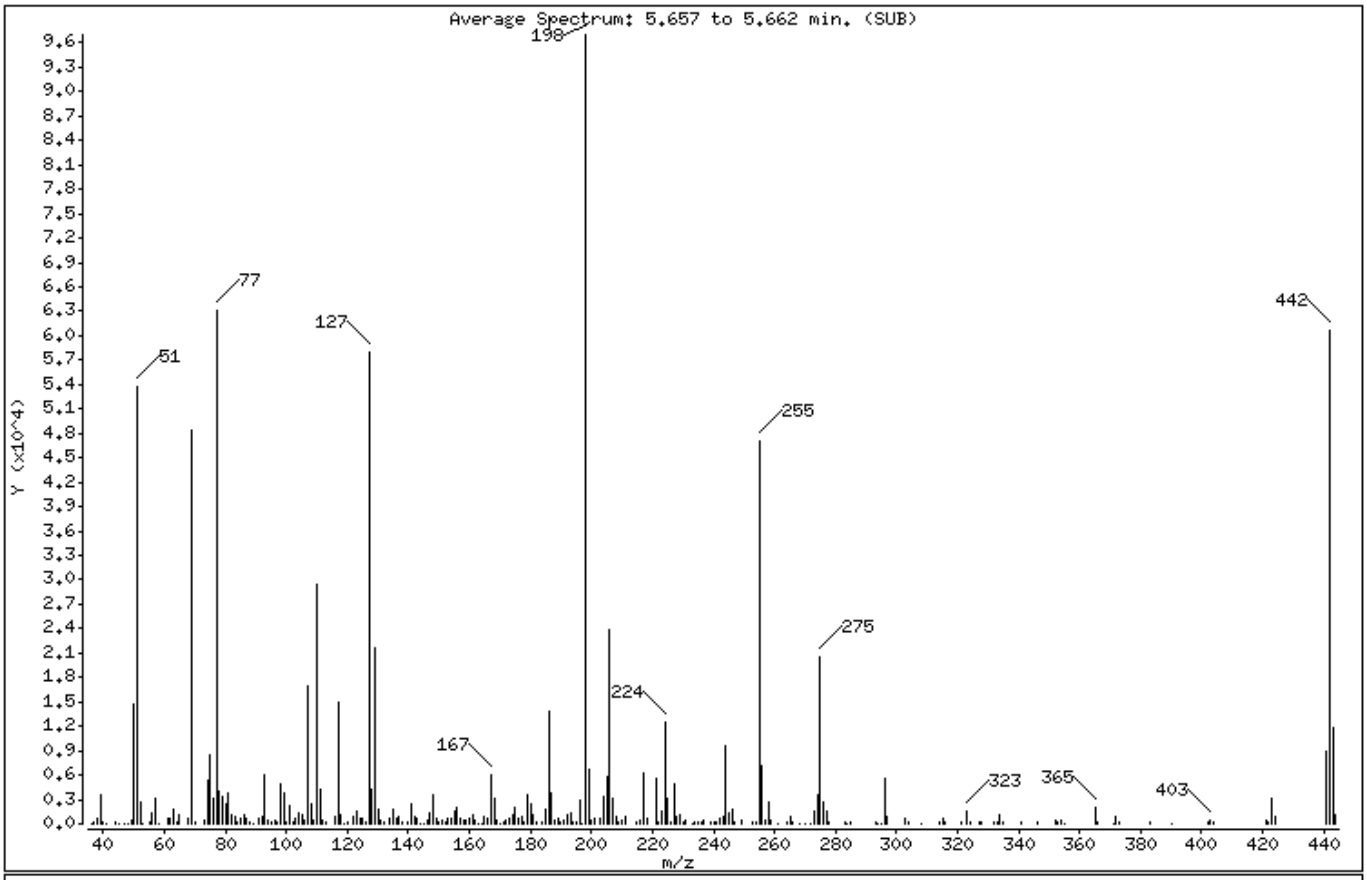
Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	55.44
68	Less than 2.00% of mass 69	0.79 (1.59)
69	Mass 69 relative abundance	49.78
70	Less than 2.00% of mass 69	0.23 (0.46)
127	10.00 - 80.00% of mass 198	59.67
197	Less than 2.00% of mass 198	0.09
199	5.00 - 9.00% of mass 198	6.91
275	10.00 - 60.00% of mass 198	21.18
365	1.00 - 100.00% of mass 198	2.07
441	Present, but less than mass 443	9.14
442	50.00 - 150.00% of mass 198	62.44
443	15.00 - 24.00% of mass 442	12.19 (19.53)

Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\001.D Page 3

Date : 10-MAR-2022 10:15

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 001.D
Spectrum: Average Spectrum: 5.657 to 5.662 min. (SUB)
Location of Maximum: 198.00
Number of points: 255

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	59	111.00	4304	180.00	2452	257.00	491
37.00	224	112.00	539	181.00	1144	258.00	2733
38.00	615	113.00	143	182.00	177	259.00	454
39.00	3676	116.00	789	184.00	192	261.00	82
40.00	317	117.00	14919	185.00	1728	264.00	185
41.00	107	118.00	1145	186.00	13758	265.00	973
44.00	143	119.00	105	187.00	3715	266.00	174
45.00	94	120.00	150	188.00	457	268.00	88
47.00	15	122.00	973	189.00	685	270.00	75
48.00	89	123.00	1516	190.00	117	272.00	103
49.00	508	124.00	642	191.00	390	273.00	1456
50.00	14754	125.00	696	192.00	1177	274.00	3568
51.00	53776	126.00	256	193.00	1358	275.00	20544
52.00	2771	127.00	57872	194.00	259	276.00	2620
53.00	81	128.00	4240	195.00	139	277.00	1638
55.00	257	129.00	21648	196.00	2928	278.00	262
56.00	1346	130.00	1884	197.00	89	283.00	139
57.00	3111	131.00	409	198.00	97000	284.00	97
58.00	105	132.00	154	199.00	6703	285.00	237
61.00	558	134.00	606	200.00	528	293.00	305
62.00	699	135.00	1740	201.00	612	294.00	85
63.00	1803	136.00	678	203.00	645	295.00	95
64.00	268	137.00	930	204.00	3334	296.00	5500
65.00	1049	138.00	177	205.00	5688	297.00	828
68.00	766	140.00	157	206.00	23784	303.00	625
69.00	48280	141.00	2481	207.00	3124	304.00	170
70.00	222	142.00	824	208.00	849	308.00	75
73.00	474	143.00	679	209.00	168	314.00	238
74.00	5459	144.00	97	210.00	354	315.00	643
75.00	8373	145.00	111	211.00	911	316.00	288
76.00	3216	146.00	464	215.00	167	321.00	145
77.00	63088	147.00	1285	216.00	492	323.00	1574
78.00	4098	148.00	3525	217.00	6177	324.00	249
79.00	3357	149.00	673	218.00	732	327.00	240
80.00	2361	150.00	140	221.00	5622	328.00	123

Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\001.D

Date : 10-MAR-2022 10:15

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 001.D
Spectrum: Average Spectrum: 5.657 to 5.662 min. (SUB)
Location of Maximum: 198.00
Number of points: 255

m/z	Y	m/z	Y	m/z	Y	m/z	Y
81.00	3824	151.00	388	222.00	202	332.00	116
82.00	1046	152.00	197	223.00	1480	333.00	145
83.00	984	153.00	769	224.00	12590	334.00	1088
84.00	280	154.00	654	225.00	3091	335.00	208
85.00	674	155.00	1544	226.00	254	341.00	172
86.00	1189	156.00	1996	227.00	4932	346.00	310
87.00	592	157.00	598	228.00	818	352.00	508
88.00	224	158.00	423	229.00	1162	353.00	276
89.00	90	159.00	429	230.00	119	354.00	517
91.00	780	160.00	694	231.00	476	355.00	80
92.00	934	161.00	1193	233.00	83	365.00	2011
93.00	5961	162.00	336	234.00	295	366.00	237
94.00	433	163.00	100	235.00	300	371.00	101
95.00	133	164.00	97	236.00	162	372.00	897
96.00	339	165.00	922	237.00	449	373.00	165
97.00	116	166.00	761	239.00	168	383.00	177
98.00	4829	167.00	6070	240.00	144	390.00	86
99.00	3781	168.00	3181	241.00	236	402.00	245
100.00	330	169.00	504	242.00	771	403.00	502
101.00	2289	170.00	104	243.00	851	404.00	138
102.00	119	171.00	173	244.00	9664	421.00	356
103.00	671	172.00	468	245.00	1352	422.00	273
104.00	1246	173.00	626	246.00	1814	423.00	3205
105.00	1212	174.00	1018	247.00	300	424.00	810
106.00	442	175.00	1981	249.00	349	441.00	8864
107.00	16936	176.00	577	253.00	177	442.00	60568
108.00	2535	177.00	828	254.00	257	443.00	11828
109.00	409	178.00	262	255.00	47016	444.00	1210
110.00	29360	179.00	3529	256.00	7188		

Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\002.D Page 1
Report Date: 25-Aug-2022 16:08

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220310.b\002.D
Lab Smp Id: 1 4 DX-0.08 Client Smp ID: 1 4 DX-0.08
Inj Date : 10-MAR-2022 10:25 MS Autotune Date: 09-MAR-2022 11:12
Operator : LG Inst ID: SV6.i
Smp Info : 1 4 DX-0.08;1 4 DX-0.08
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220310.b\DXSIM.m
Meth Date : 25-Aug-2022 16:08 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 10:25 Cal File: 002.D
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.790	3.790	(1.000)	6809	0.10000	(aM)
* 45 Naphthalene-d8	136	4.918	4.918	(1.000)	24566	0.10000	
$ 33 Nitrobenzene-d5	82	4.262	4.262	(0.867)	6468	0.08000	0.07898(M)
* 86 Acenaphthene-d10	164	6.603	6.603	(1.000)	12954	0.10000	
$ 69 2-Fluorobiphenyl	172	5.943	5.943	(0.900)	16771	0.08000	0.08317
* 126 Phenanthrene-d10	188	8.053	8.053	(1.000)	26502	0.10000	
* 182 Chrysene-d12	240	10.958	10.958	(1.000)	11837	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.656	9.656	(0.881)	16413	0.08000	0.07375(M)
* 198 Perylene-d12	264	13.085	13.085	(1.000)	8294	0.10000	
1 1,4-Dioxane	58	2.005	2.005	(0.529)	245	0.08000	0.08765(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01140090

Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\002.D

Page 1

Date : 10-MAR-2022 10:25

Client ID: 1 4 DX-0.08

Instrument: SV6.i

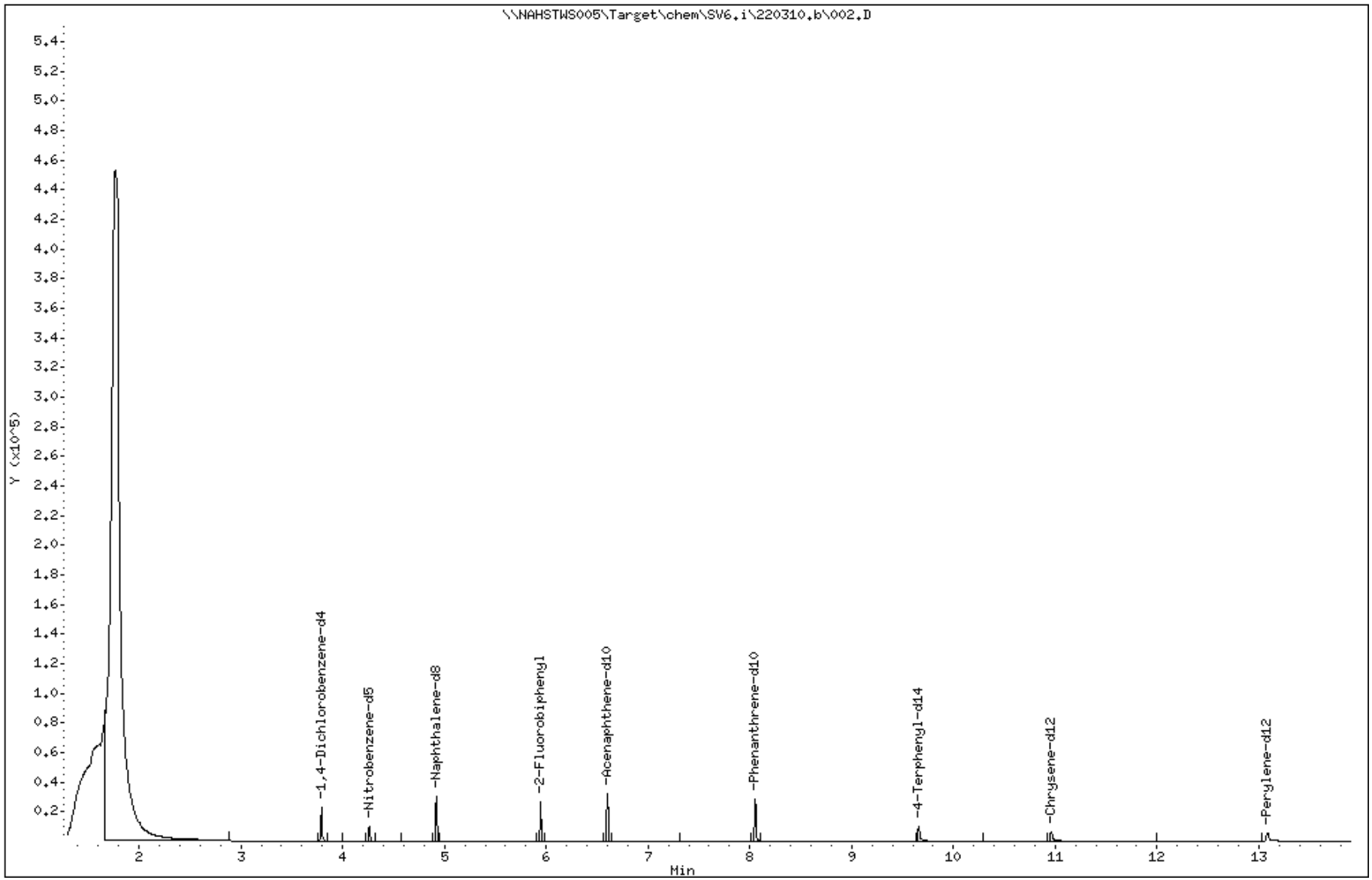
Sample Info: 1 4 DX-0.08;1 4 DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



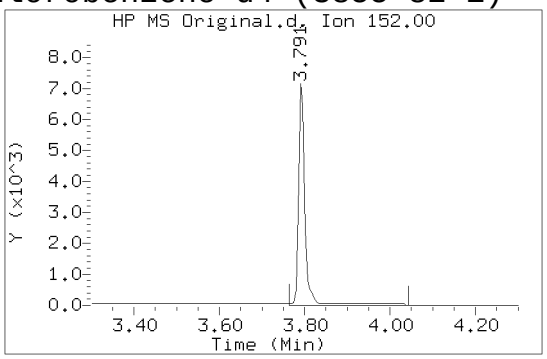
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\002.D
Inj Date : 10-MAR-2022 10:25
InstruID : SV6.i
LabSampID : 1 4 DX-0.08

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

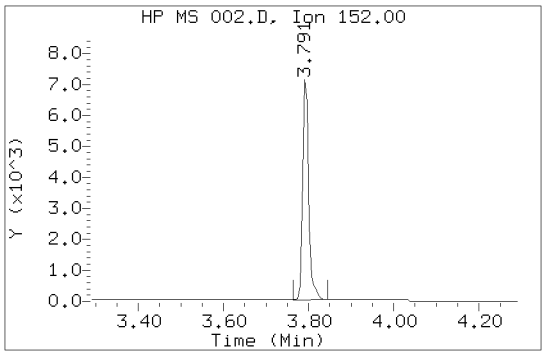
BEFORE

MASS
152
AREA
7703
HEIGHT
7154
25-Aug-2022
16:02
linh
pham



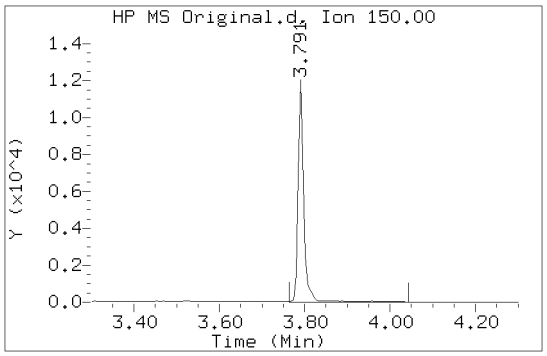
AFTER

MASS
152
AREA
6809
HEIGHT
7102
25-Aug-2022
16:08
linh
pham



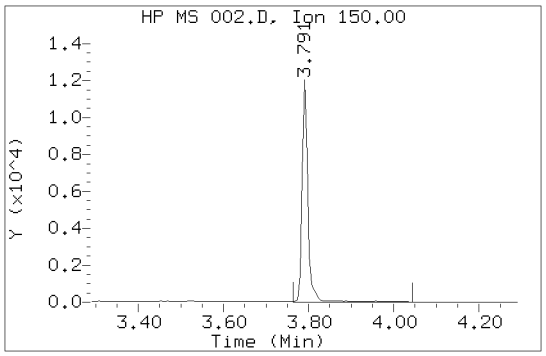
BEFORE

MASS
150
AREA
11466
HEIGHT
12036
25-Aug-2022
16:02
linh
pham



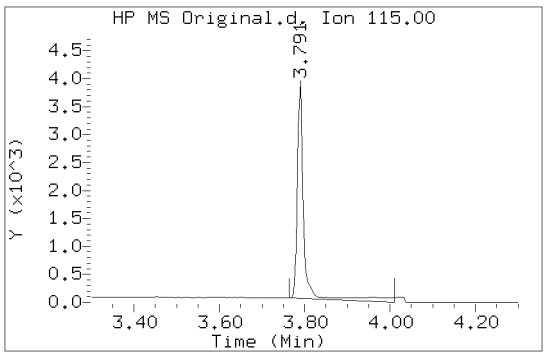
AFTER

MASS
150
AREA
11466
HEIGHT
12036
25-Aug-2022
16:08
linh
pham



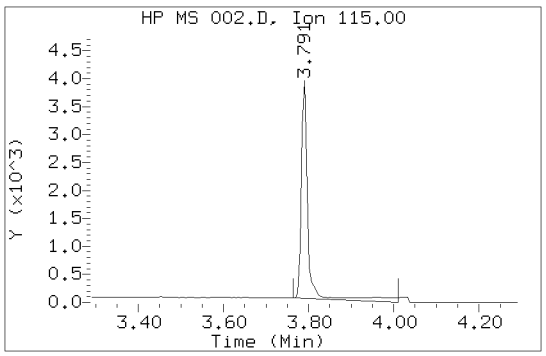
BEFORE

MASS
115
AREA
4211
HEIGHT
3890
25-Aug-2022
16:02
linh
pham



AFTER

MASS
115
AREA
4211
HEIGHT
3890
25-Aug-2022
16:08
linh
pham

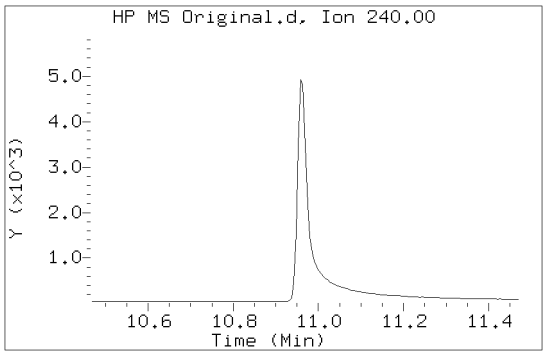


Chrysene-d12 (1719-03-5)

Reason Code:

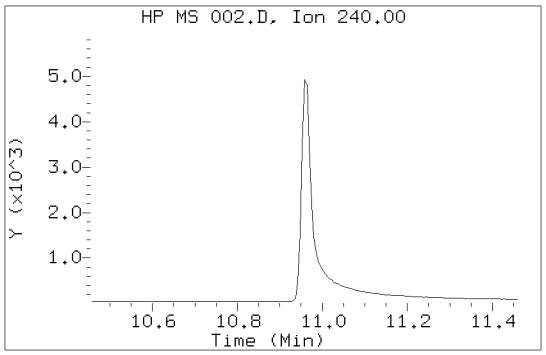
BEFORE

MASS
240
AREA
0
HEIGHT
0
25-Aug-2022
16:02
linh
pham



AFTER

MASS
240
AREA
11837
HEIGHT
4871
25-Aug-2022
16:08
linh
pham

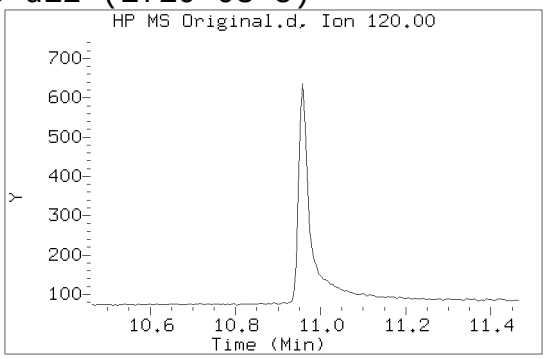


Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\002.D
Inj Date : 10-MAR-2022 10:25
InstruID : SV6.i
LabSampID : 1 4 DX-0.08

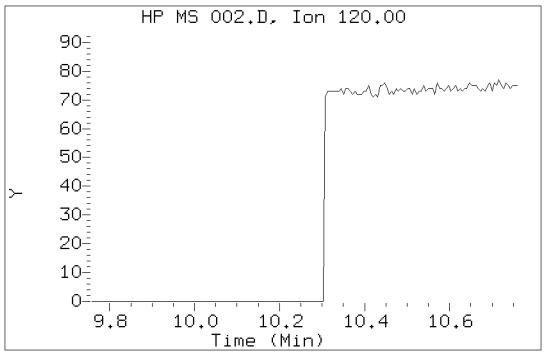
Chrysene-d12 (1719-03-5)

Reason Code:

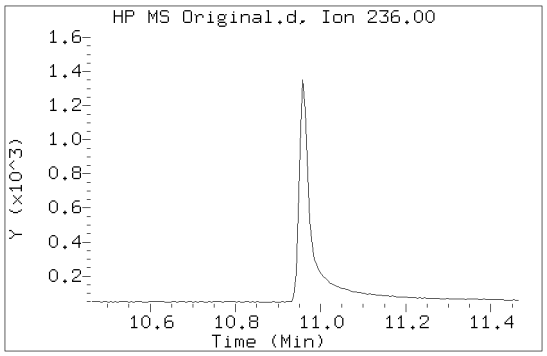
BEFORE
MASS
120
AREA
0
HEIGHT
0
25-Aug-2022
16:02
linh
pham



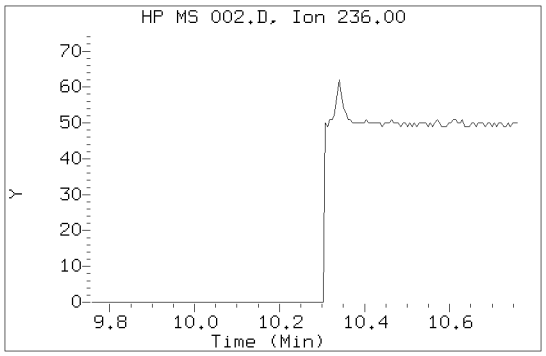
AFTER
MASS
120
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
236
AREA
0
HEIGHT
0
25-Aug-2022
16:02
linh
pham



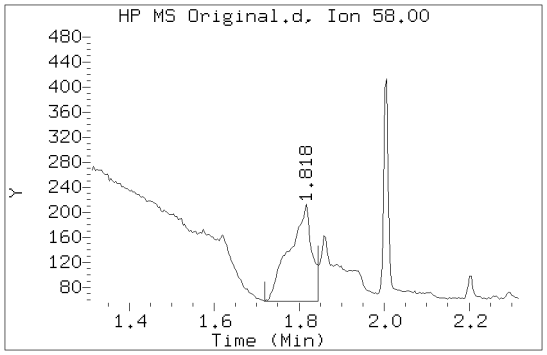
AFTER
MASS
236
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



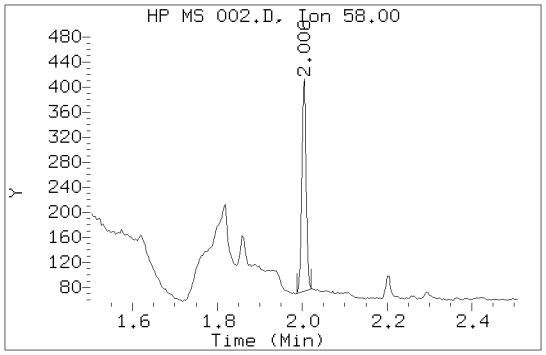
1,4-Dioxane ()

Reason Code:

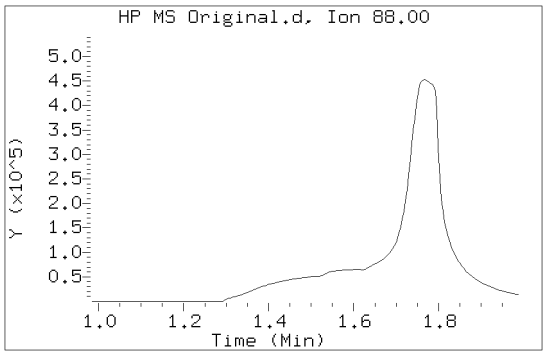
BEFORE
MASS
58
AREA
561
HEIGHT
155
25-Aug-2022
16:02
linh
pham



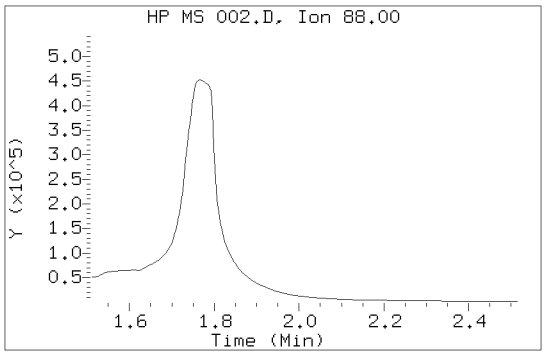
AFTER
MASS
58
AREA
245
HEIGHT
338
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
88
AREA
0
HEIGHT
0
25-Aug-2022
16:02
linh
pham



AFTER
MASS
88
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



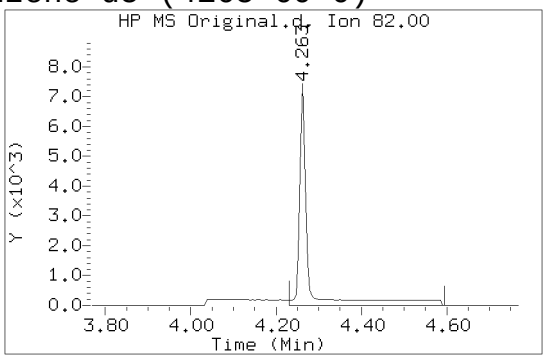
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\002.D
Inj Date : 10-MAR-2022 10:25
InstruID : SV6.i
LabSampID : 1 4 DX-0.08

Nitrobenzene-d5 (4165-60-0)

Reason Code:

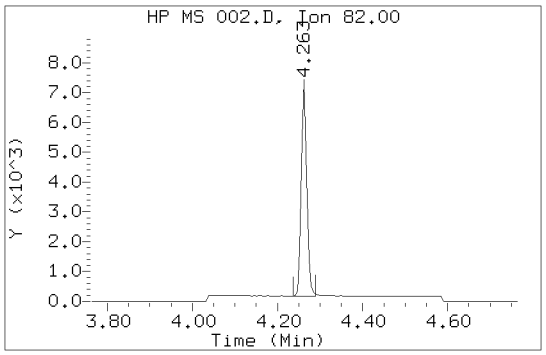
BEFORE

MASS
82
AREA
10168
HEIGHT
7437
25-Aug-2022
16:02
linh
pham



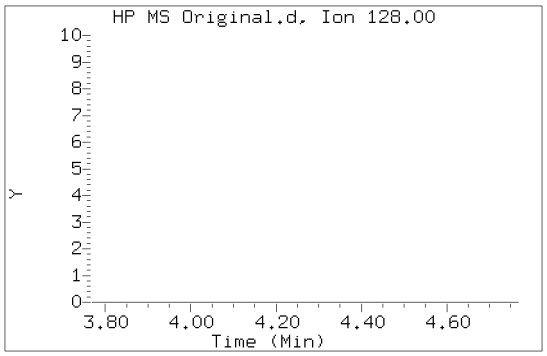
AFTER

MASS
82
AREA
6468
HEIGHT
7271
25-Aug-2022
16:08
linh
pham



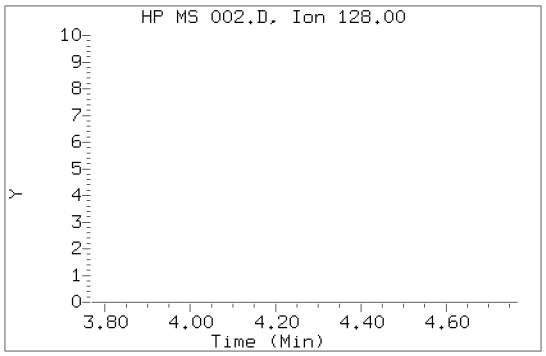
BEFORE

MASS
128
AREA
0
HEIGHT
0
25-Aug-2022
16:02
linh
pham



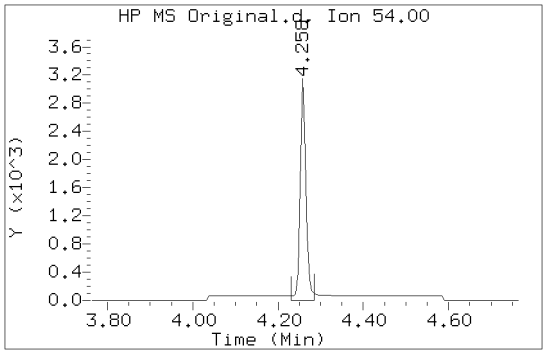
AFTER

MASS
128
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



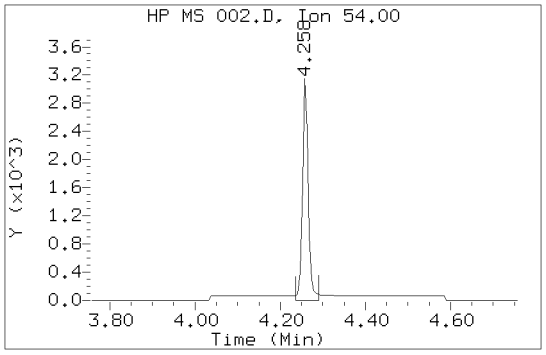
BEFORE

MASS
54
AREA
2990
HEIGHT
3148
25-Aug-2022
16:02
linh
pham



AFTER

MASS
54
AREA
2995
HEIGHT
3148
25-Aug-2022
16:08
linh
pham

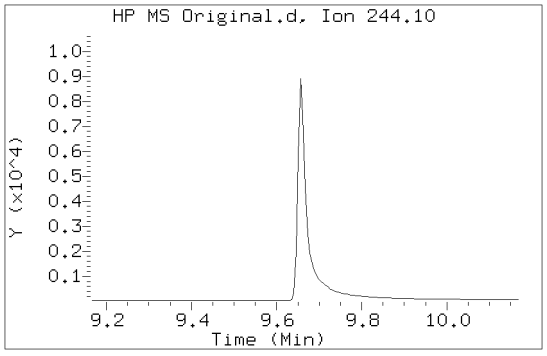


4-Terphenyl-d14 (1718-51-0)

Reason Code:

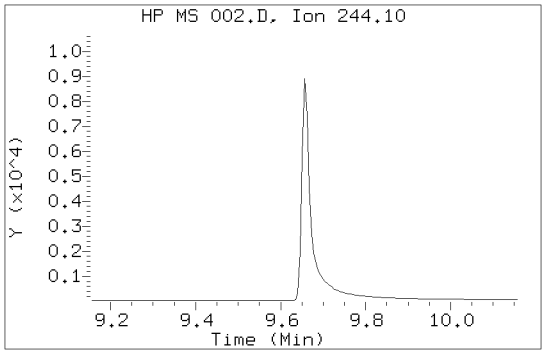
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
25-Aug-2022
16:02
linh
pham



AFTER

MASS
244.1
AREA
16413
HEIGHT
8885
25-Aug-2022
16:08
linh
pham

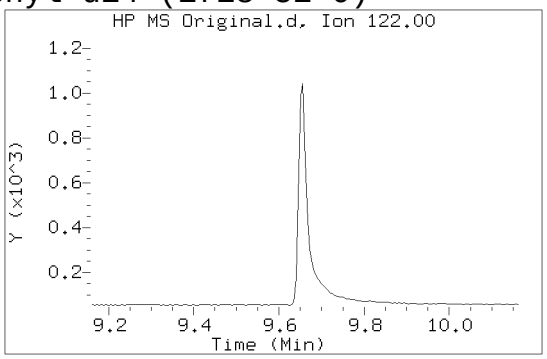


Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\002.D
Inj Date : 10-MAR-2022 10:25
InstruID : SV6.i
LabSampID : 1 4 DX-0.08

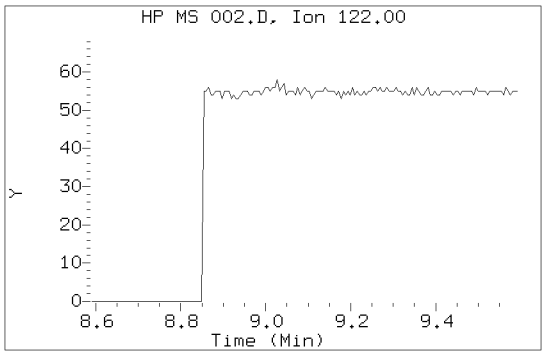
4-Terphenyl-d14 (1718-51-0)

Reason Code:

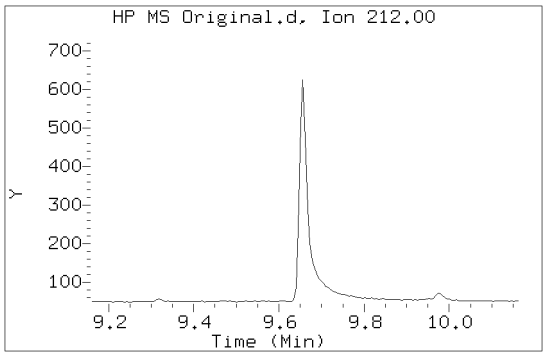
BEFORE
MASS
122
AREA
0
HEIGHT
0
25-Aug-2022
16:02
linh
pham



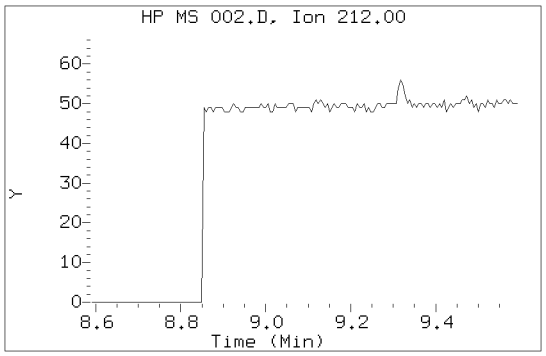
AFTER
MASS
122
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
212
AREA
0
HEIGHT
0
25-Aug-2022
16:02
linh
pham



AFTER
MASS
212
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\003.D Page 1
Report Date: 25-Aug-2022 16:08

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220310.b\003.D
Lab Smp Id: 1 4 DX-0.01 Client Smp ID: 1 4 DX-0.01
Inj Date : 10-MAR-2022 10:47 MS Autotune Date: 09-MAR-2022 11:12
Operator : LG Inst ID: SV6.i
Smp Info : 1 4 DX-0.01;1 4 DX-0.01
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220310.b\DXSIM.m
Meth Date : 25-Aug-2022 16:08 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 10:25 Cal File: 002.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.795	3.795	(1.000)	5529	0.10000	(a)
* 45 Naphthalene-d8	136	4.922	4.922	(1.000)	16961	0.10000	(M)
$ 33 Nitrobenzene-d5	82	4.262	4.262	(0.866)	608	0.01000	0.01075(QM)
* 86 Acenaphthene-d10	164	6.603	6.603	(1.000)	9707	0.10000	
$ 69 2-Fluorobiphenyl	172	5.943	5.943	(0.900)	1519	0.01000	0.01005(QM)
* 126 Phenanthrene-d10	188	8.058	8.058	(1.000)	16382	0.10000	
* 182 Chrysene-d12	240	10.963	10.963	(1.000)	6576	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.661	9.661	(0.881)	1253	0.01000	0.01013(M)
* 198 Perylene-d12	264	13.090	13.090	(1.000)	3752	0.10000	
1 1,4-Dioxane	58	1.994	1.994	(0.525)	21	0.01000	0.009252(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.

01140096

Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\003.D

Date : 10-MAR-2022 10:47

Client ID: 1 4 DX-0.01

Instrument: SV6.i

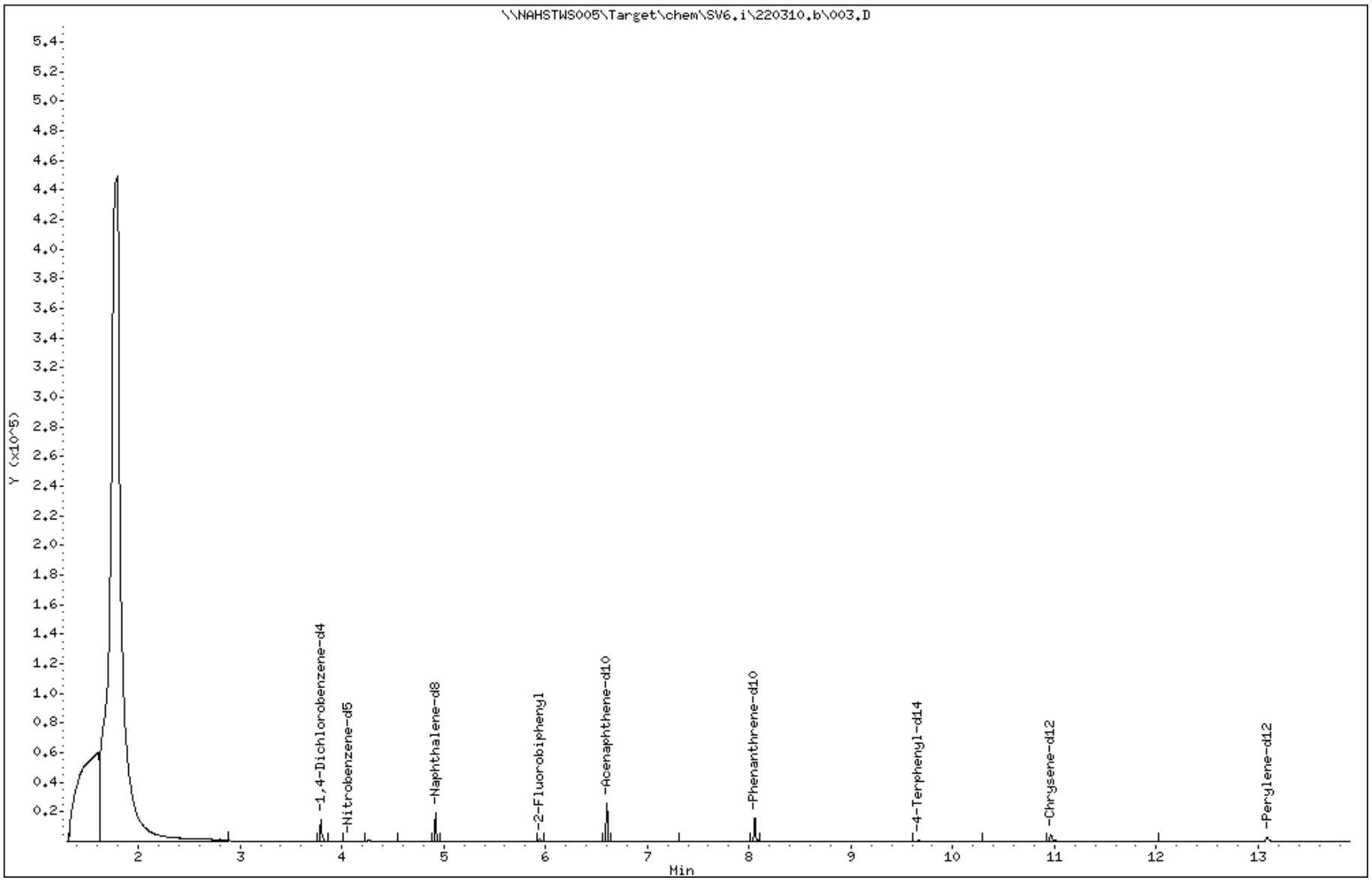
Sample Info: 1 4 DX-0.01;1 4 DX-0.01

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



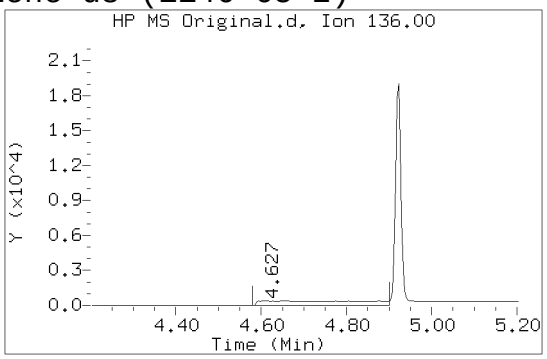
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\003.D
Inj Date : 10-MAR-2022 10:47
InstruID : SV6.i
LabSampID : 1 4 DX-0.01

Naphthalene-d8 (1146-65-2)

Reason Code:

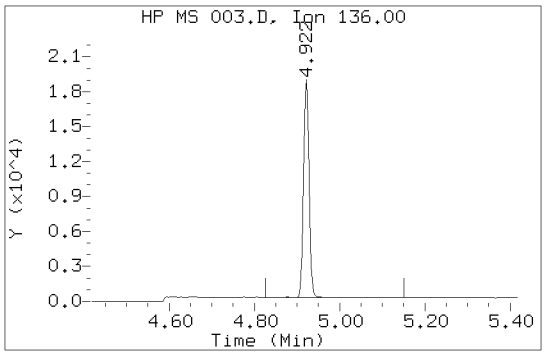
BEFORE

MASS
136
AREA
6591
HEIGHT
377
25-Aug-2022
16:04
linh
pham



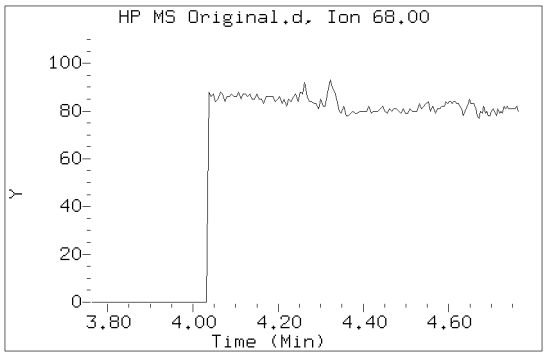
AFTER

MASS
136
AREA
16961
HEIGHT
18707
25-Aug-2022
16:08
linh
pham



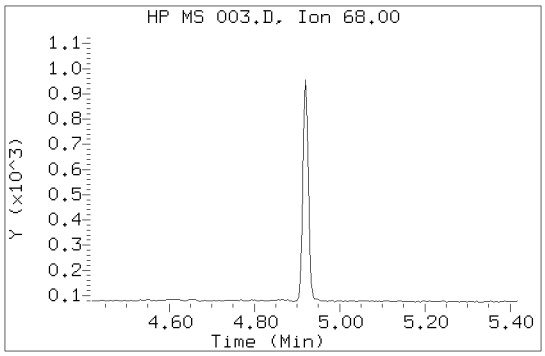
BEFORE

MASS
68
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
68
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham

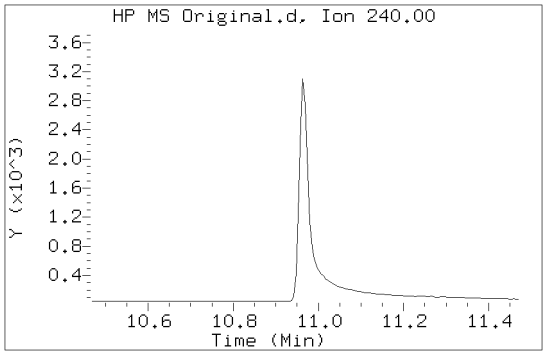


Chrysene-d12 (1719-03-5)

Reason Code:

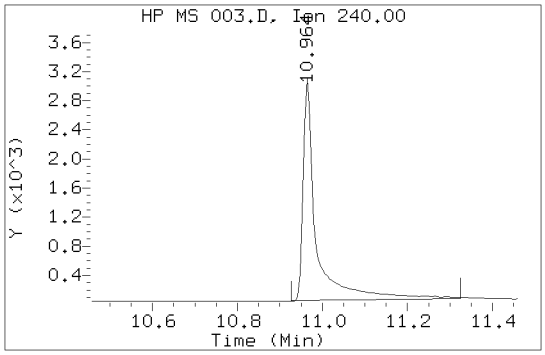
BEFORE

MASS
240
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



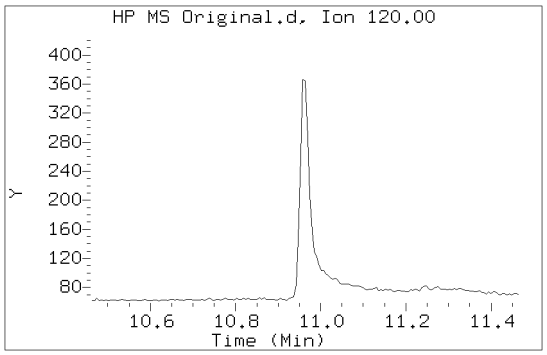
AFTER

MASS
240
AREA
6576
HEIGHT
3041
25-Aug-2022
16:08
linh
pham



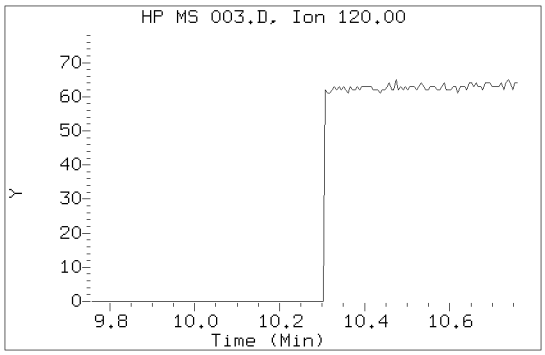
BEFORE

MASS
120
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
120
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



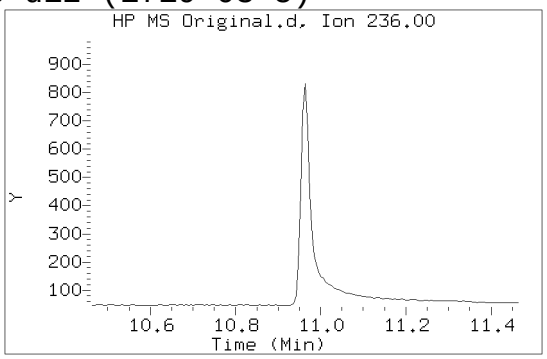
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\003.D
Inj Date : 10-MAR-2022 10:47
InstruID : SV6.i
LabSampID : 1 4 DX-0.01

Chrysene-d12 (1719-03-5)

Reason Code:

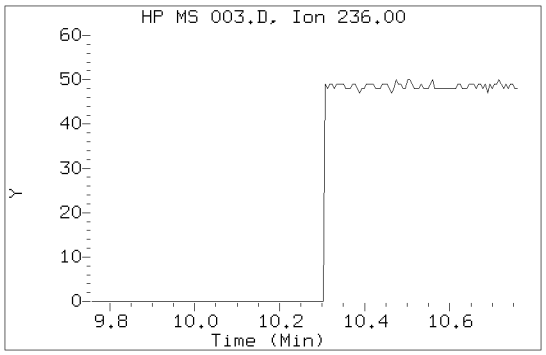
BEFORE

MASS
236
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
236
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham

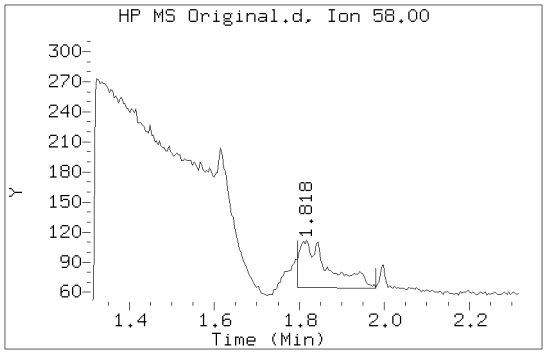


1,4-Dioxane ()

Reason Code:

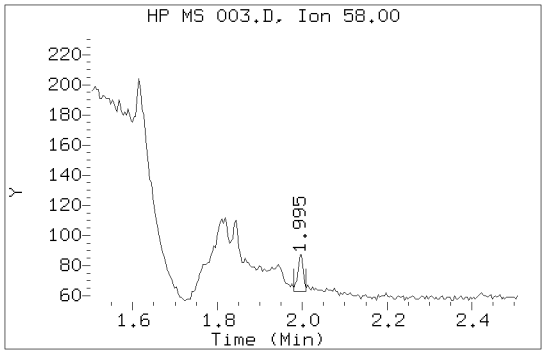
BEFORE

MASS
58
AREA
231
HEIGHT
47
25-Aug-2022
16:04
linh
pham



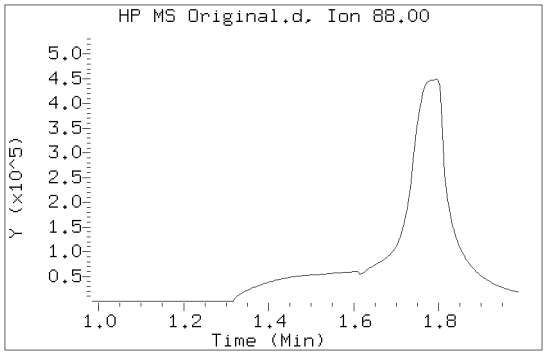
AFTER

MASS
58
AREA
21
HEIGHT
24
25-Aug-2022
16:08
linh
pham



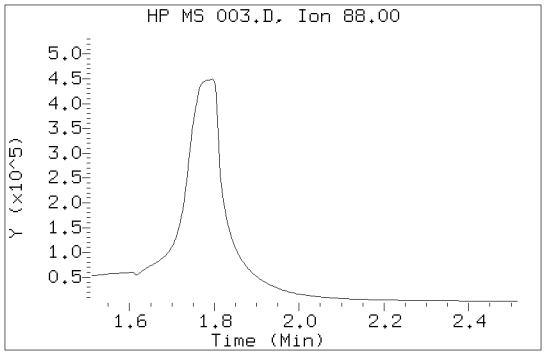
BEFORE

MASS
88
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
88
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham

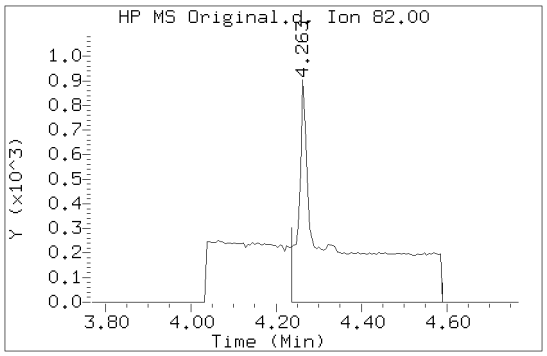


Nitrobenzene-d5 (4165-60-0)

Reason Code:

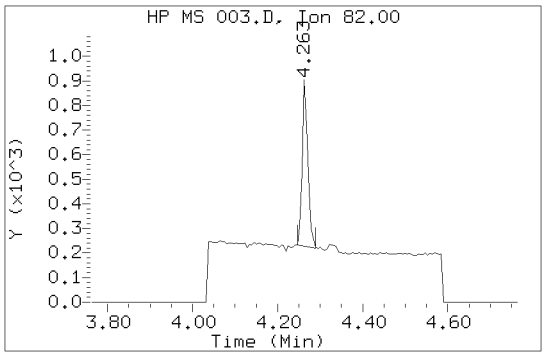
BEFORE

MASS
82
AREA
4980
HEIGHT
904
25-Aug-2022
16:04
linh
pham



AFTER

MASS
82
AREA
608
HEIGHT
676
25-Aug-2022
16:08
linh
pham



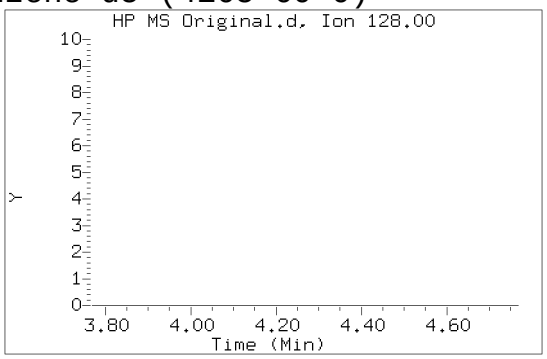
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\003.D
Inj Date : 10-MAR-2022 10:47
InstruID : SV6.i
LabSampID : 1 4 DX-0.01

Nitrobenzene-d5 (4165-60-0)

Reason Code:

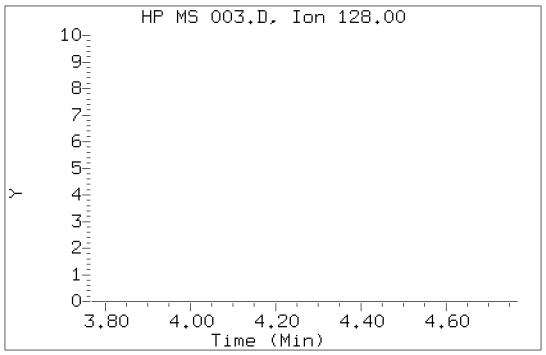
BEFORE

MASS
128
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



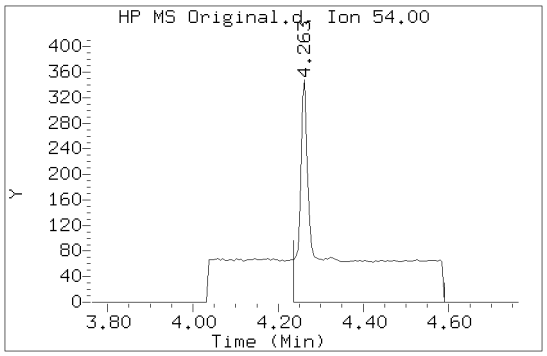
AFTER

MASS
128
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



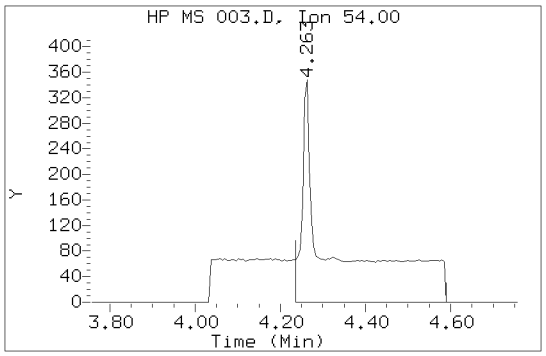
BEFORE

MASS
54
AREA
1660
HEIGHT
348
25-Aug-2022
16:04
linh
pham



AFTER

MASS
54
AREA
1660
HEIGHT
348
25-Aug-2022
16:08
linh
pham

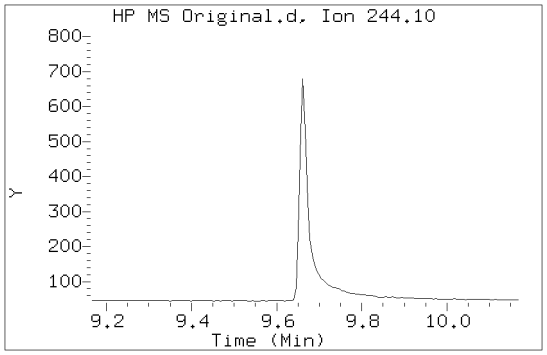


4-Terphenyl-d14 (1718-51-0)

Reason Code:

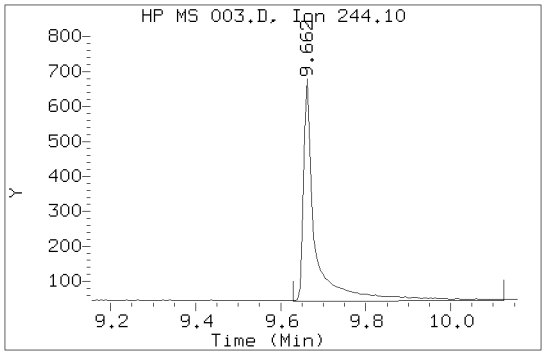
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



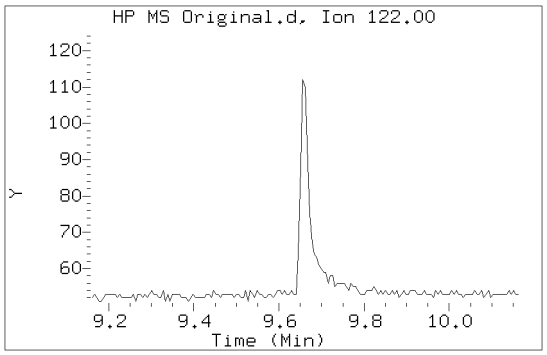
AFTER

MASS
244.1
AREA
1253
HEIGHT
635
25-Aug-2022
16:08
linh
pham



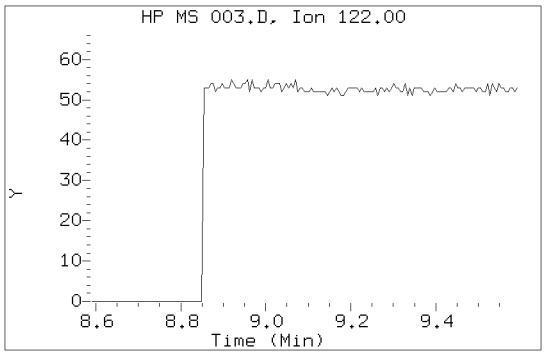
BEFORE

MASS
122
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
122
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



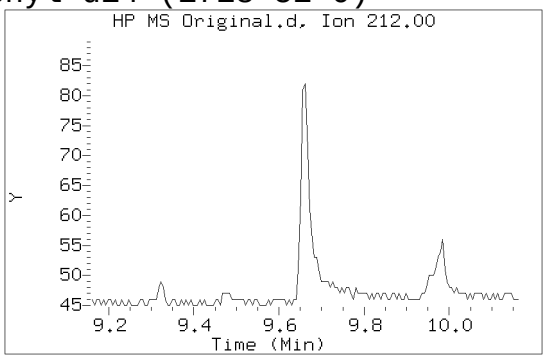
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\003.D
Inj Date : 10-MAR-2022 10:47
InstruID : SV6.i
LabSampID : 1 4 DX-0.01

4-Terphenyl-d14 (1718-51-0)

Reason Code:

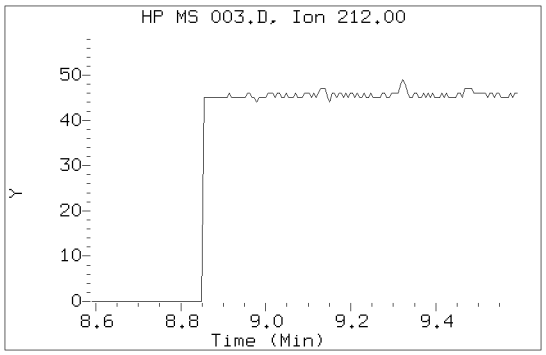
BEFORE

MASS
212
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
212
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham

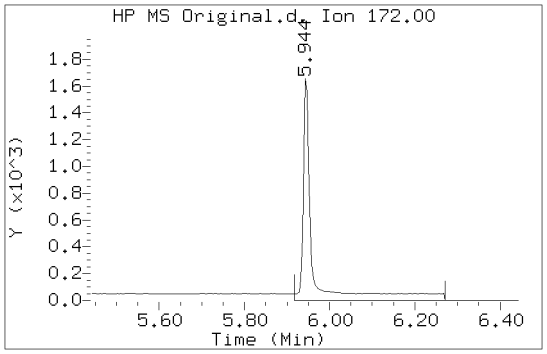


2-Fluorobiphenyl (321-60-8)

Reason Code:

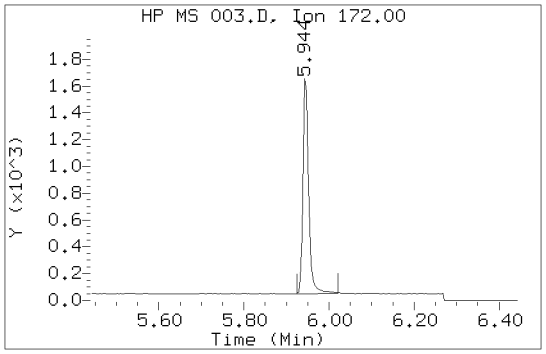
BEFORE

MASS
172
AREA
2590
HEIGHT
1655
25-Aug-2022
16:04
linh
pham



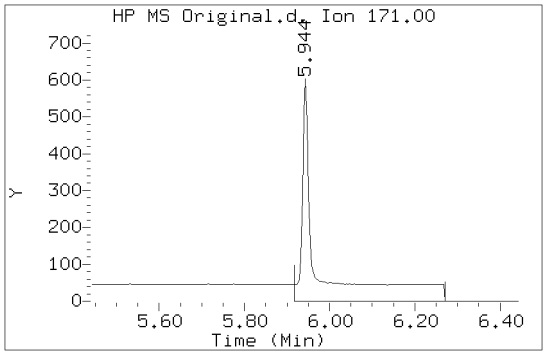
AFTER

MASS
172
AREA
1519
HEIGHT
1606
25-Aug-2022
16:08
linh
pham



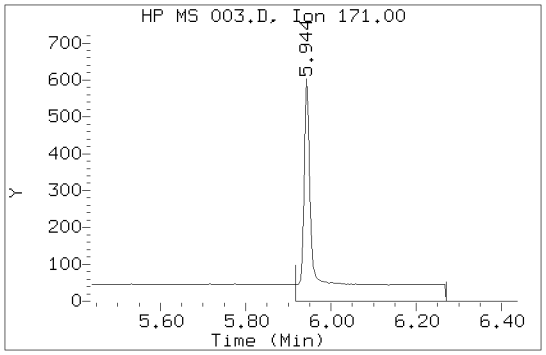
BEFORE

MASS
171
AREA
1483
HEIGHT
603
25-Aug-2022
16:04
linh
pham



AFTER

MASS
171
AREA
1483
HEIGHT
603
25-Aug-2022
16:08
linh
pham



Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\004.D Page 1
Report Date: 25-Aug-2022 16:08

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220310.b\004.D
Lab Smp Id: 1 4 DX-0.03 Client Smp ID: 1 4 DX-0.03
Inj Date : 10-MAR-2022 11:05 MS Autotune Date: 09-MAR-2022 11:12
Operator : LG Inst ID: SV6.i
Smp Info : 1 4 DX-0.03;1 4 DX-0.03
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220310.b\DXSIM.m
Meth Date : 25-Aug-2022 16:08 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 10:47 Cal File: 003.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.790	3.790	(1.000)	4850	0.10000	(aM)
* 45 Naphthalene-d8	136	4.918	4.918	(1.000)	18345	0.10000	(M)
$ 33 Nitrobenzene-d5	82	4.262	4.262	(0.867)	1854	0.03000	0.03032(QM)
* 86 Acenaphthene-d10	164	6.603	6.603	(1.000)	9938	0.10000	
$ 69 2-Fluorobiphenyl	172	5.943	5.943	(0.900)	4488	0.03000	0.02901(Q)
* 126 Phenanthrene-d10	188	8.053	8.053	(1.000)	16949	0.10000	
* 182 Chrysene-d12	240	10.963	10.963	(1.000)	7290	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.656	9.656	(0.881)	4004	0.03000	0.02921(M)
* 198 Perylene-d12	264	13.090	13.090	(1.000)	4319	0.10000	
1 1,4-Dioxane	58	1.990	1.990	(0.525)	57	0.03000	0.02863(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.

01140102

Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\004.D

Date : 10-MAR-2022 11:05

Client ID: 1 4 DX-0.03

Instrument: SV6.i

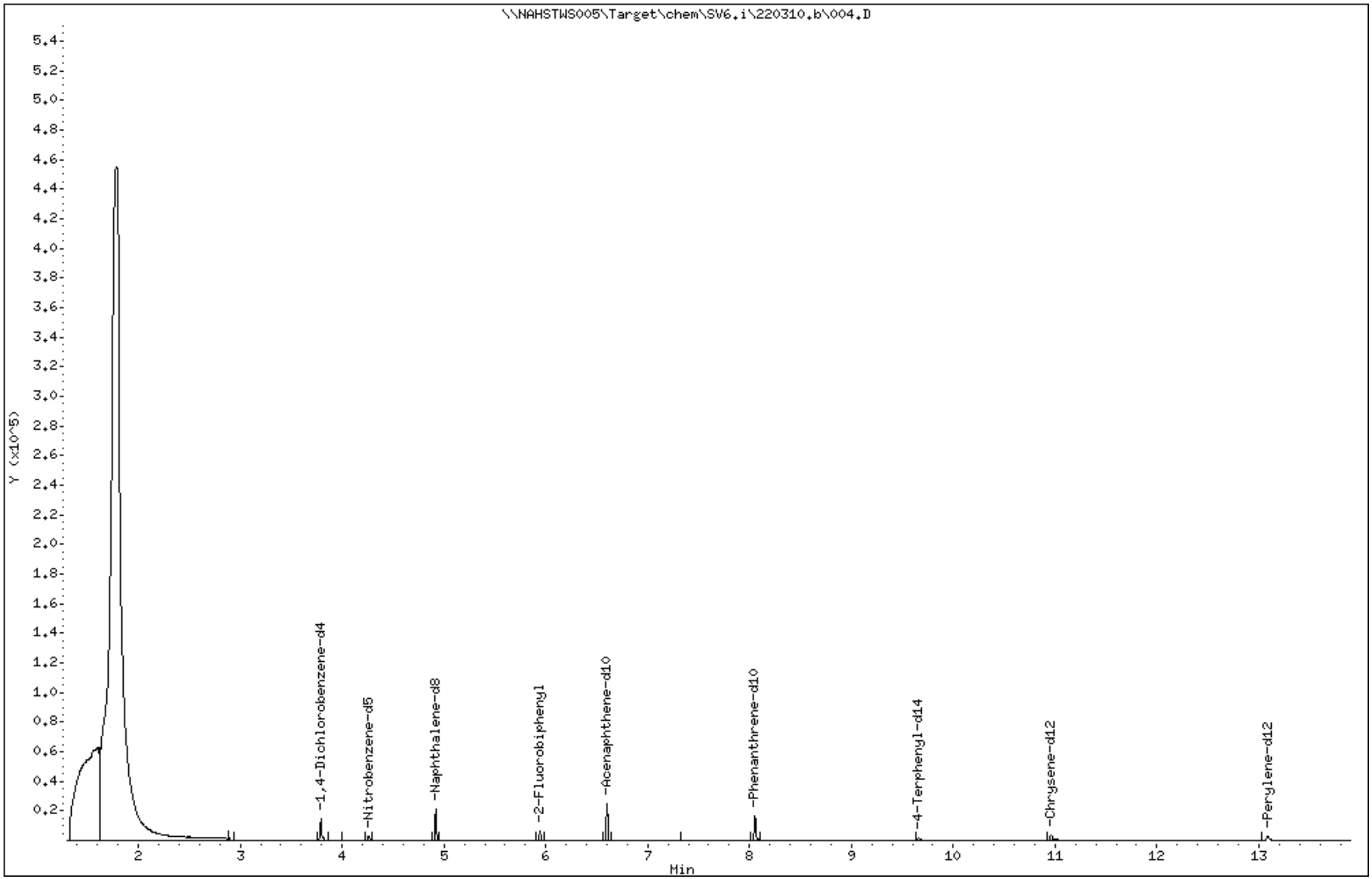
Sample Info: 1 4 DX-0.03;1 4 DX-0.03

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



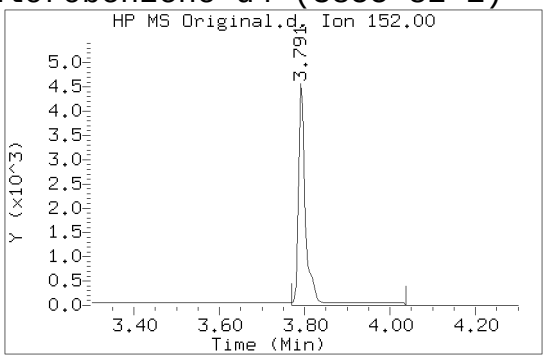
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\004.D
Inj Date : 10-MAR-2022 11:05
InstruID : SV6.i
LabSampID : 1 4 DX-0.03

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

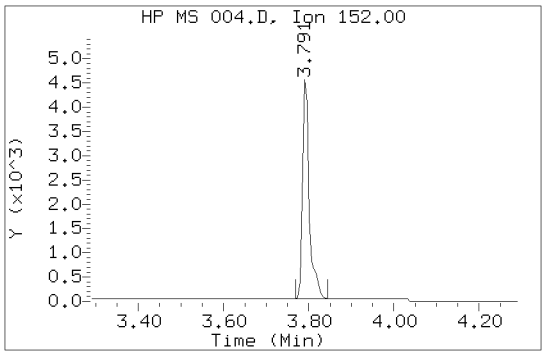
BEFORE

MASS
152
AREA
5742
HEIGHT
4567
25-Aug-2022
16:04
linh
pham



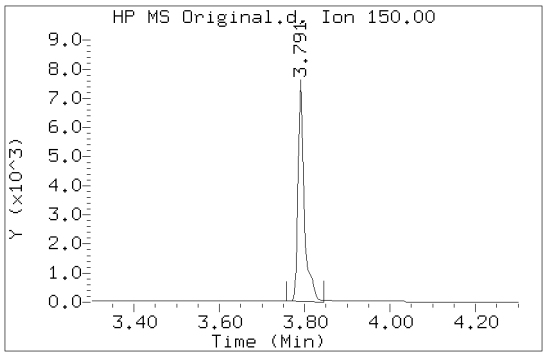
AFTER

MASS
152
AREA
4850
HEIGHT
4511
25-Aug-2022
16:08
linh
pham



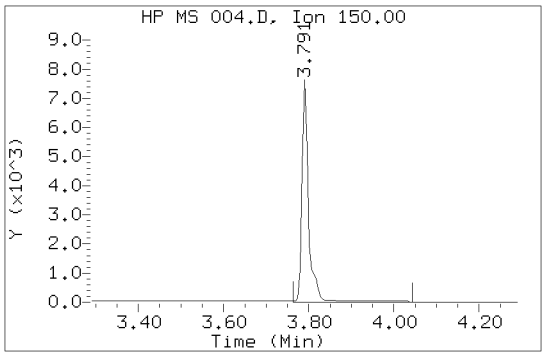
BEFORE

MASS
150
AREA
7811
HEIGHT
7601
25-Aug-2022
16:04
linh
pham



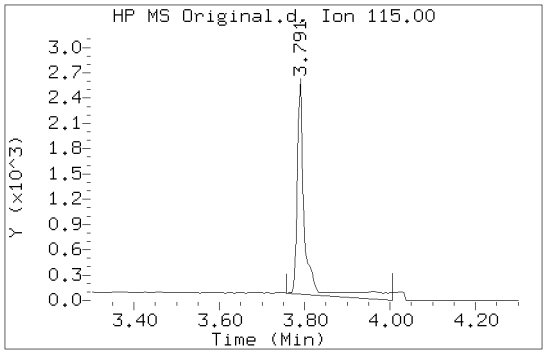
AFTER

MASS
150
AREA
8525
HEIGHT
7633
25-Aug-2022
16:08
linh
pham



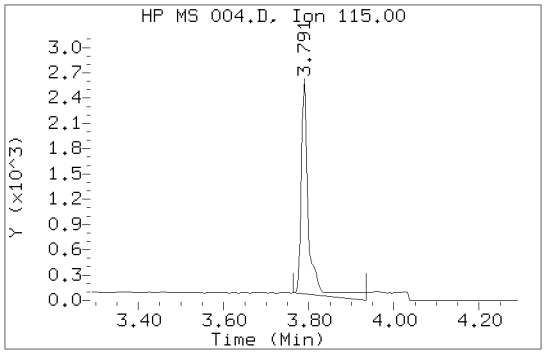
BEFORE

MASS
115
AREA
3339
HEIGHT
2555
25-Aug-2022
16:04
linh
pham



AFTER

MASS
115
AREA
3101
HEIGHT
2555
25-Aug-2022
16:08
linh
pham

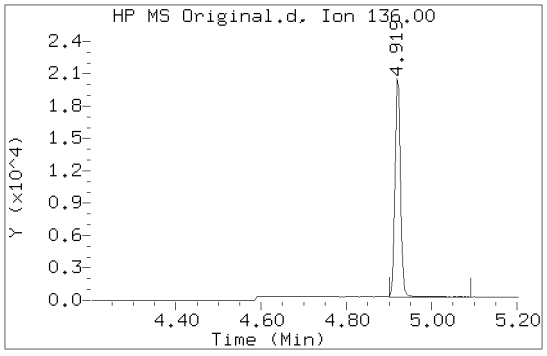


Naphthalene-d8 (1146-65-2)

Reason Code:

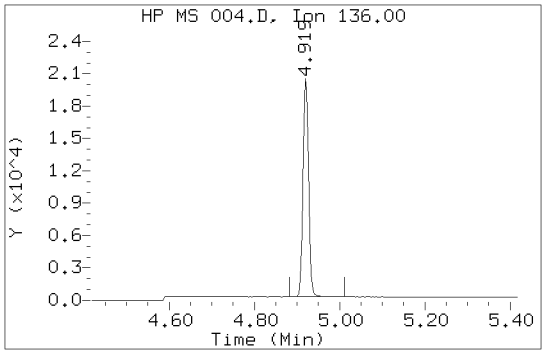
BEFORE

MASS
136
AREA
18381
HEIGHT
20218
25-Aug-2022
16:04
linh
pham



AFTER

MASS
136
AREA
18345
HEIGHT
20214
25-Aug-2022
16:08
linh
pham



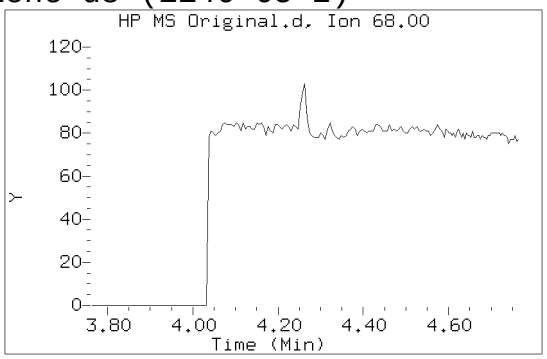
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\004.D
Inj Date : 10-MAR-2022 11:05
InstruID : SV6.i
LabSampID : 1 4 DX-0.03

Naphthalene-d8 (1146-65-2)

Reason Code:

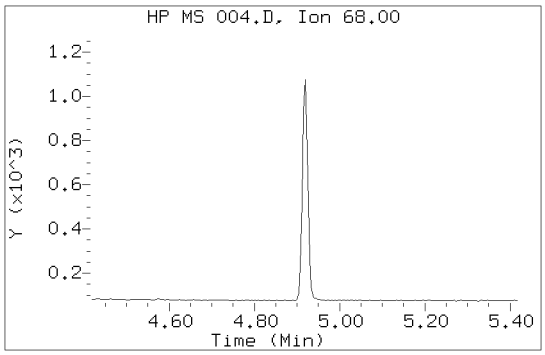
BEFORE

MASS
68
AREA
905
HEIGHT
999
25-Aug-2022
16:04
linh
pham



AFTER

MASS
68
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham

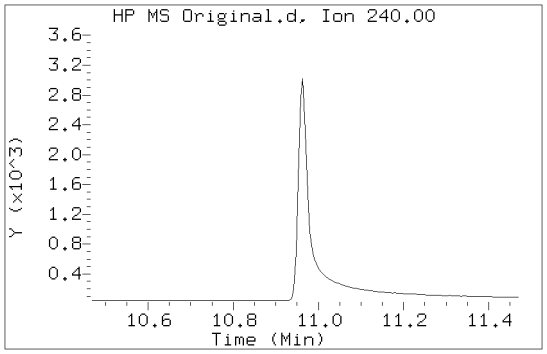


Chrysene-d12 (1719-03-5)

Reason Code:

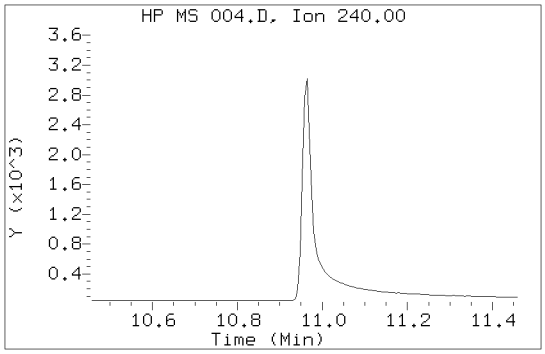
BEFORE

MASS
240
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



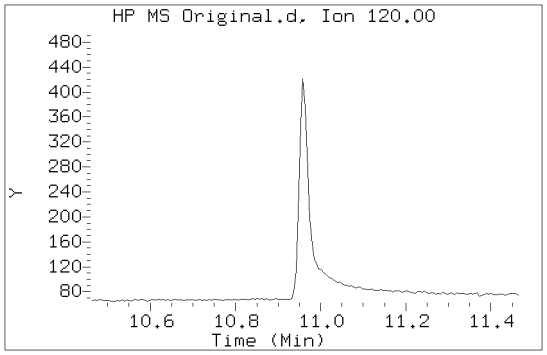
AFTER

MASS
240
AREA
7290
HEIGHT
2973
25-Aug-2022
16:08
linh
pham



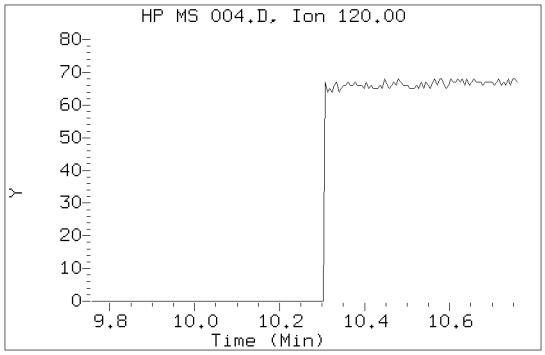
BEFORE

MASS
120
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



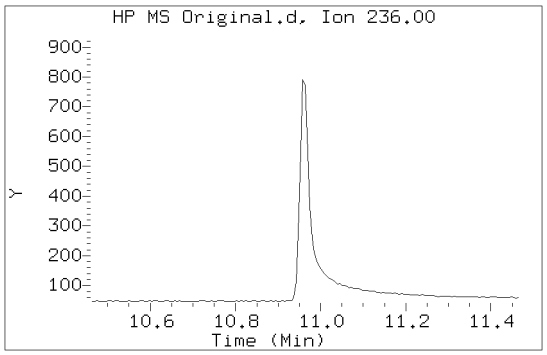
AFTER

MASS
120
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



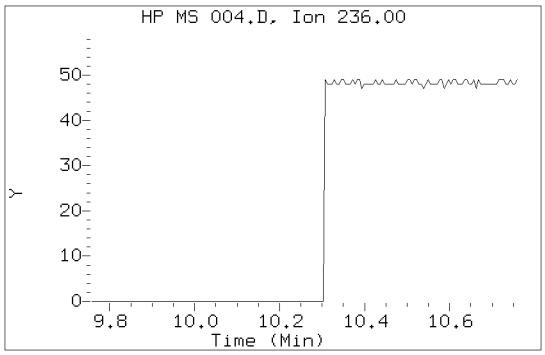
BEFORE

MASS
236
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
236
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



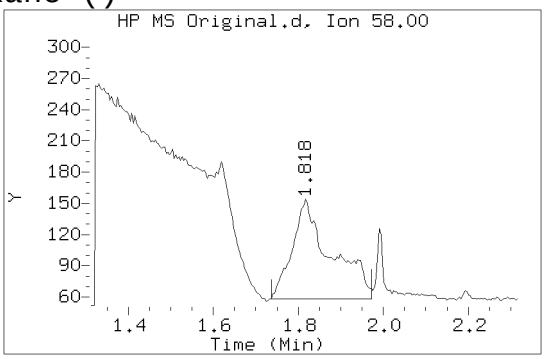
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\004.D
Inj Date : 10-MAR-2022 11:05
InstruID : SV6.i
LabSampID : 1 4 DX-0.03

1,4-Dioxane ()

Reason Code:

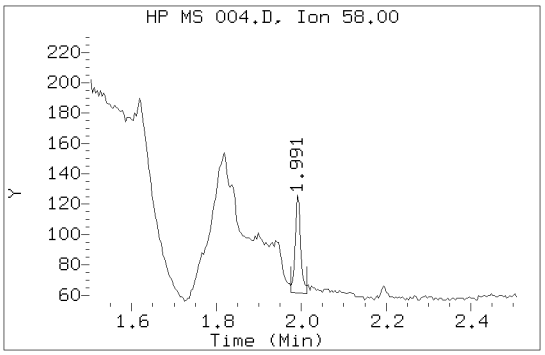
BEFORE

MASS
58
AREA
606
HEIGHT
96
25-Aug-2022
16:04
linh
pham



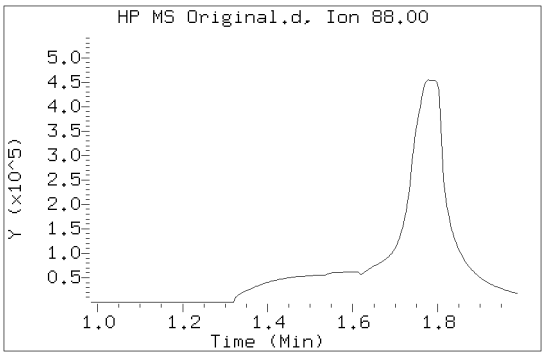
AFTER

MASS
58
AREA
57
HEIGHT
64
25-Aug-2022
16:08
linh
pham



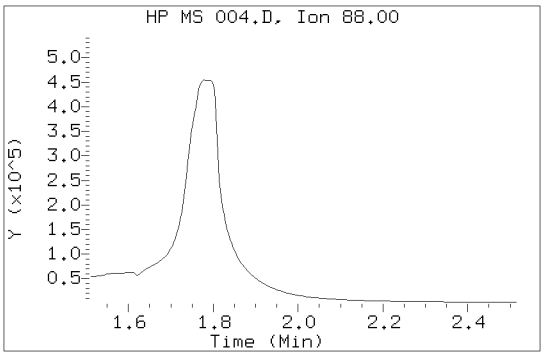
BEFORE

MASS
88
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
88
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham

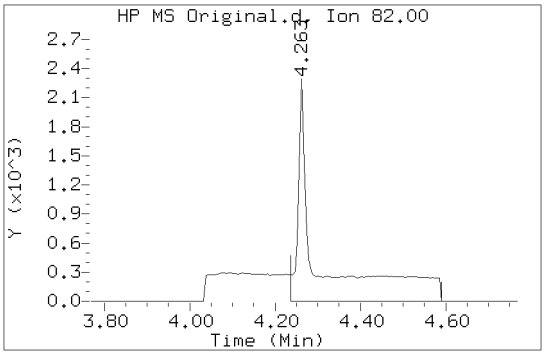


Nitrobenzene-d5 (4165-60-0)

Reason Code:

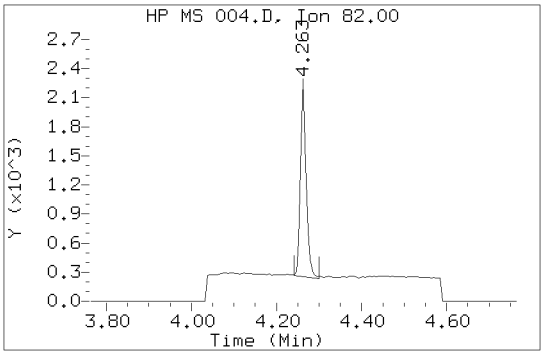
BEFORE

MASS
82
AREA
7178
HEIGHT
2293
25-Aug-2022
16:04
linh
pham



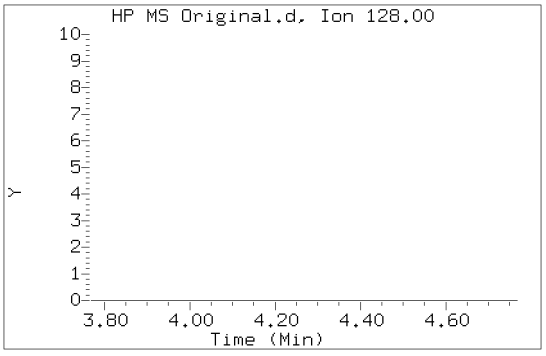
AFTER

MASS
82
AREA
1854
HEIGHT
2038
25-Aug-2022
16:08
linh
pham



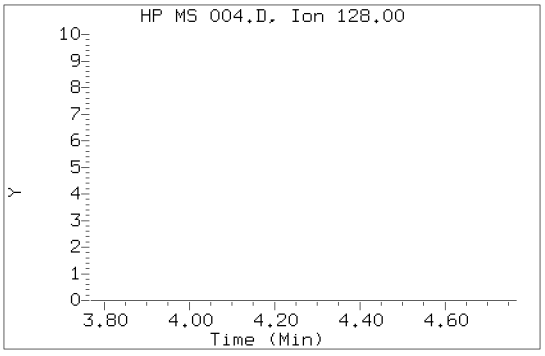
BEFORE

MASS
128
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
128
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



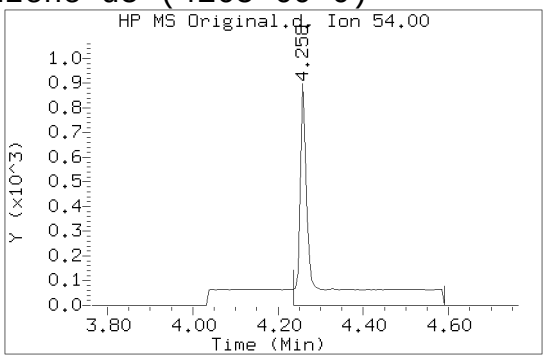
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\004.D
Inj Date : 10-MAR-2022 11:05
InstruID : SV6.i
LabSampID : 1 4 DX-0.03

Nitrobenzene-d5 (4165-60-0)

Reason Code:

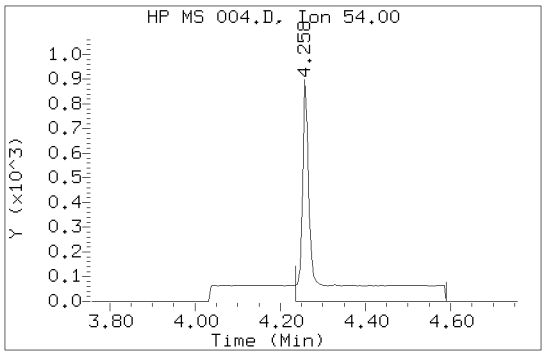
BEFORE

MASS
54
AREA
2147
HEIGHT
898
25-Aug-2022
16:04
linh
pham



AFTER

MASS
54
AREA
2147
HEIGHT
898
25-Aug-2022
16:08
linh
pham

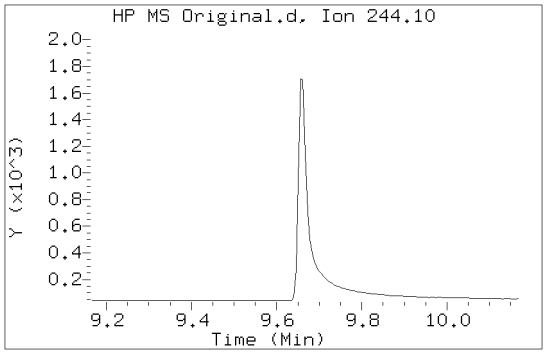


4-Terphenyl-d14 (1718-51-0)

Reason Code:

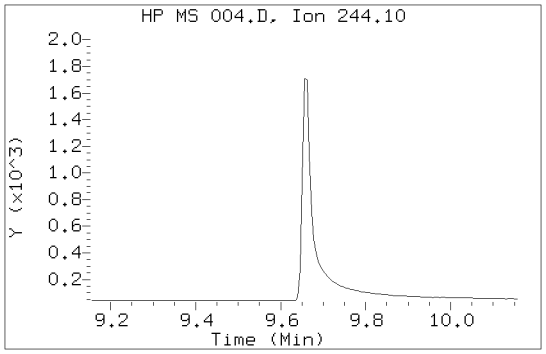
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



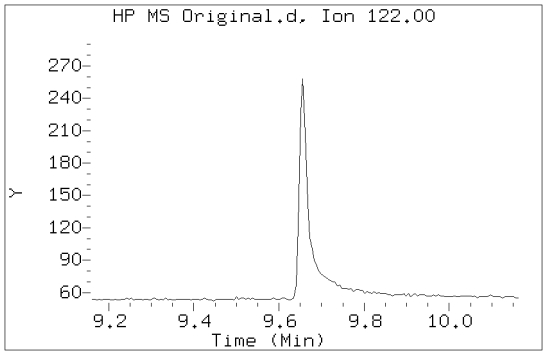
AFTER

MASS
244.1
AREA
4004
HEIGHT
1671
25-Aug-2022
16:08
linh
pham



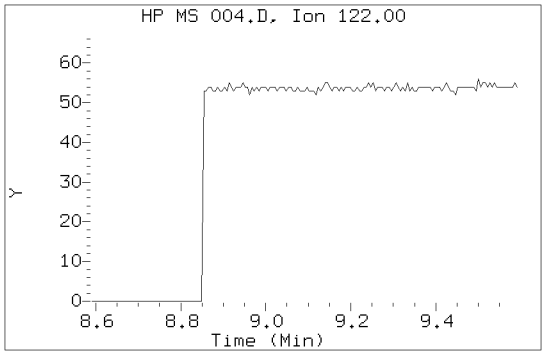
BEFORE

MASS
122
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



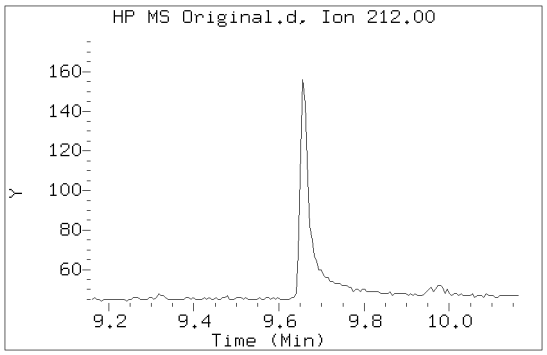
AFTER

MASS
122
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



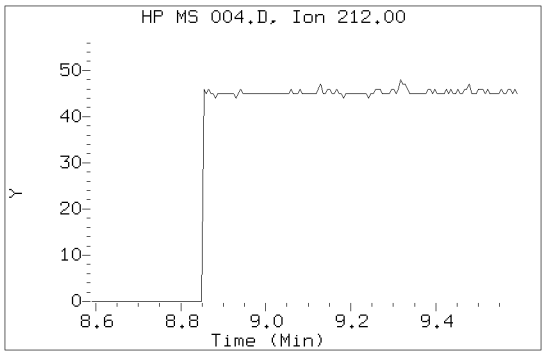
BEFORE

MASS
212
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
212
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\005.D Page 1
Report Date: 25-Aug-2022 16:08

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220310.b\005.D
Lab Smp Id: 1 4 DX-0.05 Client Smp ID: 1 4 DX-0.05
Inj Date : 10-MAR-2022 11:22 MS Autotune Date: 09-MAR-2022 11:12
Operator : LG Inst ID: SV6.i
Smp Info : 1 4 DX-0.05;1 4 DX-0.05
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220310.b\DXSIM.m
Meth Date : 25-Aug-2022 16:08 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 11:05 Cal File: 004.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.790	3.790	(1.000)	5274	0.10000	(aM)
* 45 Naphthalene-d8	136	4.918	4.918	(1.000)	20409	0.10000	
$ 33 Nitrobenzene-d5	82	4.262	4.262	(0.867)	3571	0.05000	0.05249(QM)
* 86 Acenaphthene-d10	164	6.603	6.603	(1.000)	9759	0.10000	
$ 69 2-Fluorobiphenyl	172	5.943	5.943	(0.900)	8686	0.05000	0.05718
* 126 Phenanthrene-d10	188	8.053	8.053	(1.000)	16554	0.10000	
* 182 Chrysene-d12	240	10.958	10.958	(1.000)	6789	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.656	9.656	(0.881)	6514	0.05000	0.05103(M)
* 198 Perylene-d12	264	13.085	13.085	(1.000)	4224	0.10000	
1 1,4-Dioxane	58	1.994	1.994	(0.526)	107	0.05000	0.04942(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.

01140108

Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\005.D

Date : 10-MAR-2022 11:22

Client ID: 1 4 DX-0.05

Instrument: SV6.i

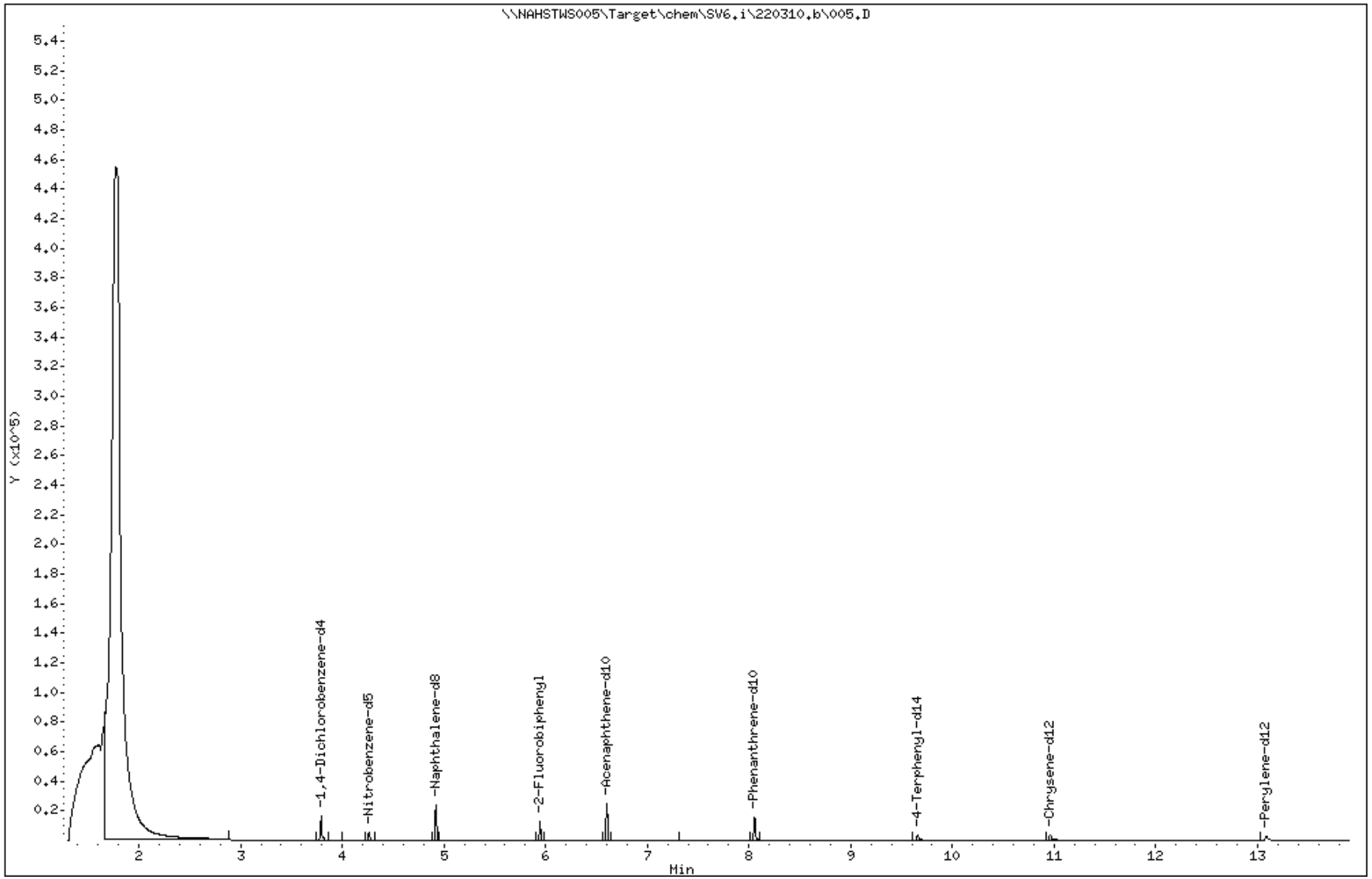
Sample Info: 1 4 DX-0.05;1 4 DX-0.05

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

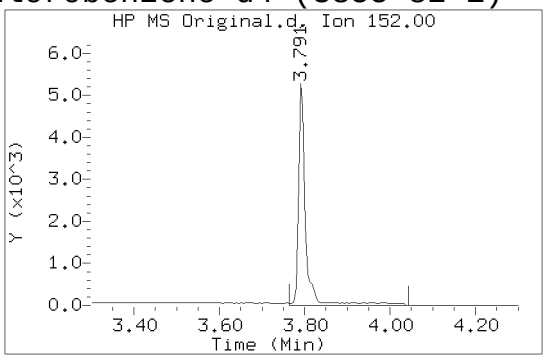


Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\005.D
Inj Date : 10-MAR-2022 11:22
InstruID : SV6.i
LabSampID : 1 4 DX-0.05

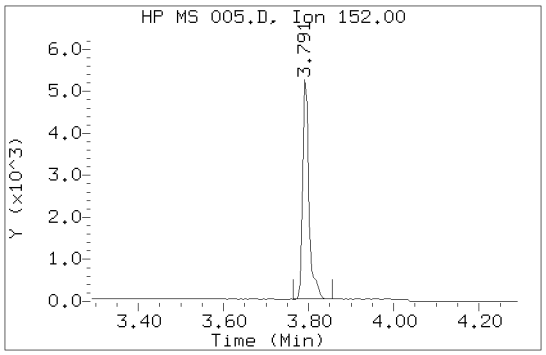
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

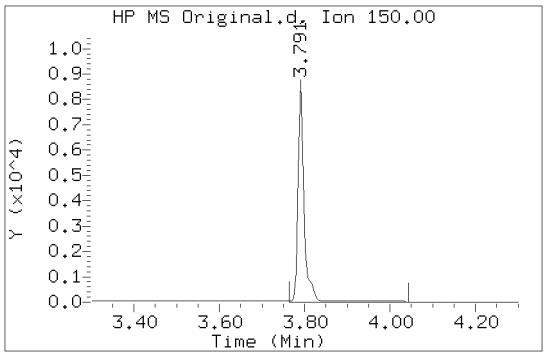
BEFORE
MASS
152
AREA
6163
HEIGHT
5277
25-Aug-2022
16:04
linh
pham



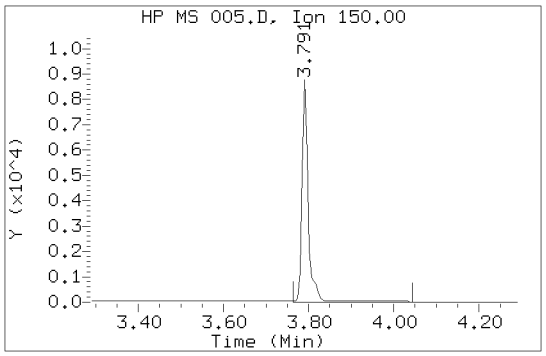
AFTER
MASS
152
AREA
5274
HEIGHT
5222
25-Aug-2022
16:08
linh
pham



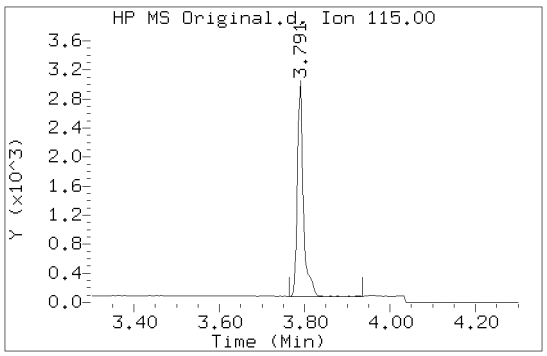
BEFORE
MASS
150
AREA
9110
HEIGHT
8769
25-Aug-2022
16:04
linh
pham



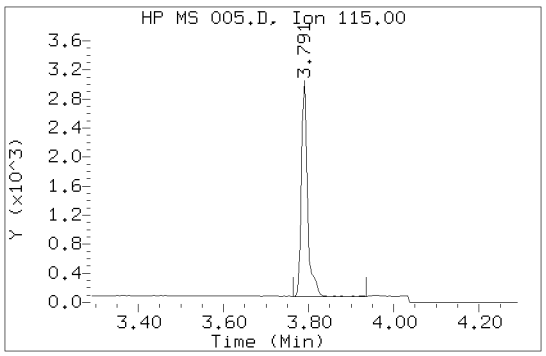
AFTER
MASS
150
AREA
9110
HEIGHT
8769
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
115
AREA
2922
HEIGHT
2969
25-Aug-2022
16:04
linh
pham



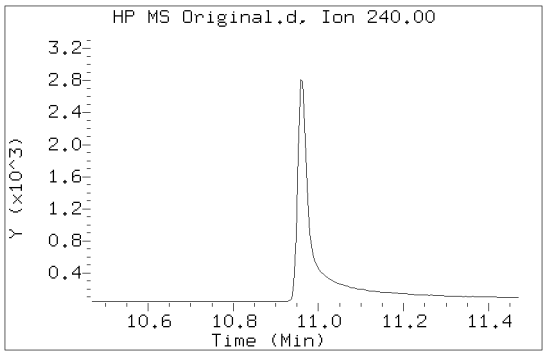
AFTER
MASS
115
AREA
2922
HEIGHT
2969
25-Aug-2022
16:08
linh
pham



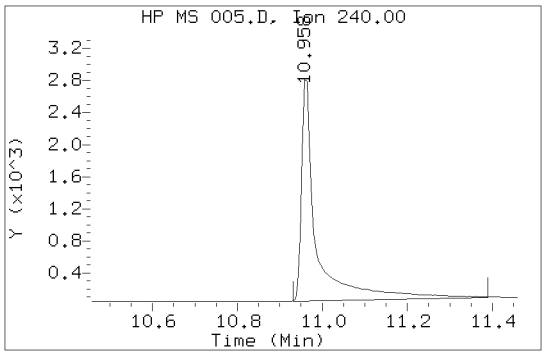
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER
MASS
240
AREA
6789
HEIGHT
2758
25-Aug-2022
16:08
linh
pham

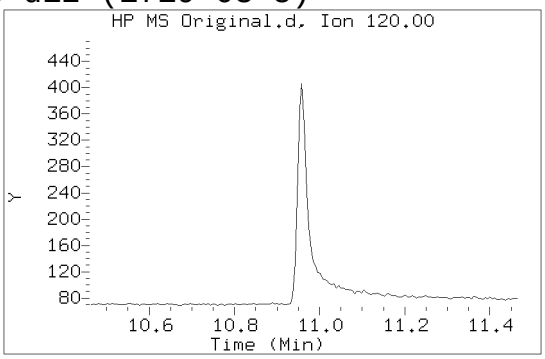


Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\005.D
Inj Date : 10-MAR-2022 11:22
InstruID : SV6.i
LabSampID : 1 4 DX-0.05

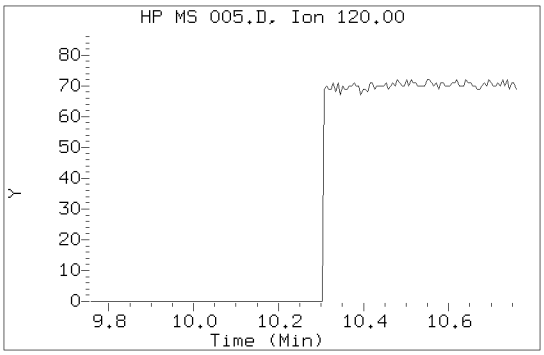
Chrysene-d12 (1719-03-5)

Reason Code:

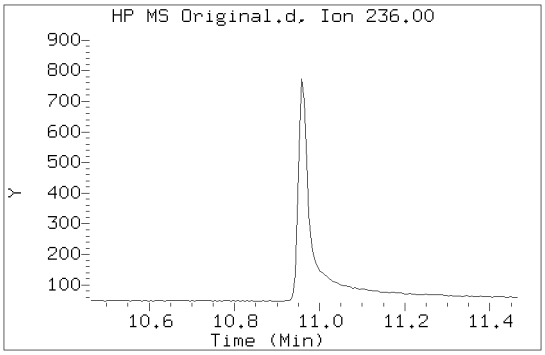
BEFORE
MASS
120
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



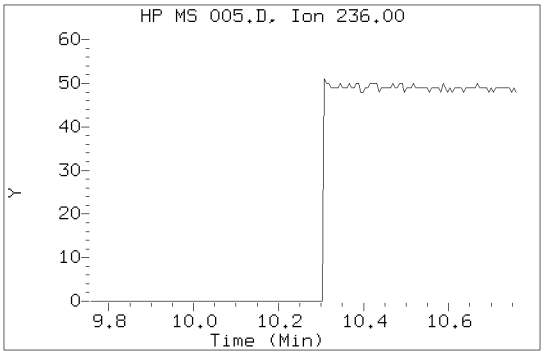
AFTER
MASS
120
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
236
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



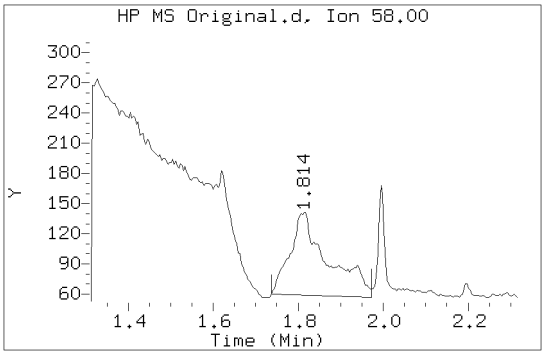
AFTER
MASS
236
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



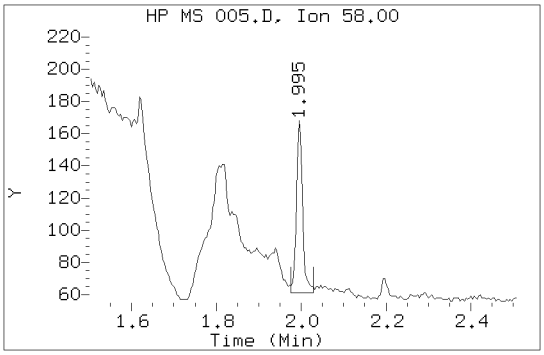
1,4-Dioxane ()

Reason Code:

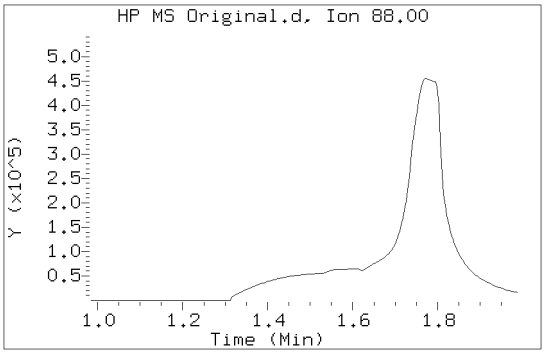
BEFORE
MASS
58
AREA
509
HEIGHT
81
25-Aug-2022
16:04
linh
pham



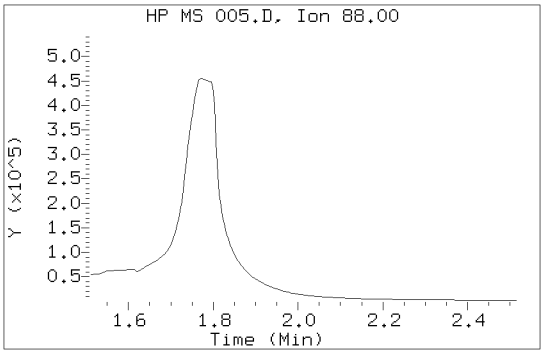
AFTER
MASS
58
AREA
107
HEIGHT
107
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
88
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER
MASS
88
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



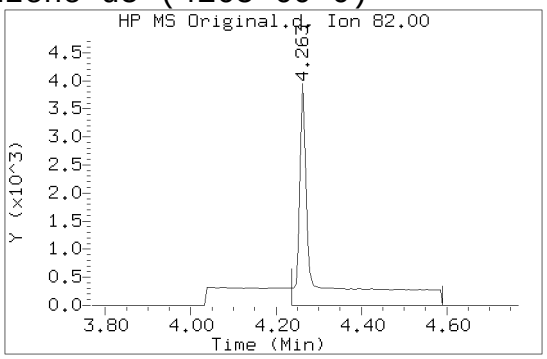
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\005.D
Inj Date : 10-MAR-2022 11:22
InstruID : SV6.i
LabSampID : 1 4 DX-0.05

Nitrobenzene-d5 (4165-60-0)

Reason Code:

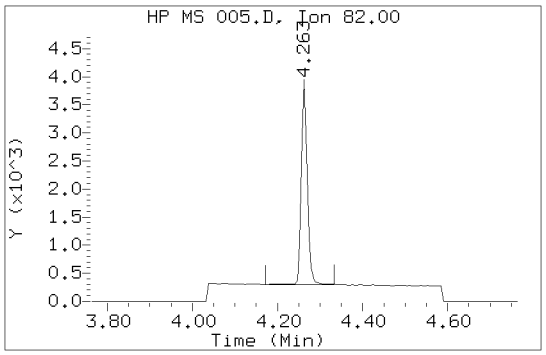
BEFORE

MASS
82
AREA
9627
HEIGHT
3947
25-Aug-2022
16:04
linh
pham



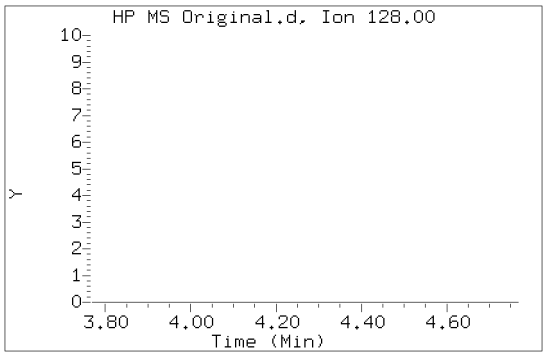
AFTER

MASS
82
AREA
3571
HEIGHT
3653
25-Aug-2022
16:08
linh
pham



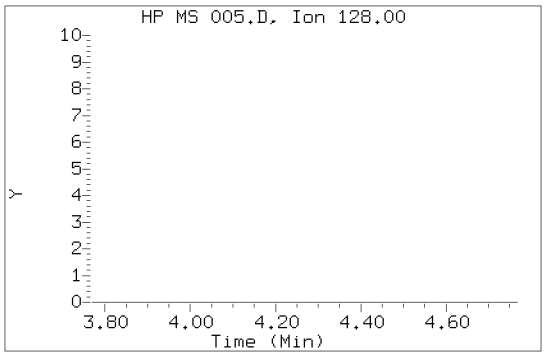
BEFORE

MASS
128
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



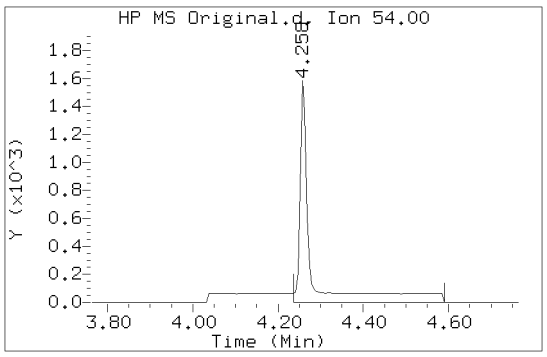
AFTER

MASS
128
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



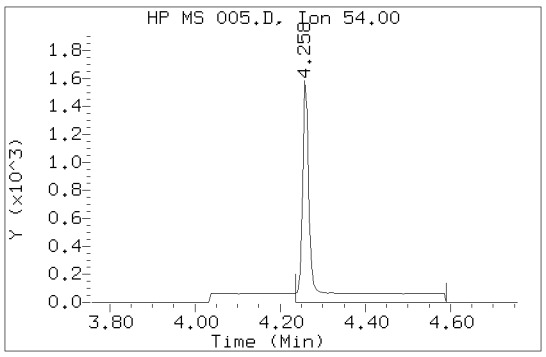
BEFORE

MASS
54
AREA
2838
HEIGHT
1584
25-Aug-2022
16:04
linh
pham



AFTER

MASS
54
AREA
2838
HEIGHT
1584
25-Aug-2022
16:08
linh
pham

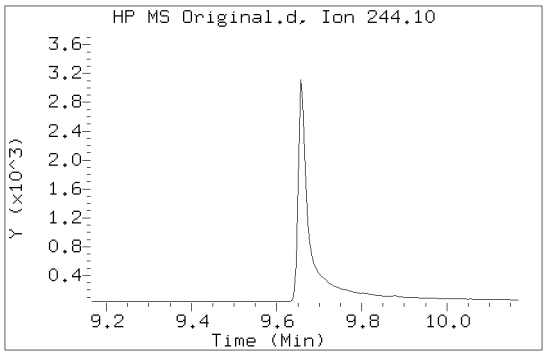


4-Terphenyl-d14 (1718-51-0)

Reason Code:

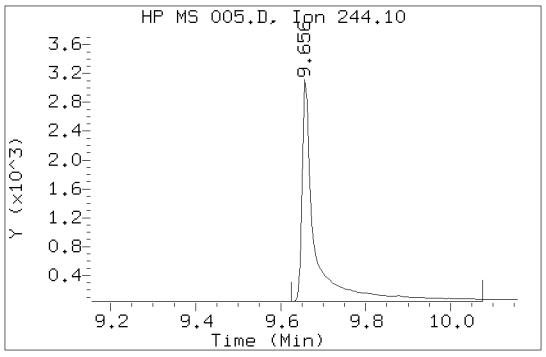
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
244.1
AREA
6514
HEIGHT
3070
25-Aug-2022
16:08
linh
pham

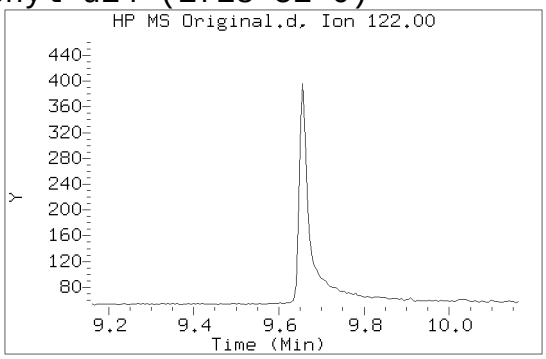


Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\005.D
Inj Date : 10-MAR-2022 11:22
InstruID : SV6.i
LabSampID : 1 4 DX-0.05

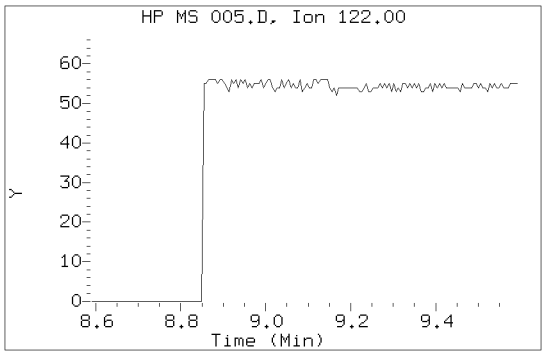
4-Terphenyl-d14 (1718-51-0)

Reason Code:

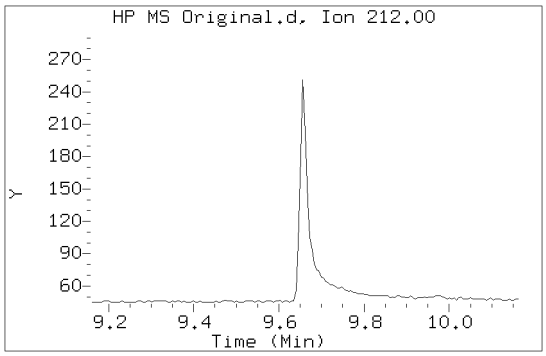
BEFORE
MASS
122
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



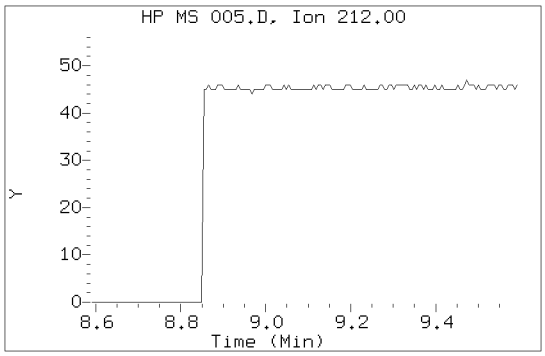
AFTER
MASS
122
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
212
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER
MASS
212
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220310.b\006.D
Lab Smp Id: 1 4 DX-0.1 Client Smp ID: 1 4 DX-0.1
Inj Date : 10-MAR-2022 11:40 MS Autotune Date: 09-MAR-2022 11:12
Operator : LG Inst ID: SV6.i
Smp Info : 1 4 DX-0.1;1 4 DX-0.1
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220310.b\DXSIM.m
Meth Date : 25-Aug-2022 16:08 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 11:22 Cal File: 005.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.790	3.790	(1.000)	6146	0.10000	(aM)
* 45 Naphthalene-d8	136	4.918	4.918	(1.000)	20583	0.10000	
$ 33 Nitrobenzene-d5	82	4.262	4.262	(0.867)	6972	0.10000	0.1016(M)
* 86 Acenaphthene-d10	164	6.603	6.603	(1.000)	11296	0.10000	
$ 69 2-Fluorobiphenyl	172	5.943	5.943	(0.900)	16916	0.10000	0.09621
* 126 Phenanthrene-d10	188	8.058	8.058	(1.000)	19503	0.10000	
* 182 Chrysene-d12	240	10.963	10.963	(1.000)	7205	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.661	9.661	(0.881)	13702	0.10000	0.1012(M)
* 198 Perylene-d12	264	13.090	13.090	(1.000)	4516	0.10000	
1 1,4-Dioxane	58	1.994	1.994	(0.526)	273	0.10000	0.1082(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01140114

Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\006.D

Date : 10-MAR-2022 11:40

Client ID: 1 4 DX-0.1

Instrument: SV6.i

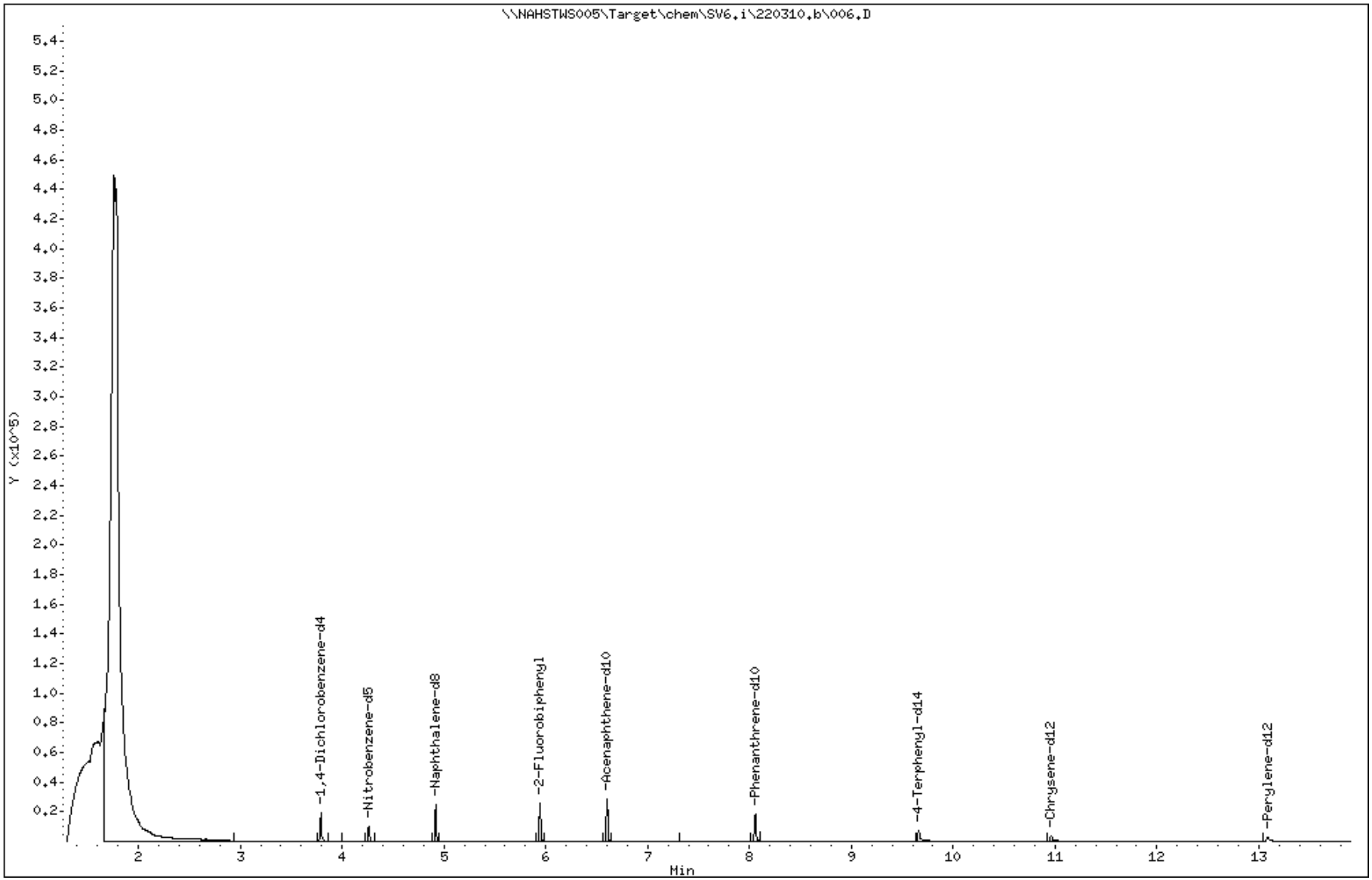
Sample Info: 1 4 DX-0.1;1 4 DX-0.1

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

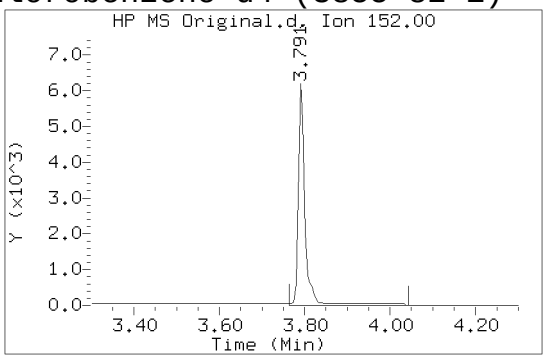


Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\006.D
Inj Date : 10-MAR-2022 11:40
InstruID : SV6.i
LabSampID : 1 4 DX-0.1

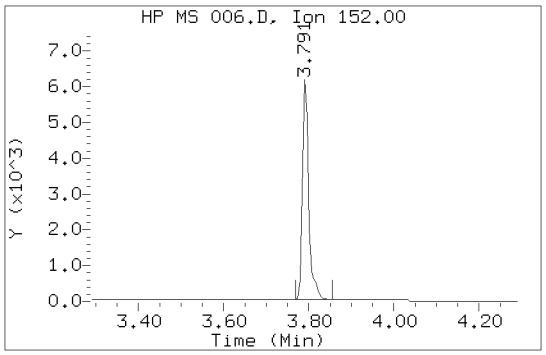
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

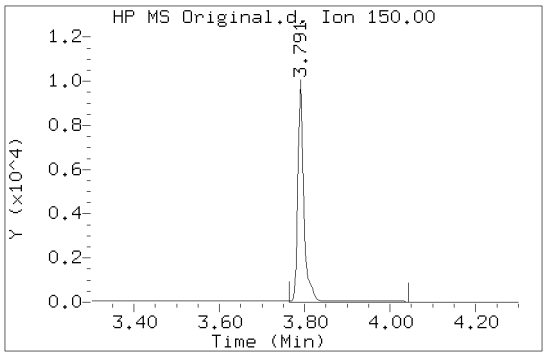
BEFORE
MASS
152
AREA
7014
HEIGHT
6198
25-Aug-2022
16:04
linh
pham



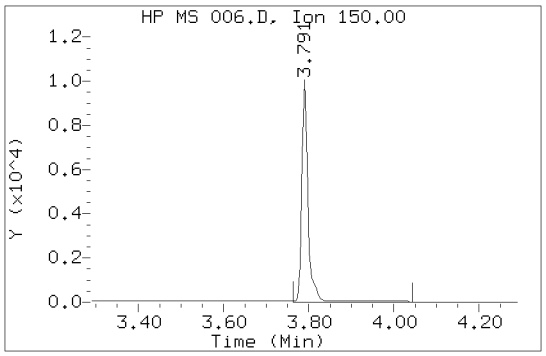
AFTER
MASS
152
AREA
6146
HEIGHT
6147
25-Aug-2022
16:08
linh
pham



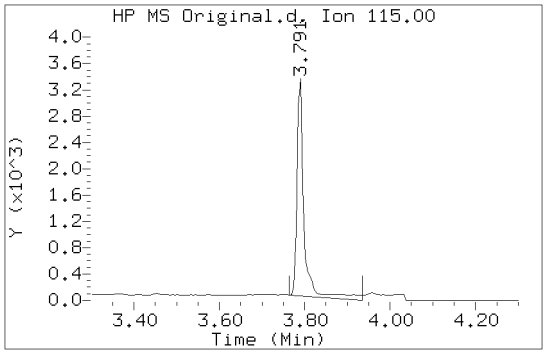
BEFORE
MASS
150
AREA
10435
HEIGHT
10058
25-Aug-2022
16:04
linh
pham



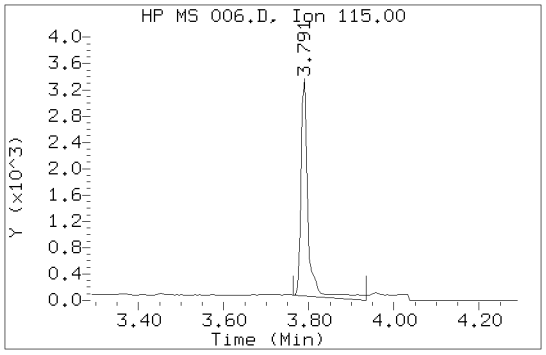
AFTER
MASS
150
AREA
10435
HEIGHT
10058
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
115
AREA
3810
HEIGHT
3300
25-Aug-2022
16:04
linh
pham



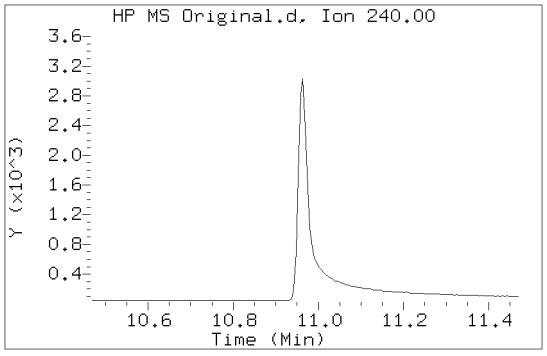
AFTER
MASS
115
AREA
3810
HEIGHT
3300
25-Aug-2022
16:08
linh
pham



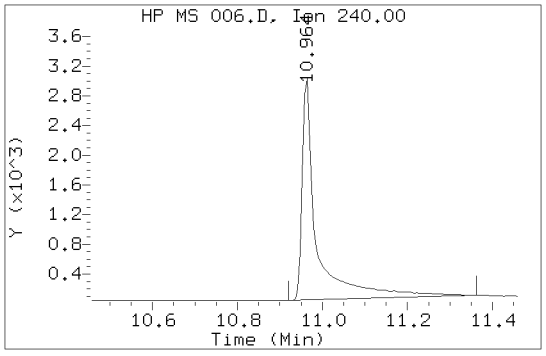
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER
MASS
240
AREA
7205
HEIGHT
2978
25-Aug-2022
16:08
linh
pham

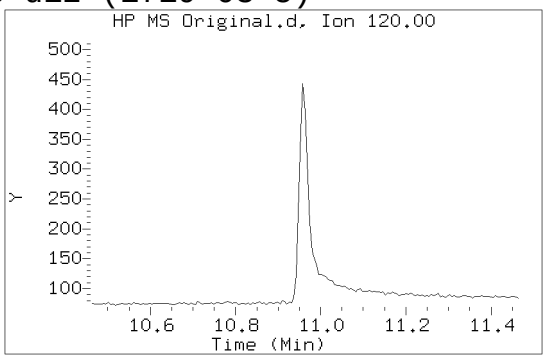


Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\006.D
Inj Date : 10-MAR-2022 11:40
InstruID : SV6.i
LabSampID : 1 4 DX-0.1

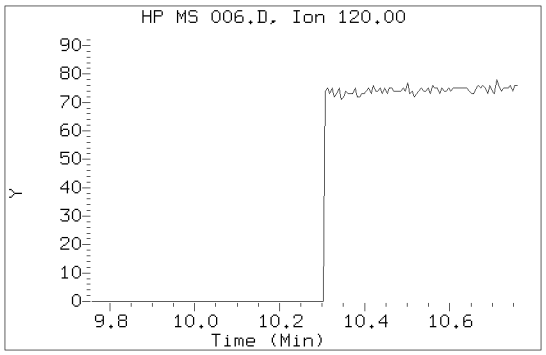
Chrysene-d12 (1719-03-5)

Reason Code:

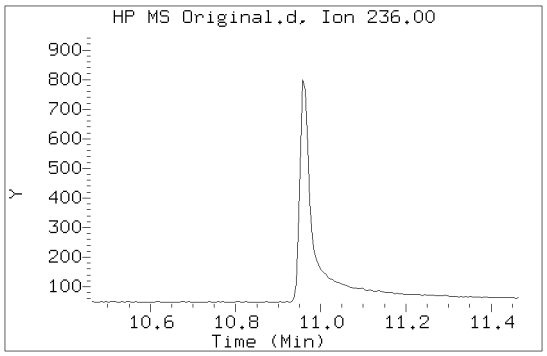
BEFORE
MASS
120
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



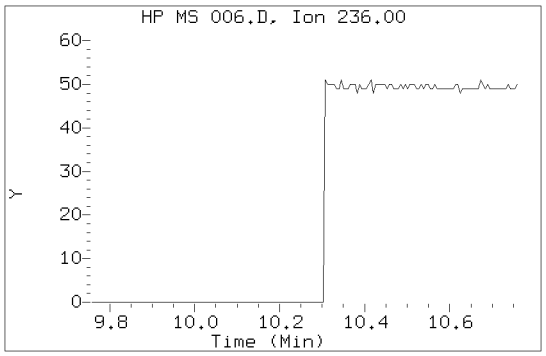
AFTER
MASS
120
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
236
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



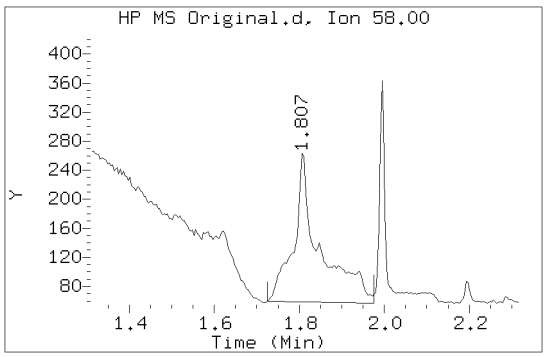
AFTER
MASS
236
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



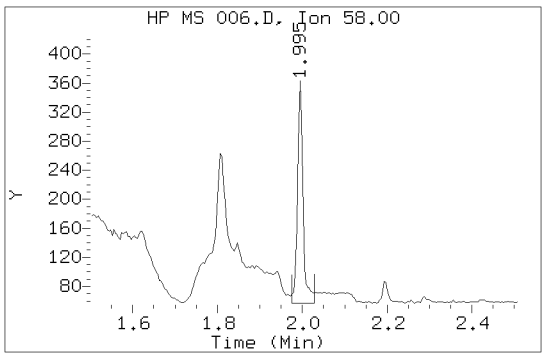
1,4-Dioxane ()

Reason Code:

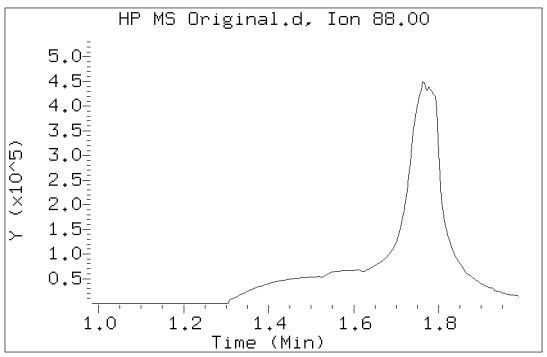
BEFORE
MASS
58
AREA
864
HEIGHT
203
25-Aug-2022
16:04
linh
pham



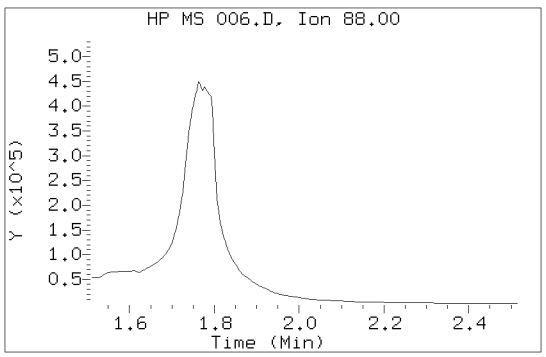
AFTER
MASS
58
AREA
273
HEIGHT
306
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
88
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER
MASS
88
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



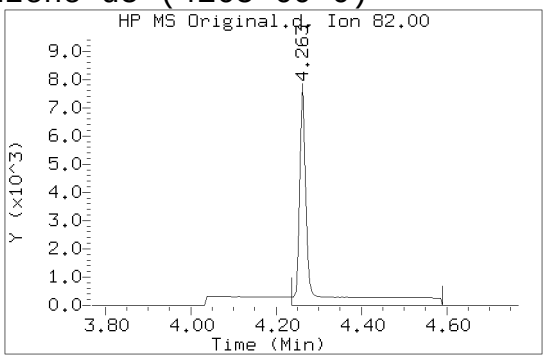
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\006.D
Inj Date : 10-MAR-2022 11:40
InstruID : SV6.i
LabSampID : 1 4 DX-0.1

Nitrobenzene-d5 (4165-60-0)

Reason Code:

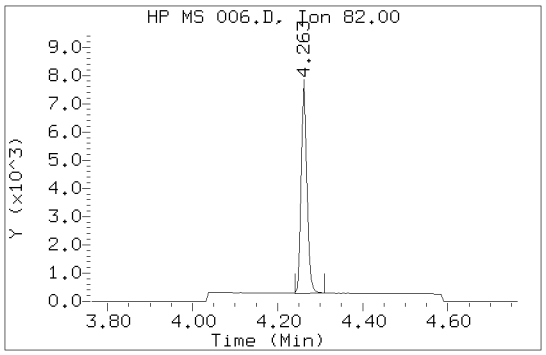
BEFORE

MASS
82
AREA
12838
HEIGHT
7851
25-Aug-2022
16:04
linh
pham



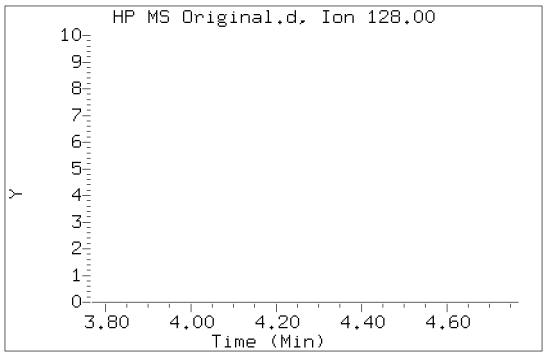
AFTER

MASS
82
AREA
6972
HEIGHT
7565
25-Aug-2022
16:08
linh
pham



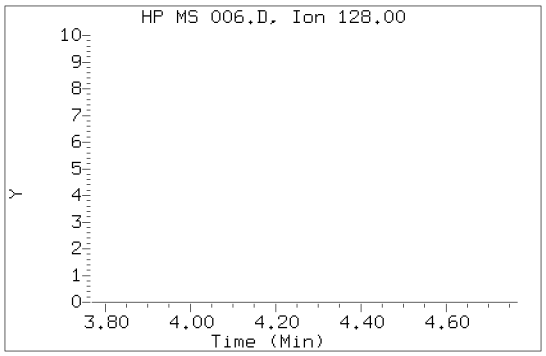
BEFORE

MASS
128
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



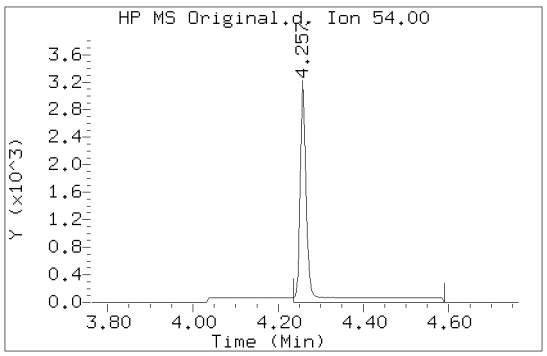
AFTER

MASS
128
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



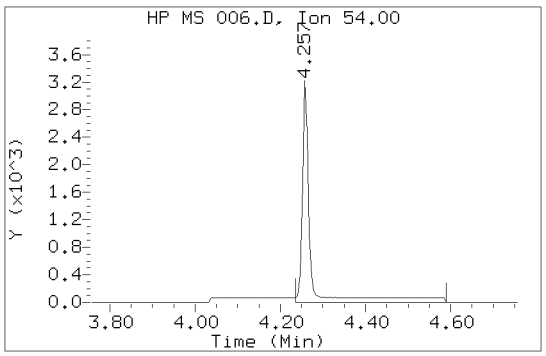
BEFORE

MASS
54
AREA
4279
HEIGHT
3222
25-Aug-2022
16:04
linh
pham



AFTER

MASS
54
AREA
4279
HEIGHT
3222
25-Aug-2022
16:08
linh
pham

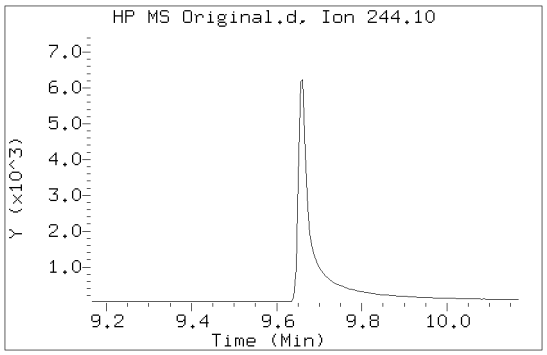


4-Terphenyl-d14 (1718-51-0)

Reason Code:

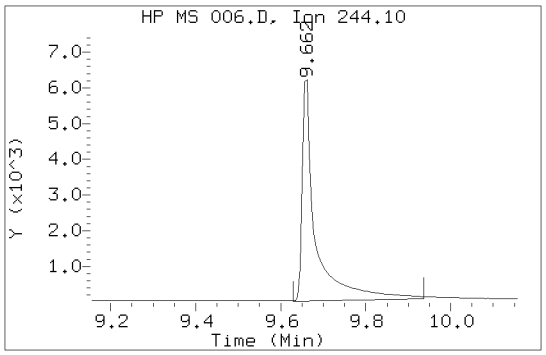
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
244.1
AREA
13702
HEIGHT
6196
25-Aug-2022
16:08
linh
pham

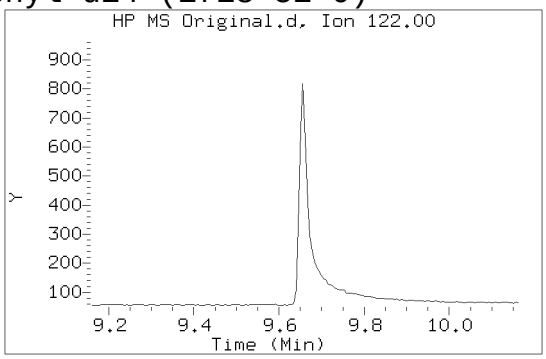


Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\006.D
Inj Date : 10-MAR-2022 11:40
InstruID : SV6.i
LabSampID : 1 4 DX-0.1

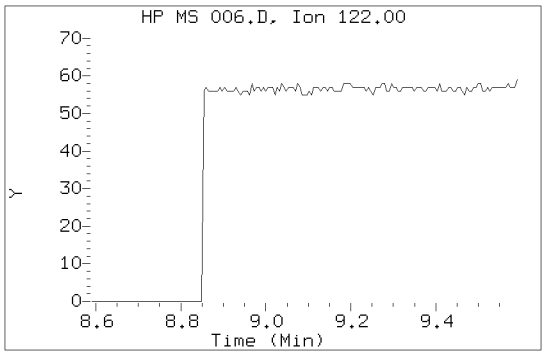
4-Terphenyl-d14 (1718-51-0)

Reason Code:

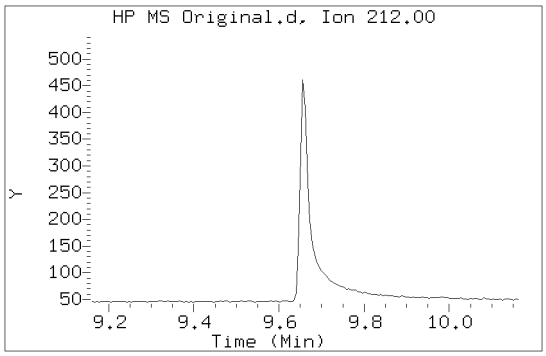
BEFORE
MASS
122
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



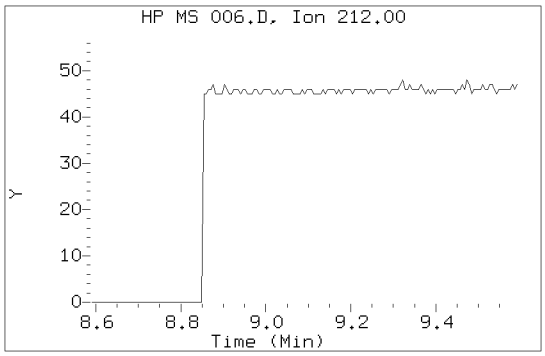
AFTER
MASS
122
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
212
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER
MASS
212
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\007.D Page 1
Report Date: 25-Aug-2022 16:08

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220310.b\007.D
Lab Smp Id: 1 4 DX-0.15 Client Smp ID: 1 4 DX-0.15
Inj Date : 10-MAR-2022 11:58 MS Autotune Date: 09-MAR-2022 11:12
Operator : LG Inst ID: SV6.i
Smp Info : 1 4 DX-0.15;1 4 DX-0.15
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220310.b\DXSIM.m
Meth Date : 25-Aug-2022 16:08 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 11:40 Cal File: 006.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.790	3.790	(1.000)	3795	0.10000	(aM)
* 45 Naphthalene-d8	136	4.918	4.918	(1.000)	14247	0.10000	(M)
$ 33 Nitrobenzene-d5	82	4.262	4.262	(0.867)	6488	0.15000	0.1366(M)
* 86 Acenaphthene-d10	164	6.603	6.603	(1.000)	7392	0.10000	
$ 69 2-Fluorobiphenyl	172	5.943	5.943	(0.900)	16942	0.15000	0.1472
* 126 Phenanthrene-d10	188	8.058	8.058	(1.000)	12440	0.10000	
* 182 Chrysene-d12	240	10.963	10.963	(1.000)	4575	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.661	9.661	(0.881)	13069	0.15000	0.1519(AM)
* 198 Perylene-d12	264	13.090	13.090	(1.000)	2595	0.10000	
1 1,4-Dioxane	58	1.979	1.979	(0.522)	238	0.15000	0.1528(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.
M - Compound response manually integrated.

01140120

Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\007.D

Date : 10-MAR-2022 11:58

Client ID: 1 4 DX-0.15

Instrument: SV6.i

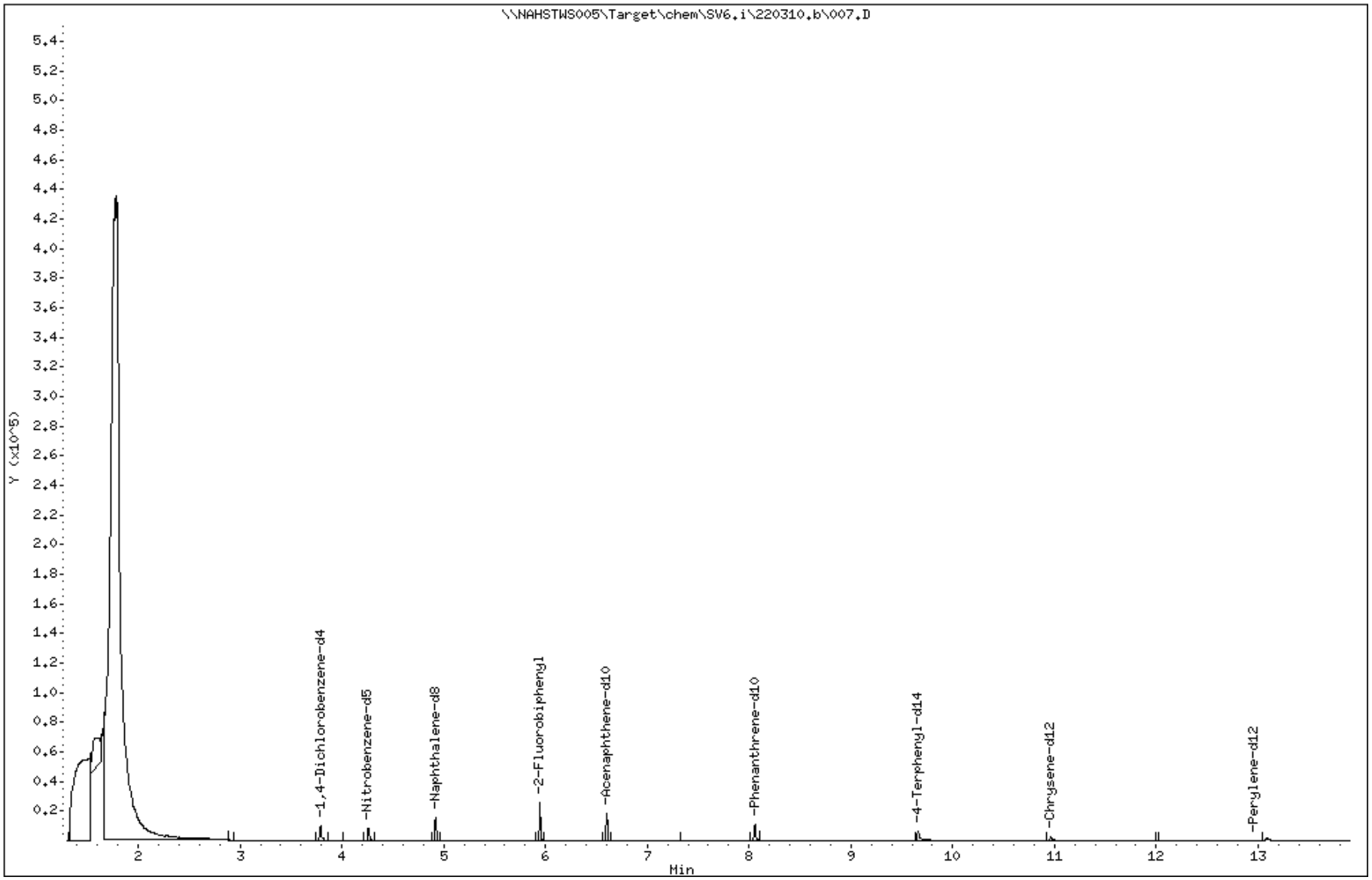
Sample Info: 1 4 DX-0.15;1 4 DX-0.15

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



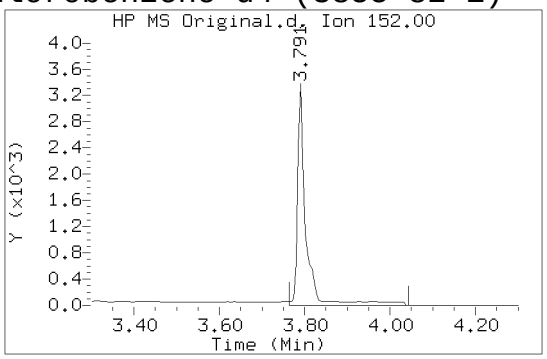
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\007.D
Inj Date : 10-MAR-2022 11:58
InstruID : SV6.i
LabSampID : 1 4 DX-0.15

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

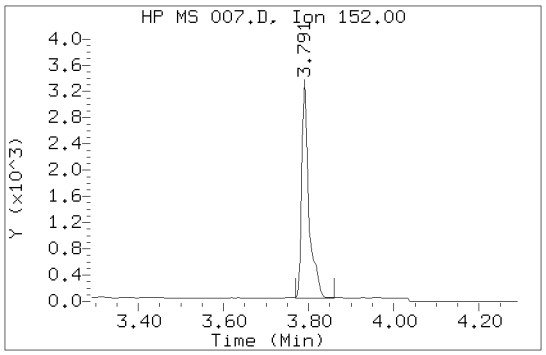
BEFORE

MASS
152
AREA
4665
HEIGHT
3379
25-Aug-2022
16:04
linh
pham



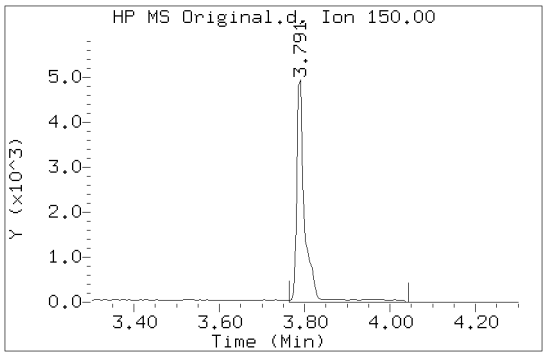
AFTER

MASS
152
AREA
3795
HEIGHT
3326
25-Aug-2022
16:08
linh
pham



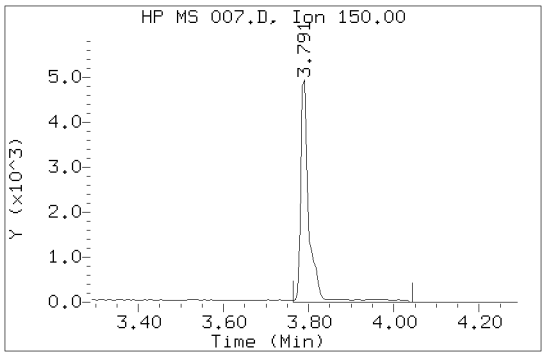
BEFORE

MASS
150
AREA
6833
HEIGHT
4945
25-Aug-2022
16:04
linh
pham



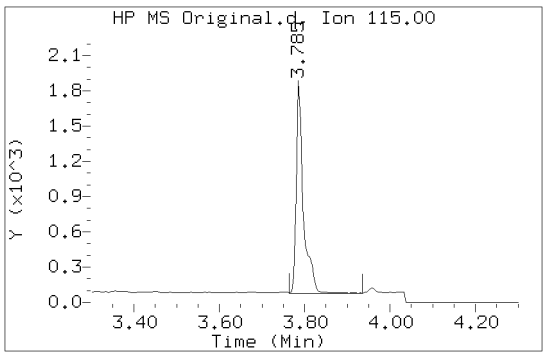
AFTER

MASS
150
AREA
6833
HEIGHT
4945
25-Aug-2022
16:08
linh
pham



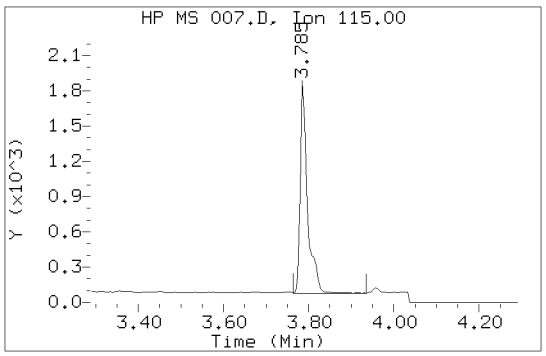
BEFORE

MASS
115
AREA
2089
HEIGHT
1807
25-Aug-2022
16:04
linh
pham



AFTER

MASS
115
AREA
2089
HEIGHT
1807
25-Aug-2022
16:08
linh
pham

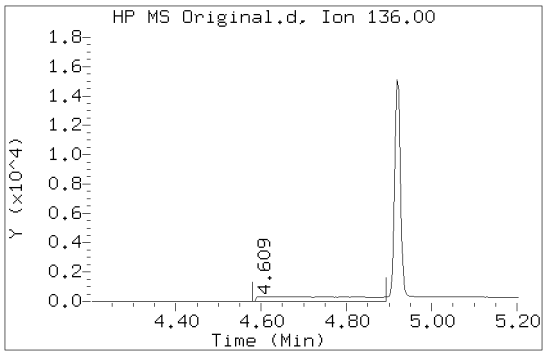


Naphthalene-d8 (1146-65-2)

Reason Code:

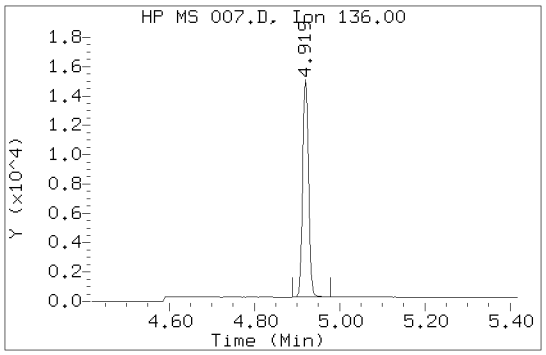
BEFORE

MASS
136
AREA
5460
HEIGHT
316
25-Aug-2022
16:04
linh
pham



AFTER

MASS
136
AREA
14247
HEIGHT
14814
25-Aug-2022
16:08
linh
pham



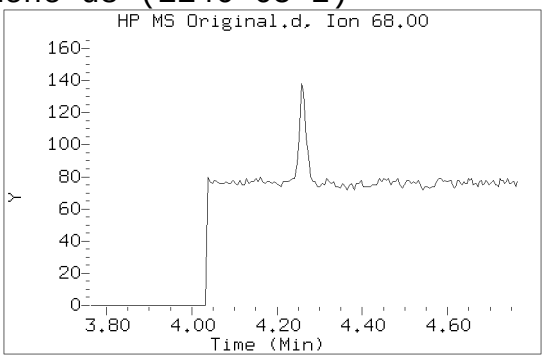
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\007.D
Inj Date : 10-MAR-2022 11:58
InstruID : SV6.i
LabSampID : 1 4 DX-0.15

Naphthalene-d8 (1146-65-2)

Reason Code:

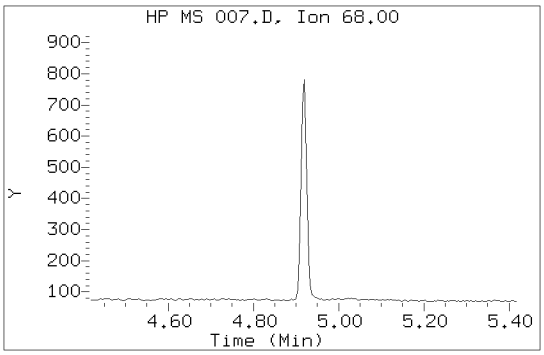
BEFORE

MASS
68
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
68
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham

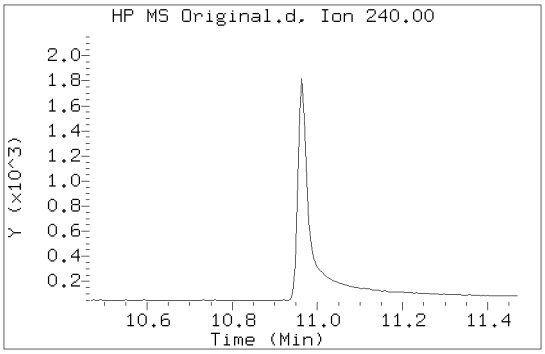


Chrysene-d12 (1719-03-5)

Reason Code:

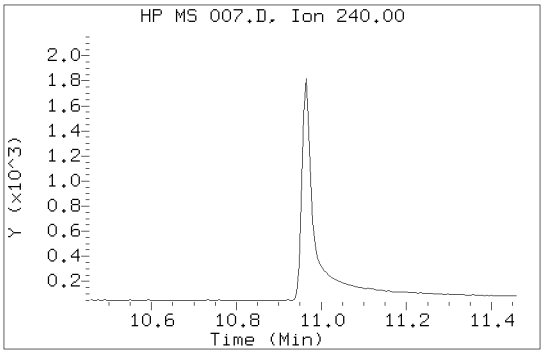
BEFORE

MASS
240
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



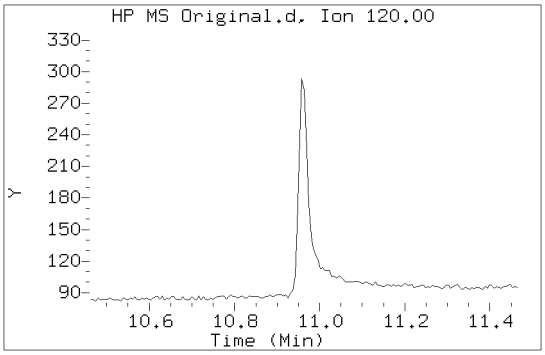
AFTER

MASS
240
AREA
4575
HEIGHT
1766
25-Aug-2022
16:08
linh
pham



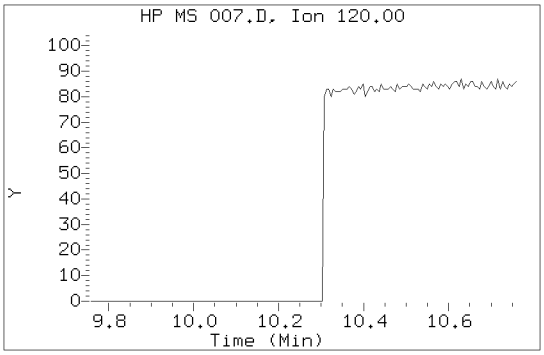
BEFORE

MASS
120
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



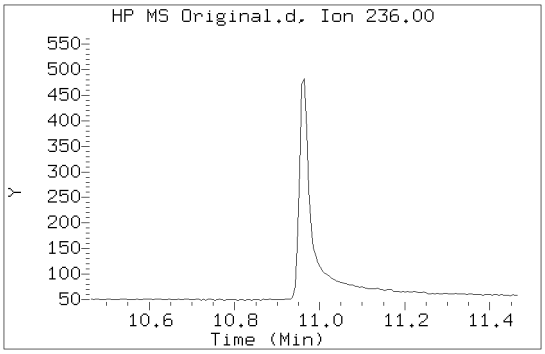
AFTER

MASS
120
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



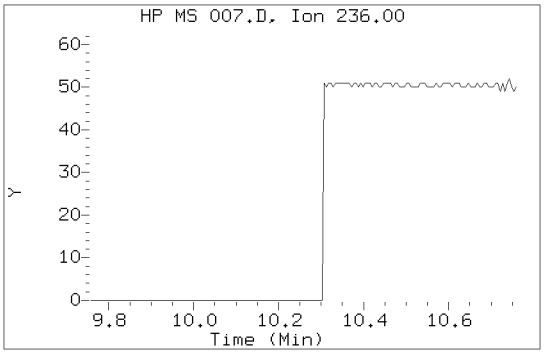
BEFORE

MASS
236
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
236
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



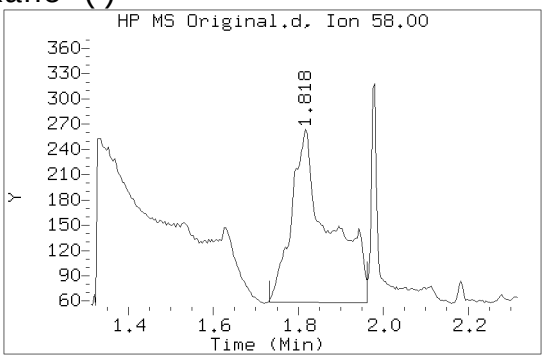
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\007.D
Inj Date : 10-MAR-2022 11:58
InstruID : SV6.i
LabSampID : 1 4 DX-0.15

1,4-Dioxane ()

Reason Code:

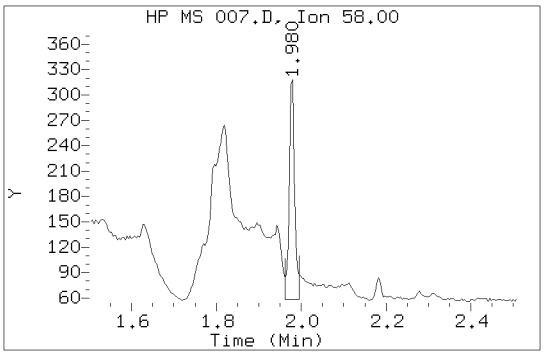
BEFORE

MASS
58
AREA
1252
HEIGHT
205
25-Aug-2022
16:04
linh
pham



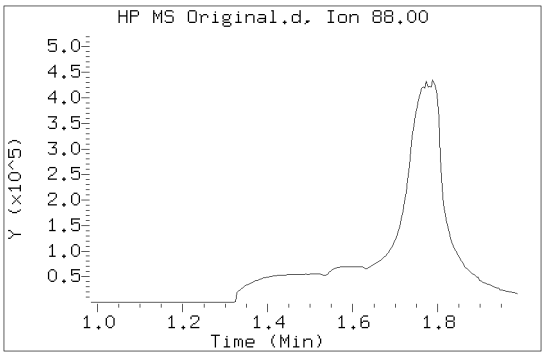
AFTER

MASS
58
AREA
238
HEIGHT
260
25-Aug-2022
16:08
linh
pham



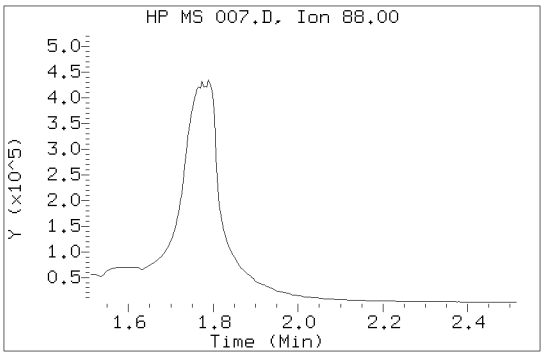
BEFORE

MASS
88
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
88
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham

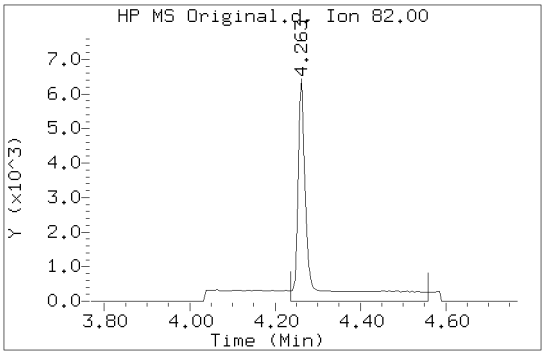


Nitrobenzene-d5 (4165-60-0)

Reason Code:

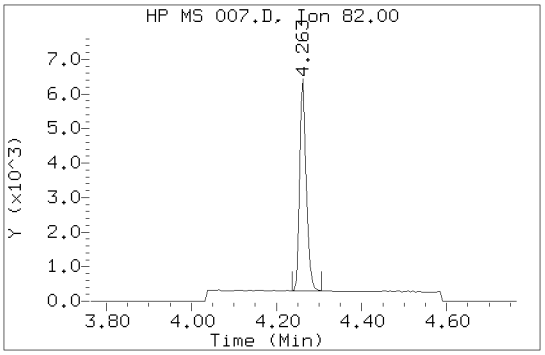
BEFORE

MASS
82
AREA
12102
HEIGHT
6437
25-Aug-2022
16:04
linh
pham



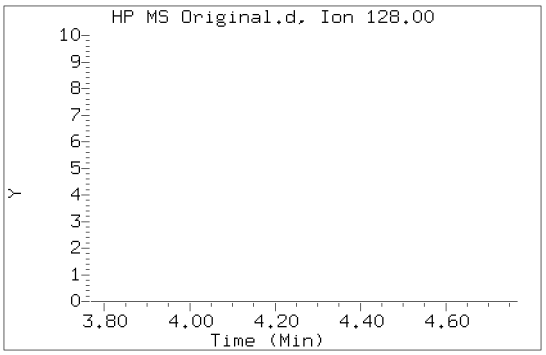
AFTER

MASS
82
AREA
6488
HEIGHT
6131
25-Aug-2022
16:08
linh
pham



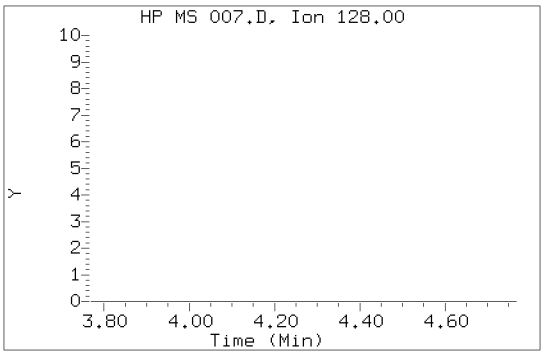
BEFORE

MASS
128
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
128
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham

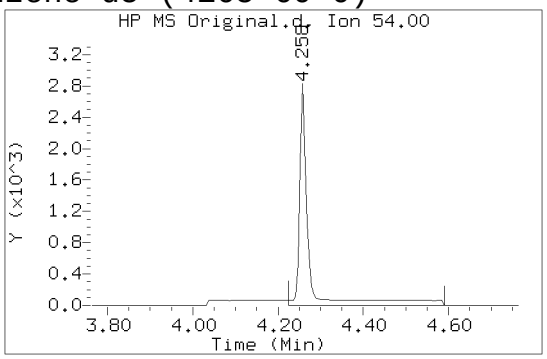


Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\007.D
Inj Date : 10-MAR-2022 11:58
InstruID : SV6.i
LabSampID : 1 4 DX-0.15

Nitrobenzene-d5 (4165-60-0)

BEFORE

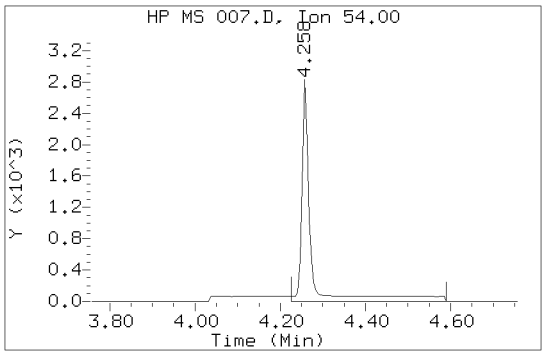
MASS
54
AREA
4221
HEIGHT
2829
25-Aug-2022
16:04
linh
pham



Reason Code:

AFTER

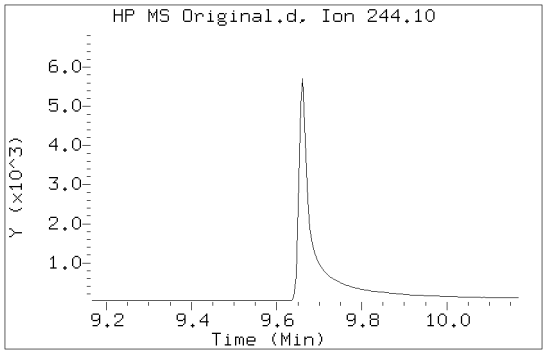
MASS
54
AREA
4221
HEIGHT
2829
25-Aug-2022
16:08
linh
pham



4-Terphenyl-d14 (1718-51-0)

BEFORE

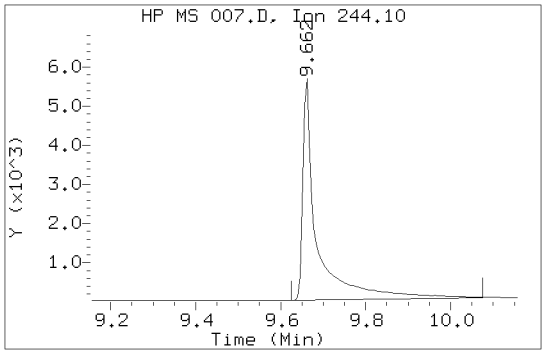
MASS
244.1
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



Reason Code:

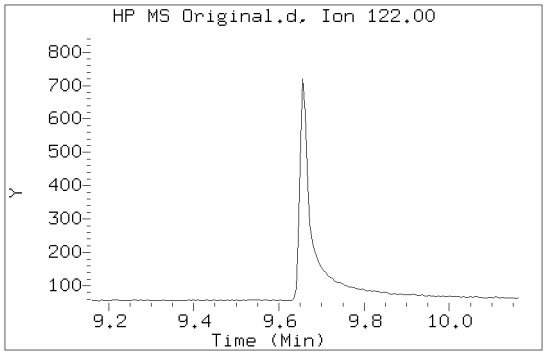
AFTER

MASS
244.1
AREA
13069
HEIGHT
5661
25-Aug-2022
16:08
linh
pham



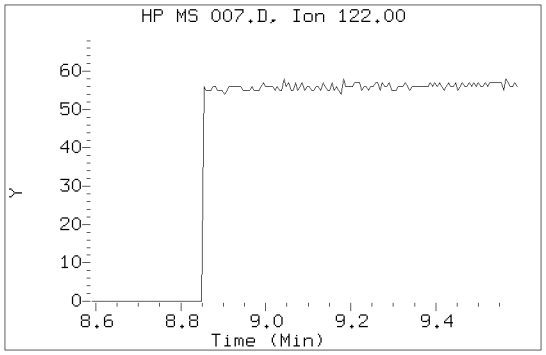
BEFORE

MASS
122
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



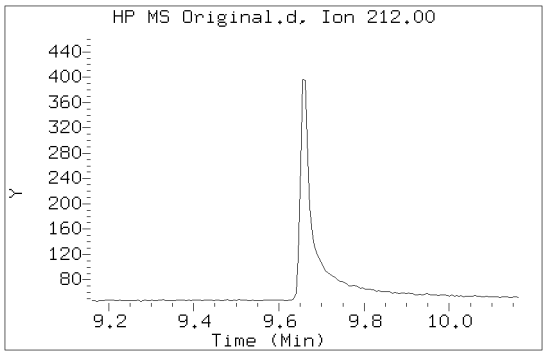
AFTER

MASS
122
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



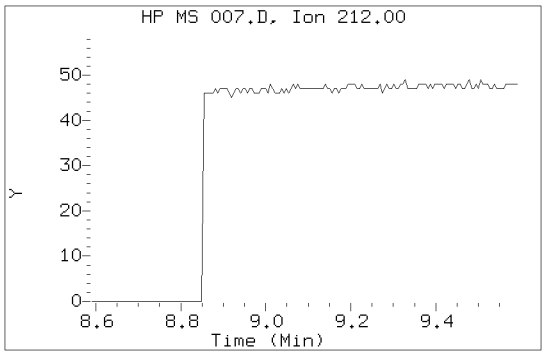
BEFORE

MASS
212
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
212
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\008.D Page 1
Report Date: 25-Aug-2022 16:08

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220310.b\008.D
Lab Smp Id: 1 4 DX-0.2 Client Smp ID: 1 4 DX-0.2
Inj Date : 10-MAR-2022 12:16 MS Autotune Date: 09-MAR-2022 11:12
Operator : LG Inst ID: SV6.i
Smp Info : 1 4 DX-0.2;1 4 DX-0.2
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220310.b\DXSIM.m
Meth Date : 25-Aug-2022 16:08 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 11:58 Cal File: 007.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.796	3.796	(1.000)	7263	0.10000	(aM)
* 45 Naphthalene-d8	136	4.918	4.918	(1.000)	25657	0.10000	
$ 33 Nitrobenzene-d5	82	4.262	4.262	(0.867)	17003	0.20000	0.1988(AM)
* 86 Acenaphthene-d10	164	6.603	6.603	(1.000)	14251	0.10000	
$ 69 2-Fluorobiphenyl	172	5.943	5.943	(0.900)	43148	0.20000	0.1945(A)
* 126 Phenanthrene-d10	188	8.059	8.059	(1.000)	24746	0.10000	
* 182 Chrysene-d12	240	10.963	10.963	(1.000)	9545	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.661	9.661	(0.881)	36799	0.20000	0.2050(AM)
* 198 Perylene-d12	264	13.090	13.090	(1.000)	5135	0.10000	
1 1,4-Dioxane	58	2.013	2.013	(0.530)	614	0.20000	0.2059(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.
M - Compound response manually integrated.

01140126

Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\008.D

Date : 10-MAR-2022 12:16

Client ID: 1 4 DX-0.2

Instrument: SV6.i

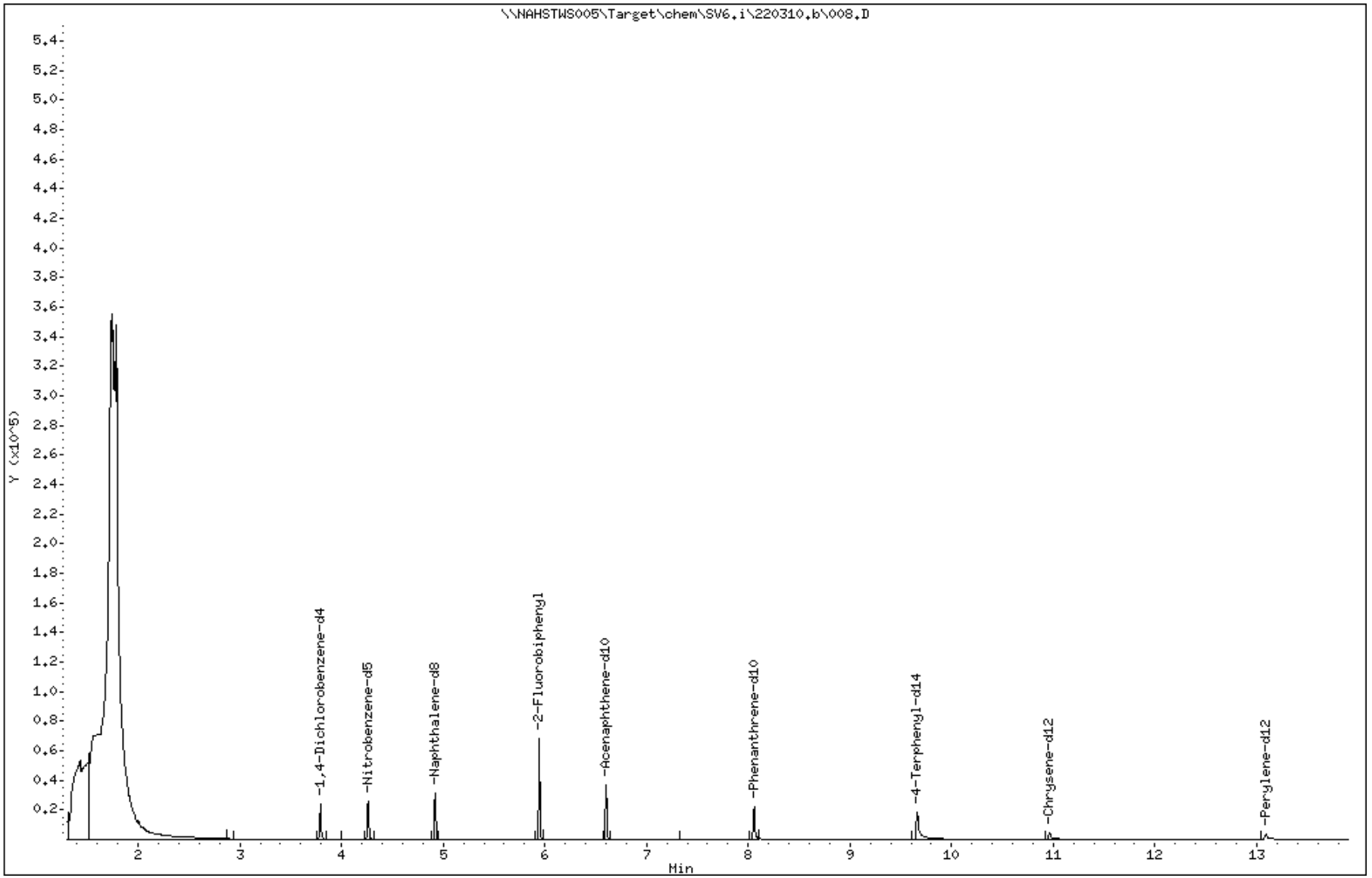
Sample Info: 1 4 DX-0.2;1 4 DX-0.2

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

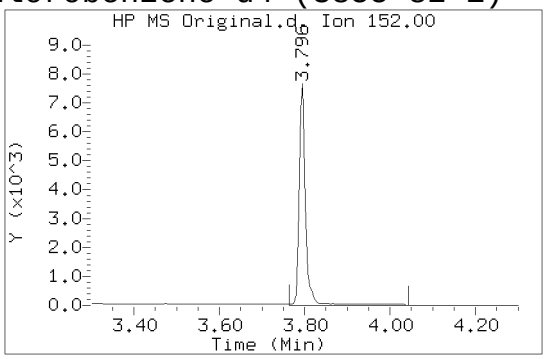


Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\008.D
Inj Date : 10-MAR-2022 12:16
InstruID : SV6.i
LabSampID : 1 4 DX-0.2

1,4-Dichlorobenzene-d4 (3855-82-1)

BEFORE

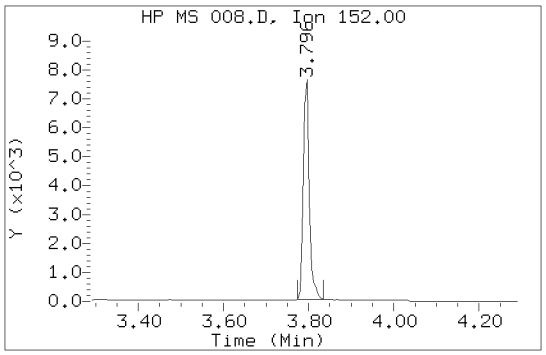
MASS
152
AREA
8188
HEIGHT
7663
25-Aug-2022
16:04
linh
pham



AFTER

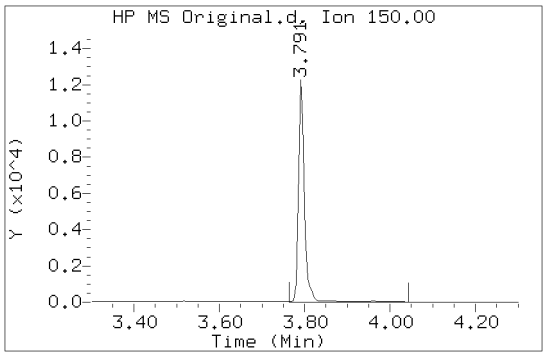
MASS
152
AREA
7263
HEIGHT
7596
25-Aug-2022
16:08
linh
pham

Reason Code:



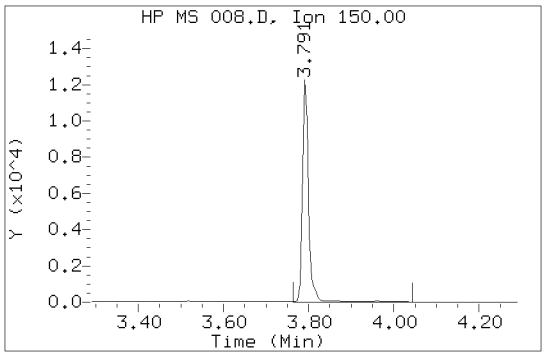
BEFORE

MASS
150
AREA
12278
HEIGHT
12265
25-Aug-2022
16:04
linh
pham



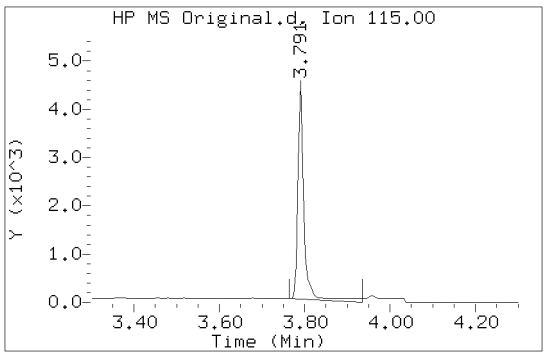
AFTER

MASS
150
AREA
12278
HEIGHT
12265
25-Aug-2022
16:08
linh
pham



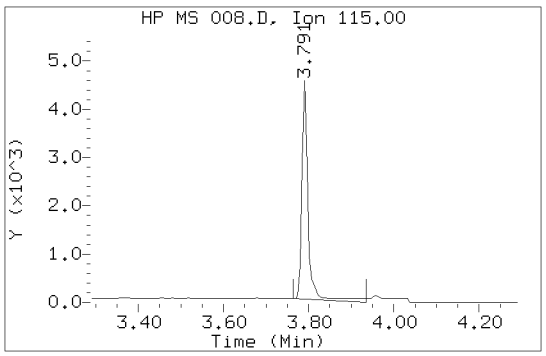
BEFORE

MASS
115
AREA
4513
HEIGHT
4526
25-Aug-2022
16:04
linh
pham



AFTER

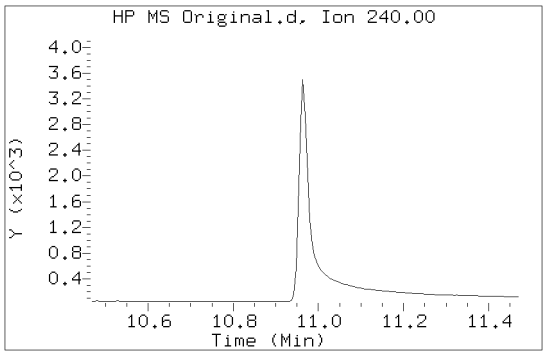
MASS
115
AREA
4513
HEIGHT
4526
25-Aug-2022
16:08
linh
pham



Chrysene-d12 (1719-03-5)

BEFORE

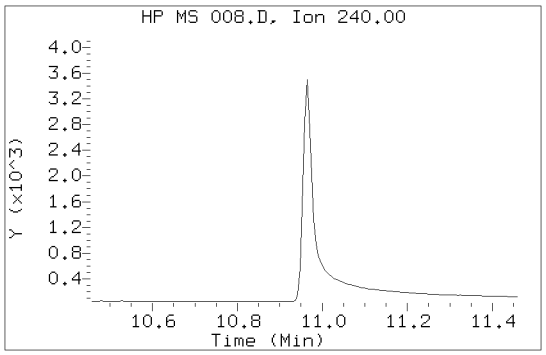
MASS
240
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
240
AREA
9545
HEIGHT
3446
25-Aug-2022
16:08
linh
pham

Reason Code:

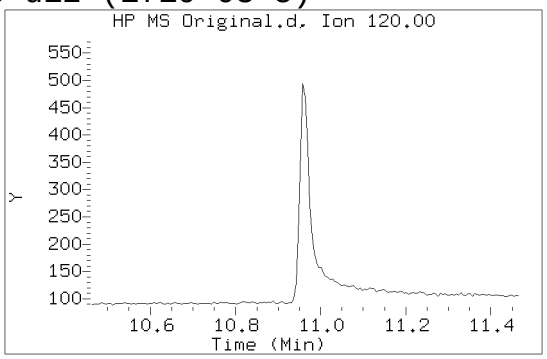


Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\008.D
Inj Date : 10-MAR-2022 12:16
InstruID : SV6.i
LabSampID : 1 4 DX-0.2

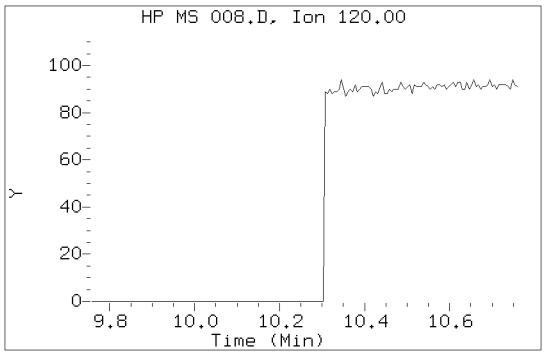
Chrysene-d12 (1719-03-5)

Reason Code:

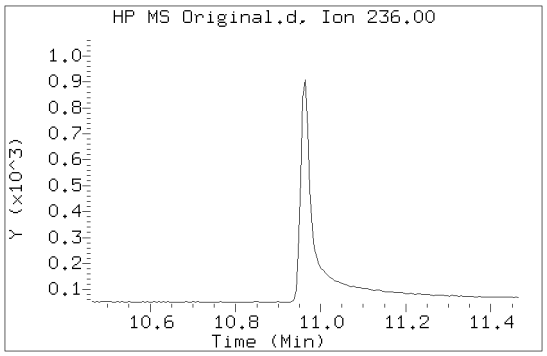
BEFORE
MASS
120
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



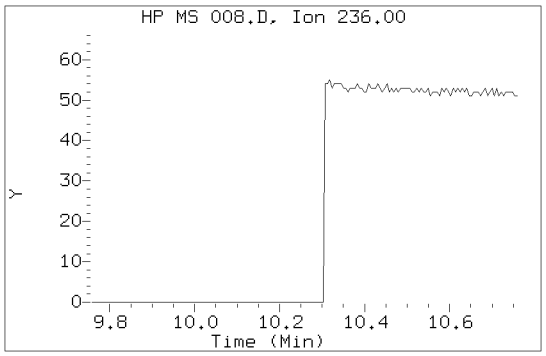
AFTER
MASS
120
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
236
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



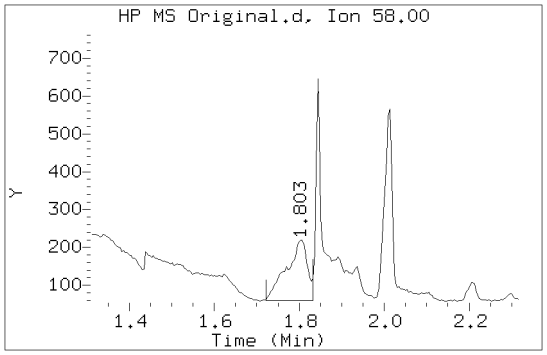
AFTER
MASS
236
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



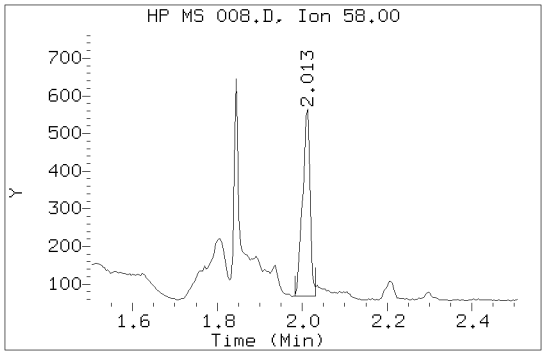
1,4-Dioxane ()

Reason Code:

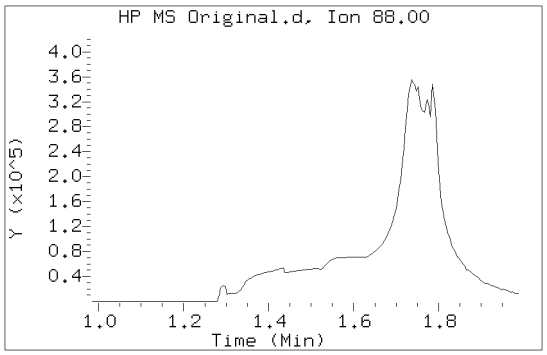
BEFORE
MASS
58
AREA
554
HEIGHT
160
25-Aug-2022
16:04
linh
pham



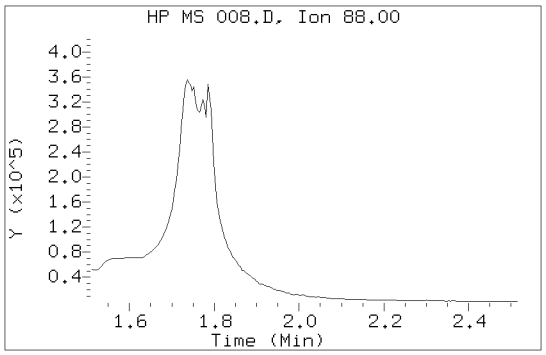
AFTER
MASS
58
AREA
614
HEIGHT
496
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
88
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER
MASS
88
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



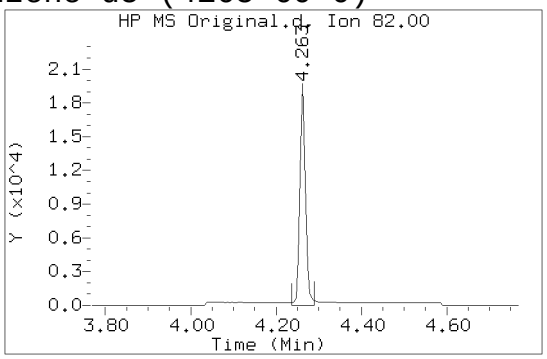
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\008.D
Inj Date : 10-MAR-2022 12:16
InstruID : SV6.i
LabSampID : 1 4 DX-0.2

Nitrobenzene-d5 (4165-60-0)

Reason Code:

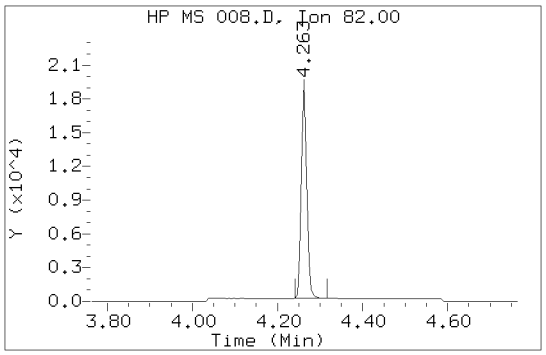
BEFORE

MASS
82
AREA
17887
HEIGHT
19712
25-Aug-2022
16:04
linh
pham



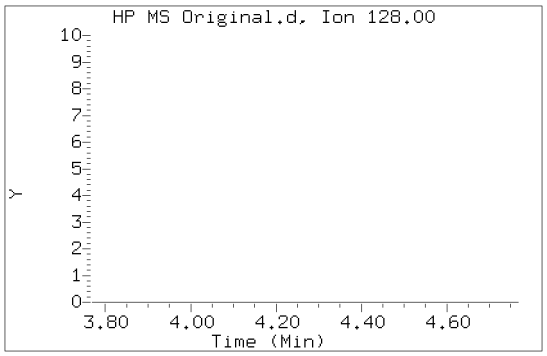
AFTER

MASS
82
AREA
17003
HEIGHT
19451
25-Aug-2022
16:08
linh
pham



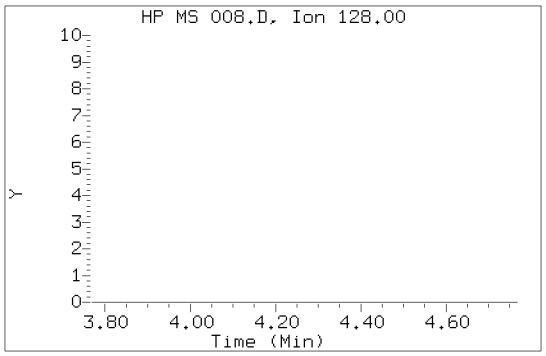
BEFORE

MASS
128
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



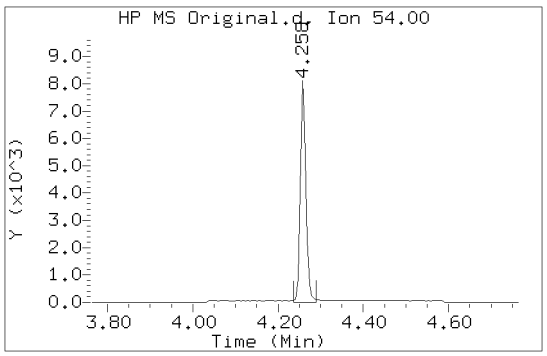
AFTER

MASS
128
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



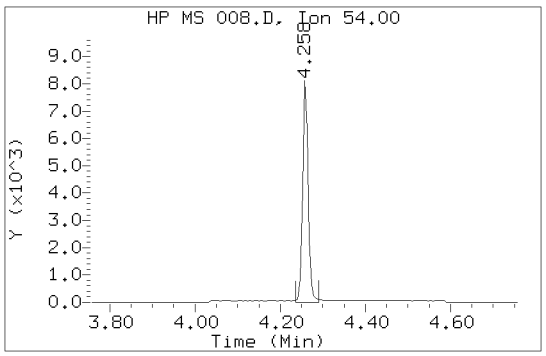
BEFORE

MASS
54
AREA
7400
HEIGHT
8110
25-Aug-2022
16:04
linh
pham



AFTER

MASS
54
AREA
7400
HEIGHT
8110
25-Aug-2022
16:08
linh
pham

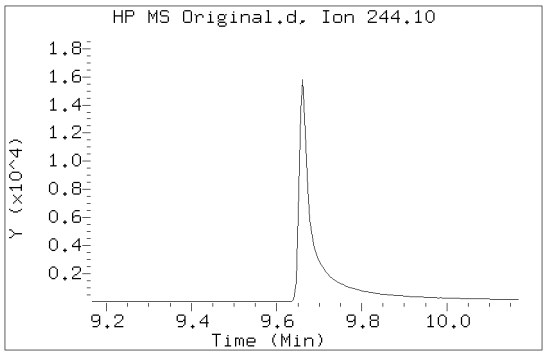


4-Terphenyl-d14 (1718-51-0)

Reason Code:

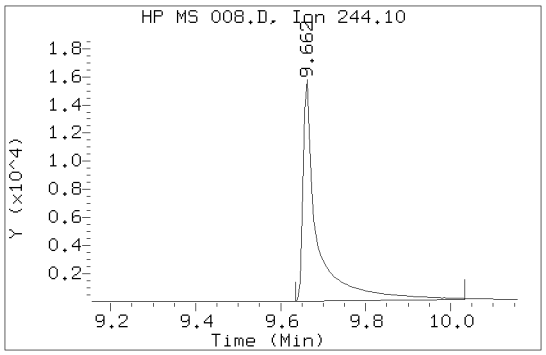
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
244.1
AREA
36799
HEIGHT
15739
25-Aug-2022
16:08
linh
pham

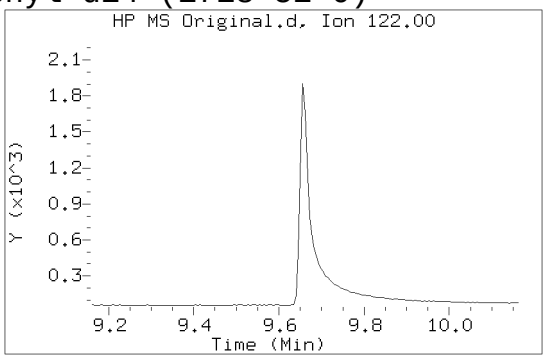


Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\008.D
Inj Date : 10-MAR-2022 12:16
InstruID : SV6.i
LabSampID : 1 4 DX-0.2

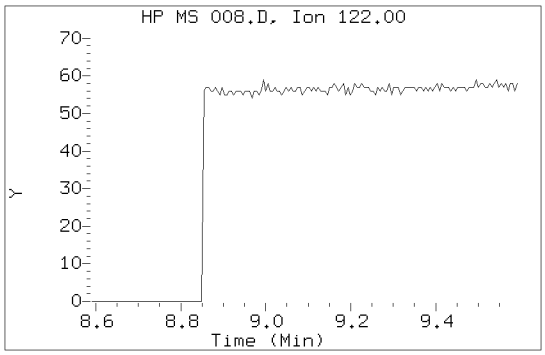
4-Terphenyl-d14 (1718-51-0)

Reason Code:

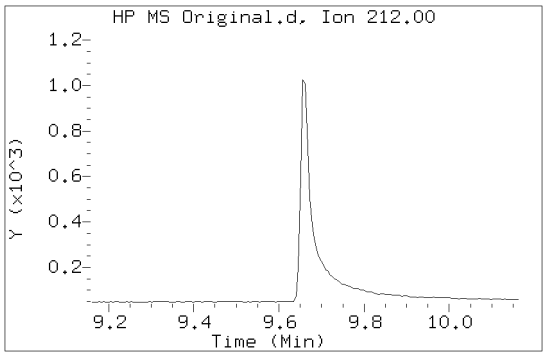
BEFORE
MASS
122
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



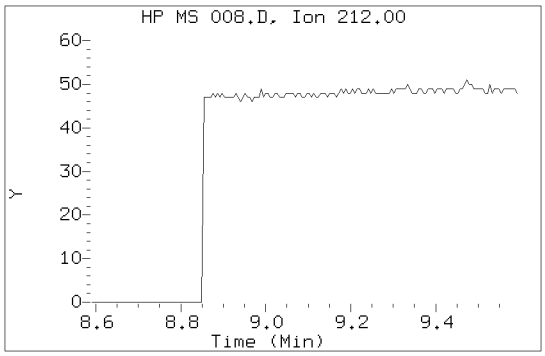
AFTER
MASS
122
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
212
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER
MASS
212
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\009.D Page 1
Report Date: 25-Aug-2022 16:08

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220310.b\009.D
Lab Smp Id: 1 4 DX-0.5 Client Smp ID: 1 4 DX-0.5
Inj Date : 10-MAR-2022 12:56 MS Autotune Date: 09-MAR-2022 11:12
Operator : LG Inst ID: SV6.i
Smp Info : 1 4 DX-0.5;1 4 DX-0.5
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220310.b\DXSIM.m
Meth Date : 25-Aug-2022 16:08 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 12:16 Cal File: 008.D
Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.801	3.801	(1.000)	6911	0.10000	(aQM)
* 45 Naphthalene-d8	136	4.922	4.922	(1.000)	13189	0.10000	(M)
$ 33 Nitrobenzene-d5	82	4.268	4.268	(0.907)	21014	0.50000	0.4780(A)
* 86 Acenaphthene-d10	164	6.603	6.603	(1.000)	7222	0.10000	(QM)
$ 69 2-Fluorobiphenyl	172	5.943	5.943	(1.000)	52166	0.50000	0.4640(A)
* 126 Phenanthrene-d10	188	8.064	8.064	(1.000)	12388	0.10000	
* 182 Chrysene-d12	240	10.969	10.969	(1.000)	3790	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.667	9.667	(0.881)	36357	0.50000	0.5102(AM)
* 198 Perylene-d12	264	13.101	13.101	(1.000)	1809	0.10000	
1 1,4-Dioxane	58	2.049	2.049	(0.539)	1286	0.50000	0.4533(H)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

01140133

Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\009.D

Page 1

Date : 10-MAR-2022 12:56

Client ID: 1 4 DX-0.5

Instrument: SV6.i

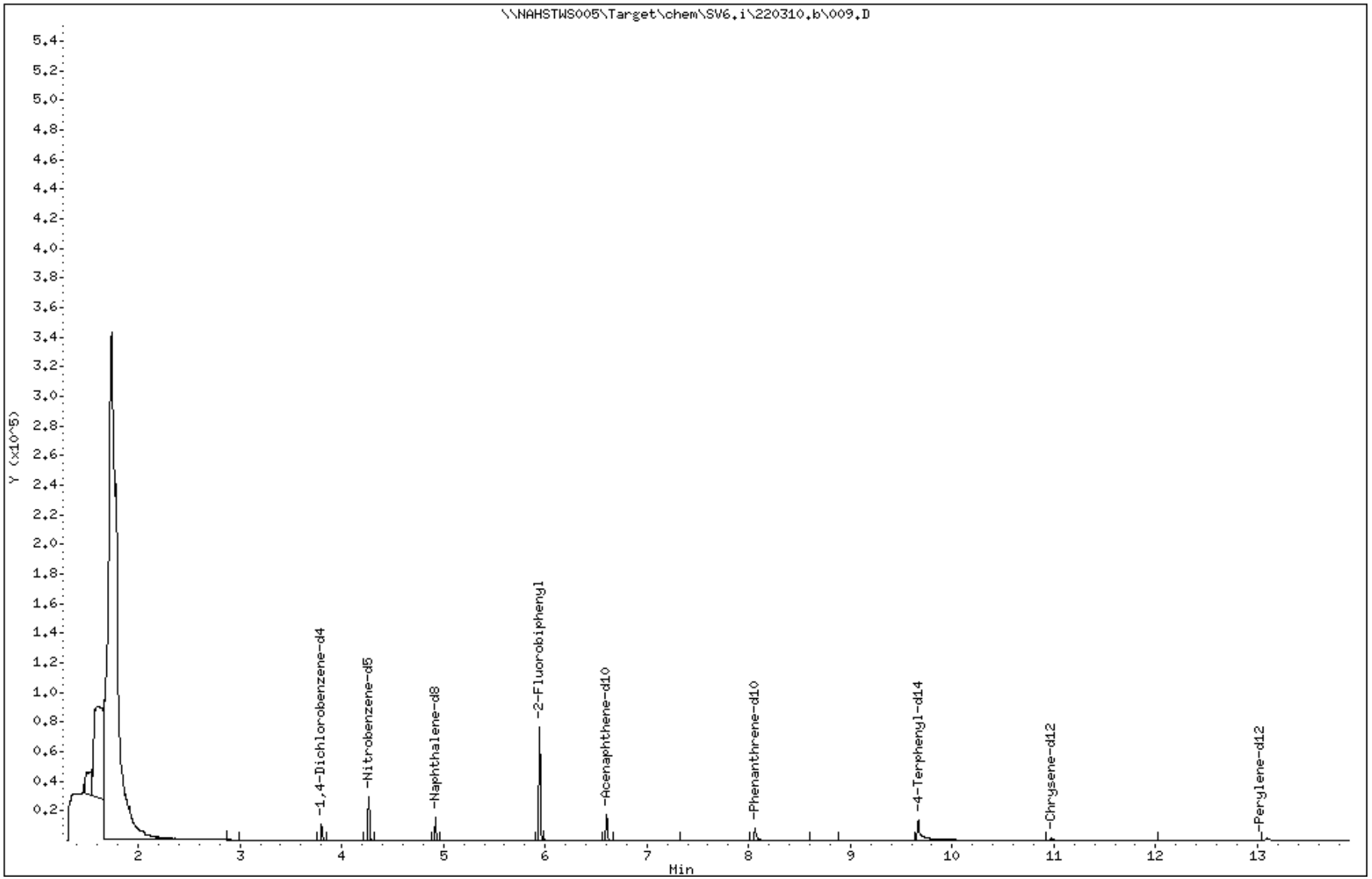
Sample Info: 1 4 DX-0.5;1 4 DX-0.5

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

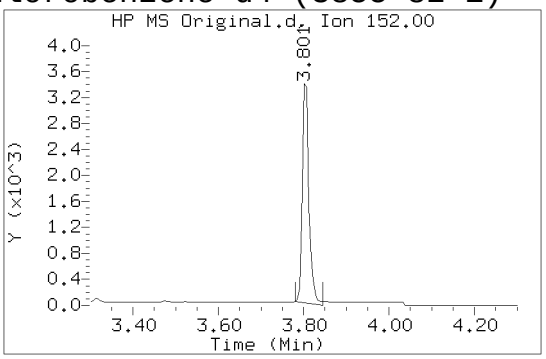


Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\009.D
Inj Date : 10-MAR-2022 12:56
InstruID : SV6.i
LabSampID : 1 4 DX-0.5

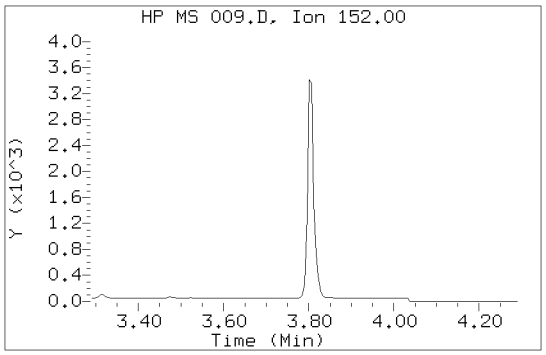
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

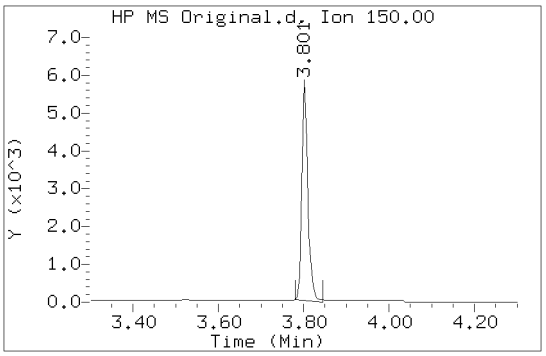
BEFORE
MASS
152
AREA
3578
HEIGHT
3374
25-Aug-2022
16:04
linh
pham



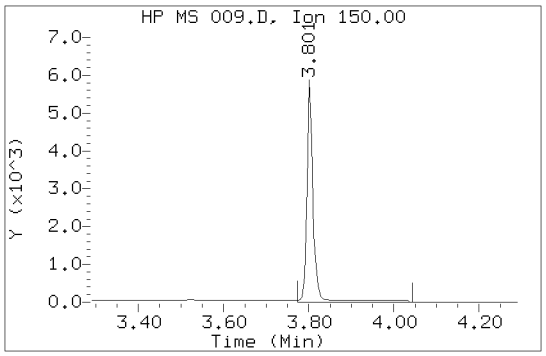
AFTER
MASS
152
AREA
6911
HEIGHT
3414
25-Aug-2022
16:08
linh
pham



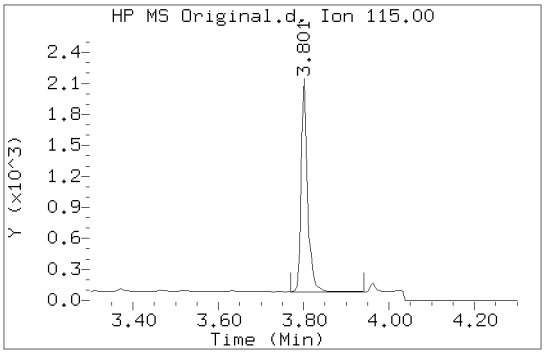
BEFORE
MASS
150
AREA
5548
HEIGHT
5835
25-Aug-2022
16:04
linh
pham



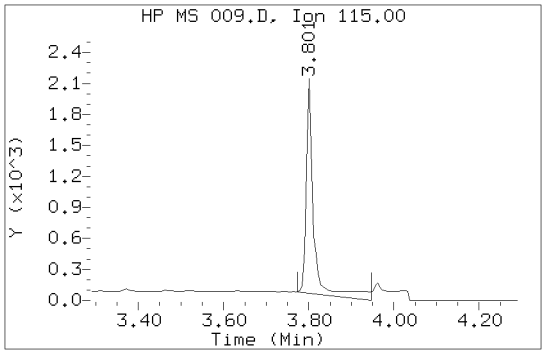
AFTER
MASS
150
AREA
6275
HEIGHT
5877
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
115
AREA
2092
HEIGHT
2063
25-Aug-2022
16:04
linh
pham



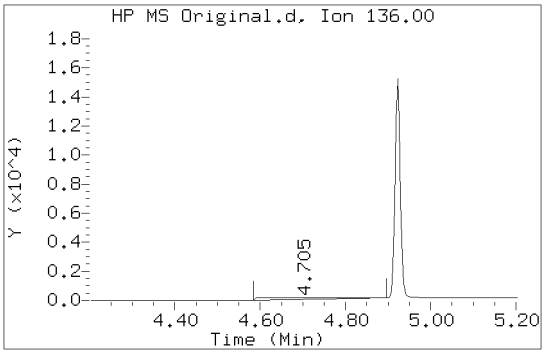
AFTER
MASS
115
AREA
2533
HEIGHT
2075
25-Aug-2022
16:08
linh
pham



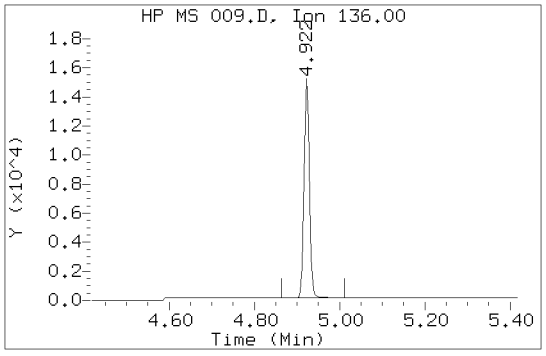
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
1531
HEIGHT
108
25-Aug-2022
16:04
linh
pham



AFTER
MASS
136
AREA
13189
HEIGHT
15077
25-Aug-2022
16:08
linh
pham



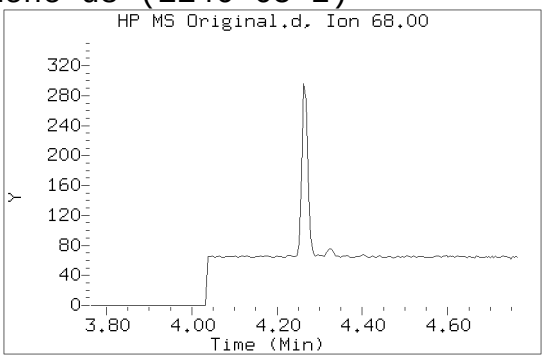
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\009.D
Inj Date : 10-MAR-2022 12:56
InstruID : SV6.i
LabSampID : 1 4 DX-0.5

Naphthalene-d8 (1146-65-2)

Reason Code:

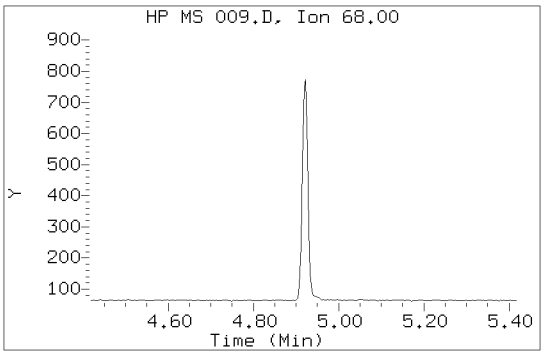
BEFORE

MASS
68
AREA
262
HEIGHT
233
25-Aug-2022
16:04
linh
pham



AFTER

MASS
68
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham

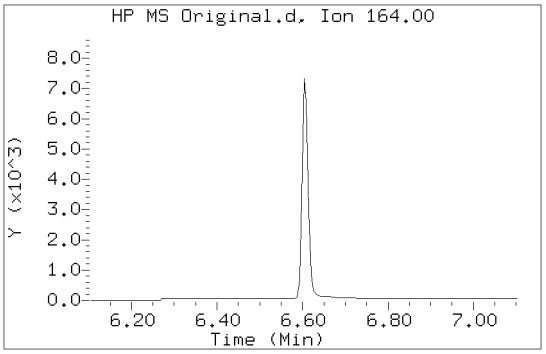


Acenaphthene-d10 (15067-26-2)

Reason Code:

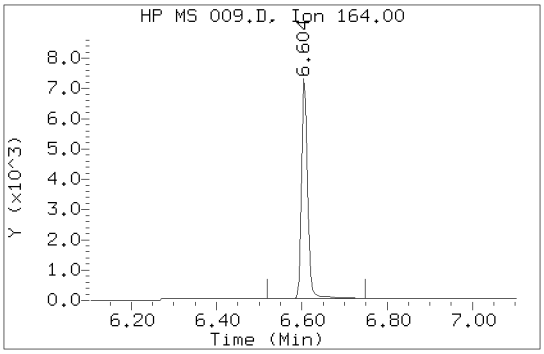
BEFORE

MASS
164
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



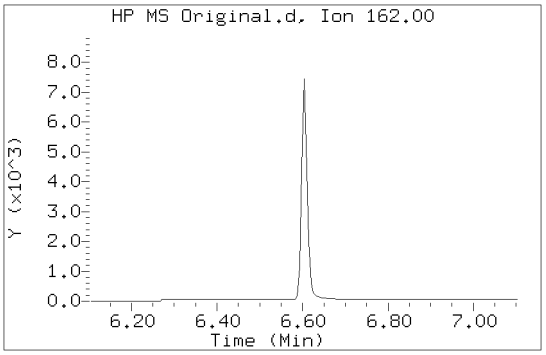
AFTER

MASS
164
AREA
7222
HEIGHT
7257
25-Aug-2022
16:08
linh
pham



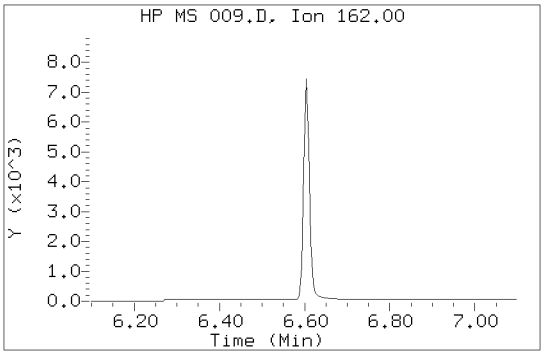
BEFORE

MASS
162
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



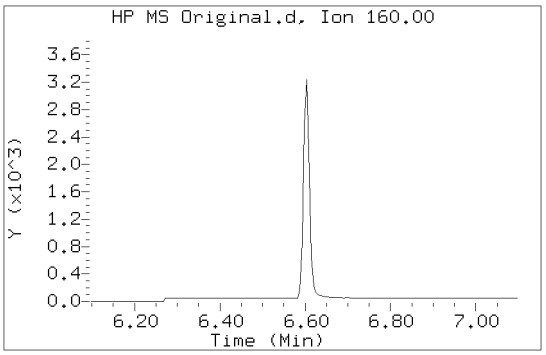
AFTER

MASS
162
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



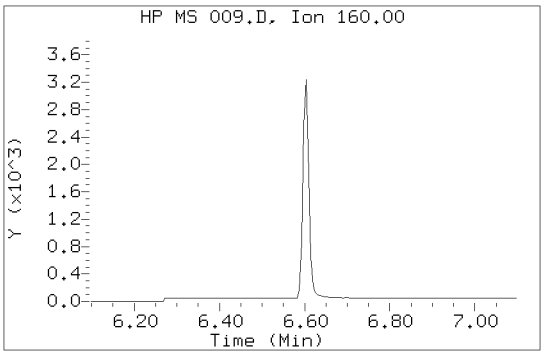
BEFORE

MASS
160
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
160
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



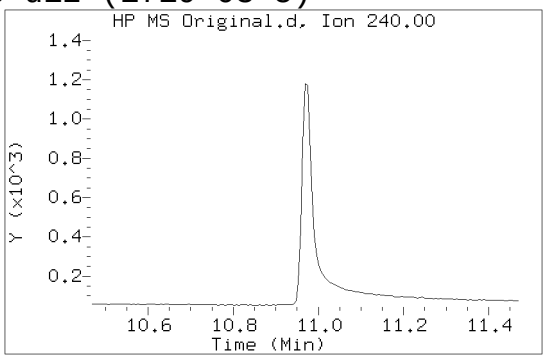
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\009.D
Inj Date : 10-MAR-2022 12:56
InstruID : SV6.i
LabSampID : 1 4 DX-0.5

Chrysene-d12 (1719-03-5)

Reason Code:

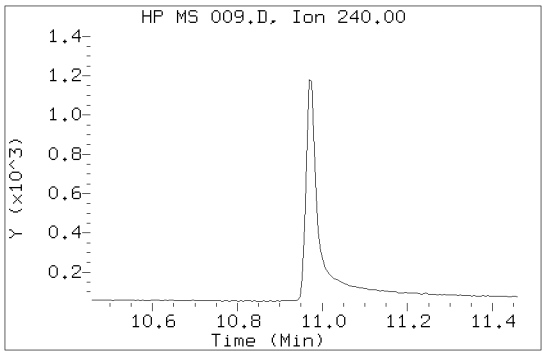
BEFORE

MASS
240
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



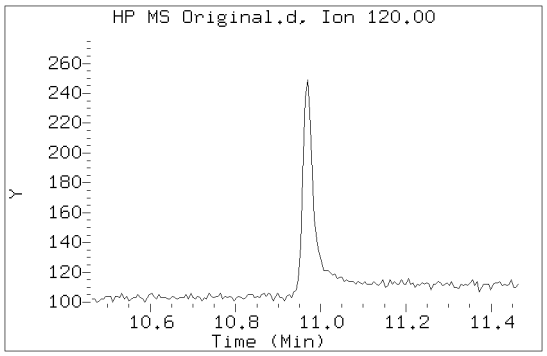
AFTER

MASS
240
AREA
3790
HEIGHT
1133
25-Aug-2022
16:08
linh
pham



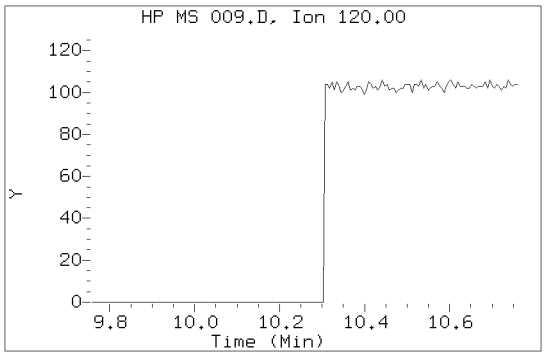
BEFORE

MASS
120
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



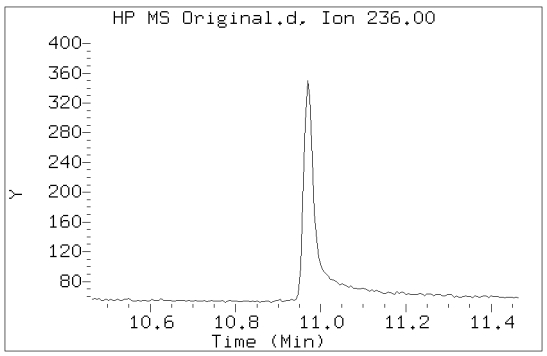
AFTER

MASS
120
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



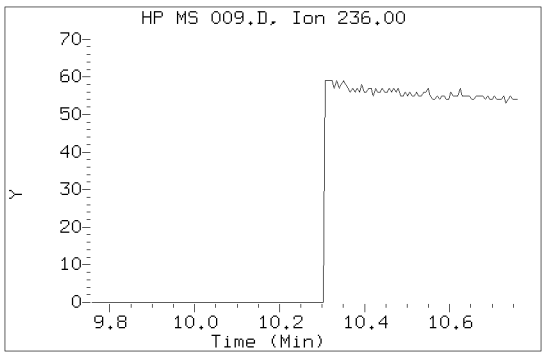
BEFORE

MASS
236
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
236
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham

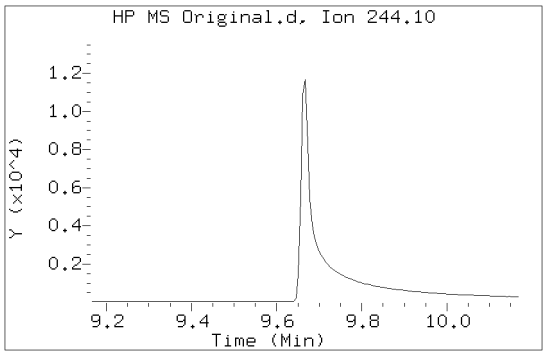


4-Terphenyl-d14 (1718-51-0)

Reason Code:

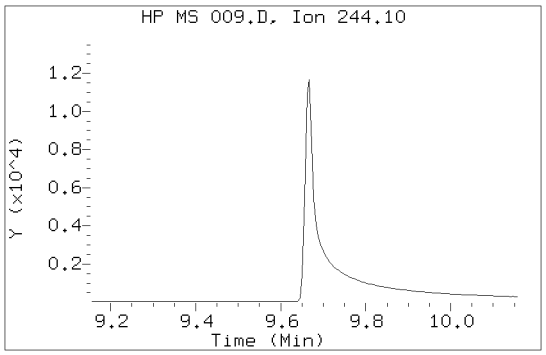
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
244.1
AREA
36357
HEIGHT
11597
25-Aug-2022
16:08
linh
pham

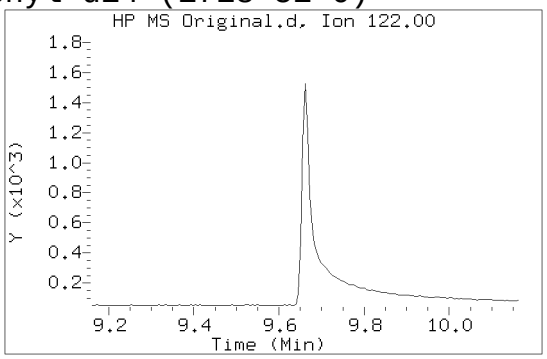


Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\009.D
Inj Date : 10-MAR-2022 12:56
InstruID : SV6.i
LabSampID : 1 4 DX-0.5

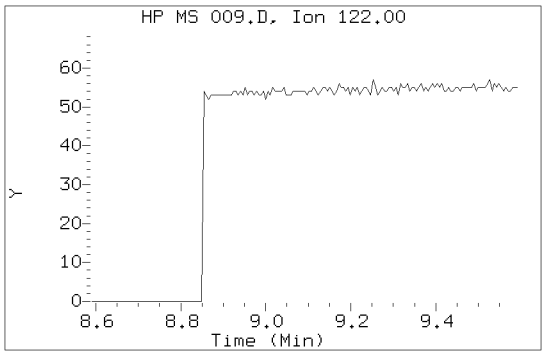
4-Terphenyl-d14 (1718-51-0)

Reason Code:

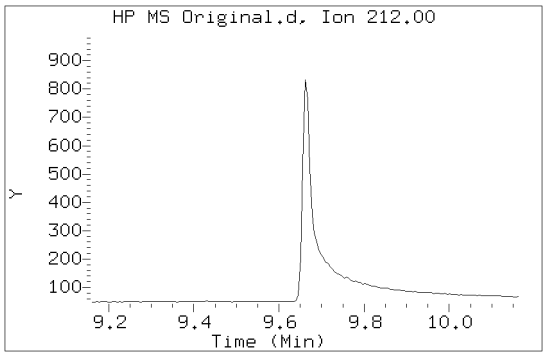
BEFORE
MASS
122
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



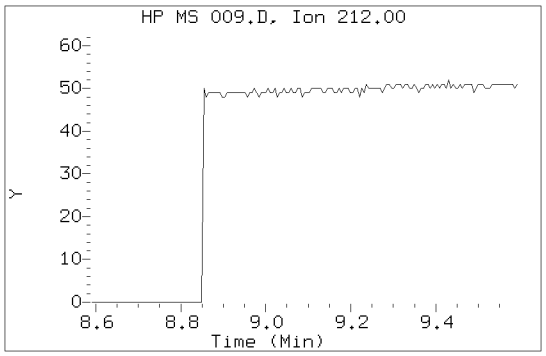
AFTER
MASS
122
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
212
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER
MASS
212
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220310.b\010.D
Lab Smp Id: 1 4 DX-ICV Client Smp ID: 1 4 DX-ICV
Inj Date : 10-MAR-2022 14:15 MS Autotune Date: 09-MAR-2022 11:12
Operator : LG Inst ID: SV6.i
Smp Info : 1 4 DX-ICV;1 4 DX-ICV
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220310.b\DXSIM.m
Meth Date : 25-Aug-2022 16:08 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 12:56 Cal File: 009.D
Als bottle: 10 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	3.795	3.801	(1.000)	6142	0.10000	(aM)
* 45 Naphthalene-d8	136	4.922	4.922	(1.000)	16012	0.10000	(M)
$ 33 Nitrobenzene-d5	82	4.262	4.268	(0.866)	4156	0.07786	0.07786(M)
* 86 Acenaphthene-d10	164	6.609	6.603	(1.000)	8780	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.947	5.943	(0.900)	11167	0.08171	0.08171(M)
* 126 Phenanthrene-d10	188	8.064	8.064	(1.000)	15732	0.10000	
* 182 Chrysene-d12	240	10.974	10.969	(1.000)	6319	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.667	9.667	(0.881)	7838	0.06597	0.06597(M)
* 198 Perylene-d12	264	13.101	13.101	(1.000)	4163	0.10000	(M)
1 1,4-Dioxane	58	2.002	2.049	(0.527)	203	0.08051	0.08051(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01140139

Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\010.D

Page 1

Date : 10-MAR-2022 14:15

Client ID: 1 4 DX-ICV

Instrument: SV6.i

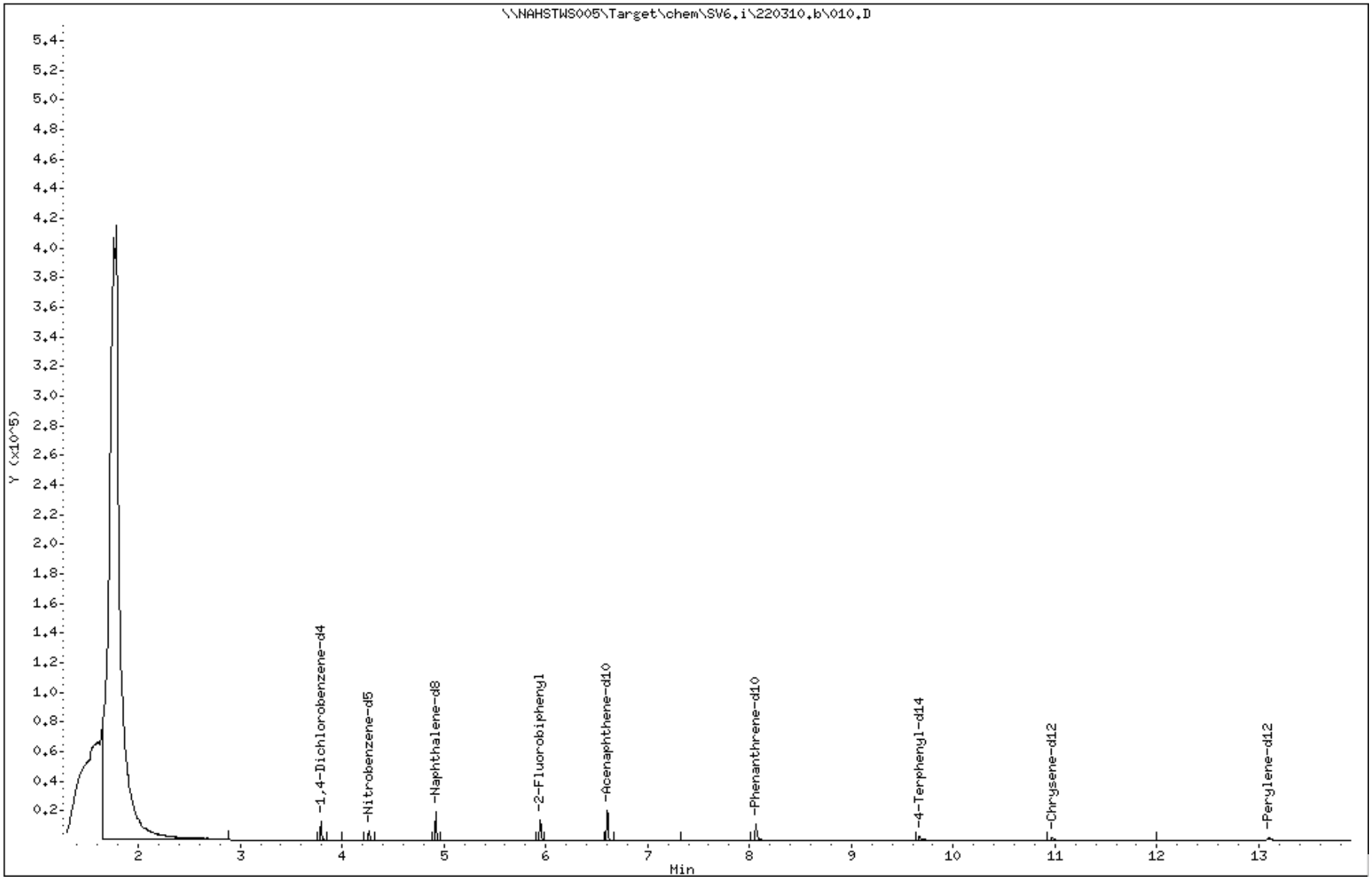
Sample Info: 1 4 DX-ICV;1 4 DX-ICV

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



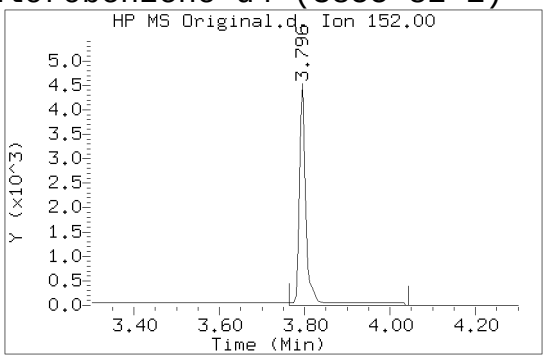
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\010.D
Inj Date : 10-MAR-2022 14:15
InstruID : SV6.i
LabSampID : 1 4 DX-ICV

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

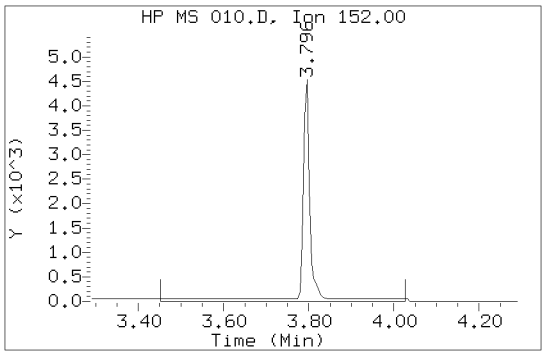
BEFORE

MASS
152
AREA
5222
HEIGHT
4535
25-Aug-2022
16:04
linh
pham



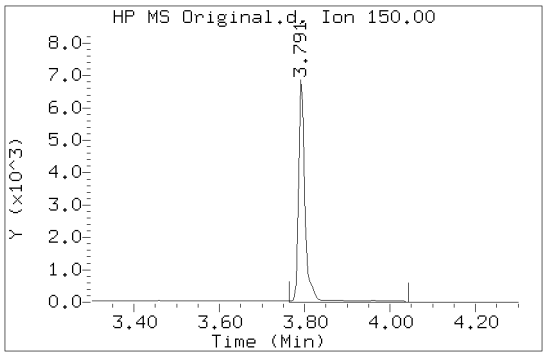
AFTER

MASS
152
AREA
6142
HEIGHT
4535
25-Aug-2022
16:08
linh
pham



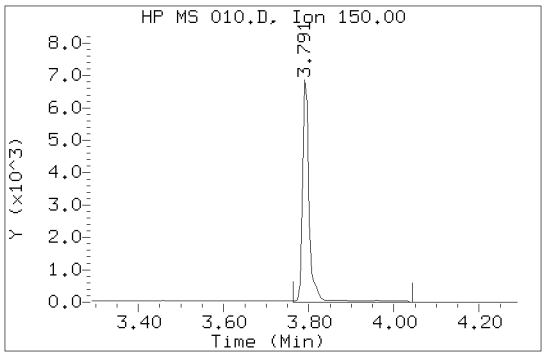
BEFORE

MASS
150
AREA
7641
HEIGHT
6864
25-Aug-2022
16:04
linh
pham



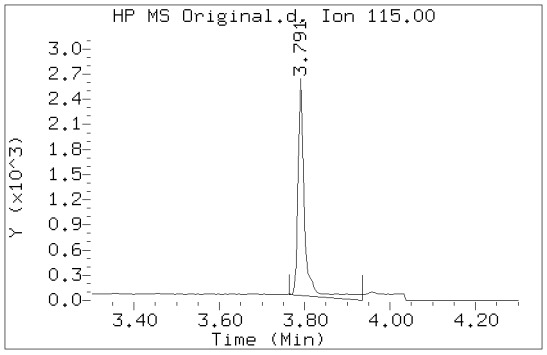
AFTER

MASS
150
AREA
7641
HEIGHT
6864
25-Aug-2022
16:08
linh
pham



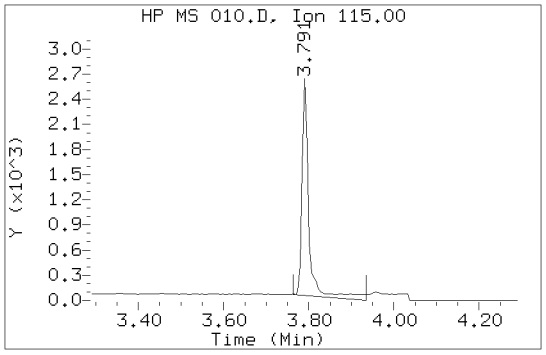
BEFORE

MASS
115
AREA
2822
HEIGHT
2584
25-Aug-2022
16:04
linh
pham



AFTER

MASS
115
AREA
2822
HEIGHT
2584
25-Aug-2022
16:08
linh
pham

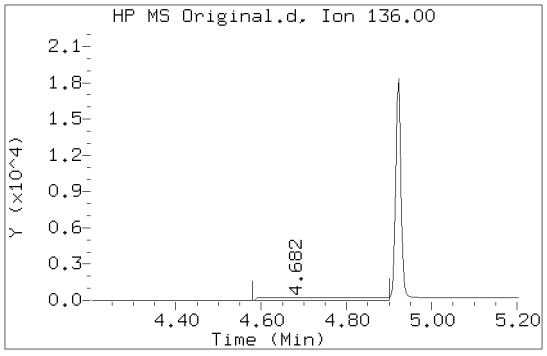


Naphthalene-d8 (1146-65-2)

Reason Code:

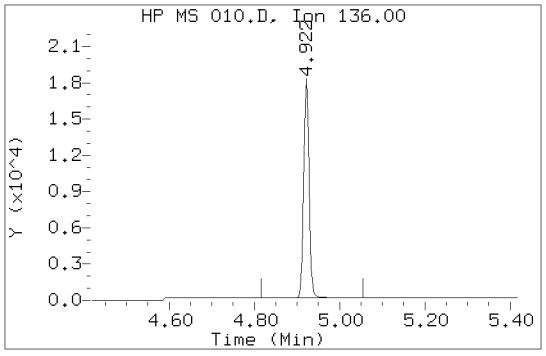
BEFORE

MASS
136
AREA
3810
HEIGHT
208
25-Aug-2022
16:04
linh
pham



AFTER

MASS
136
AREA
16012
HEIGHT
18137
25-Aug-2022
16:08
linh
pham

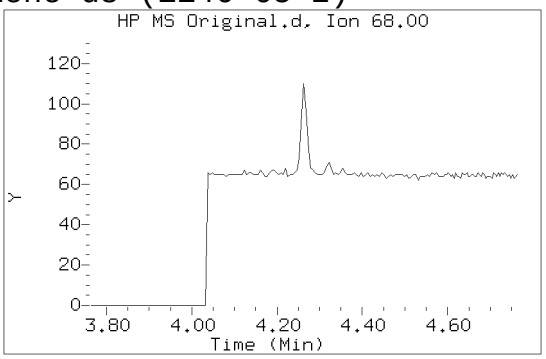


Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\010.D
Inj Date : 10-MAR-2022 14:15
InstruID : SV6.i
LabSampID : 1 4 DX-ICV

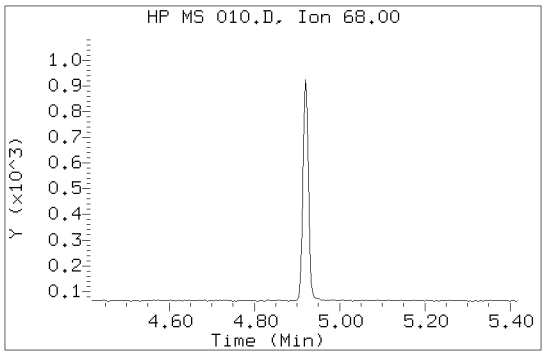
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



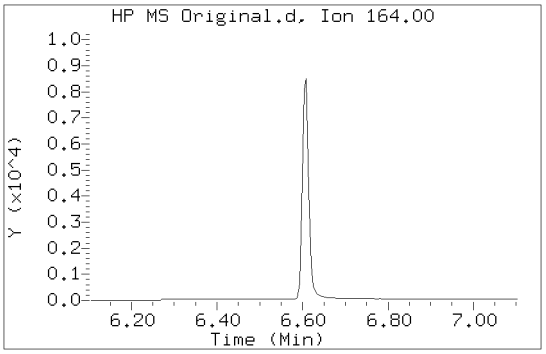
AFTER
MASS
68
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



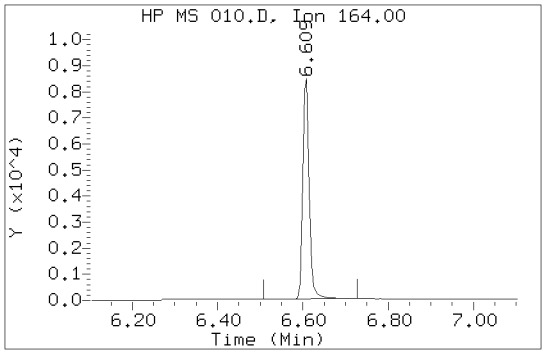
Acenaphthene-d10 (15067-26-2)

Reason Code:

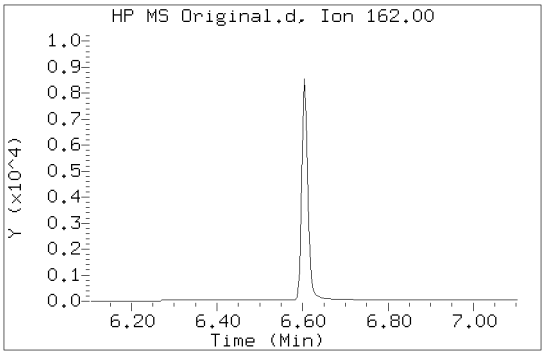
BEFORE
MASS
164
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



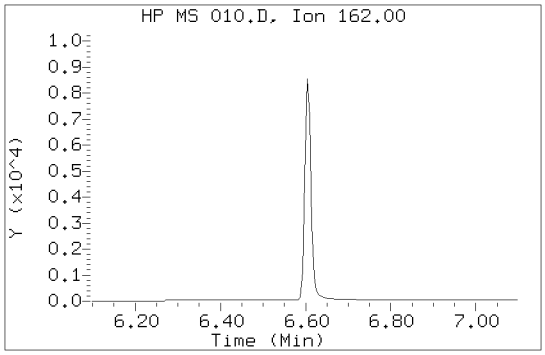
AFTER
MASS
164
AREA
8780
HEIGHT
8443
25-Aug-2022
16:08
linh
pham



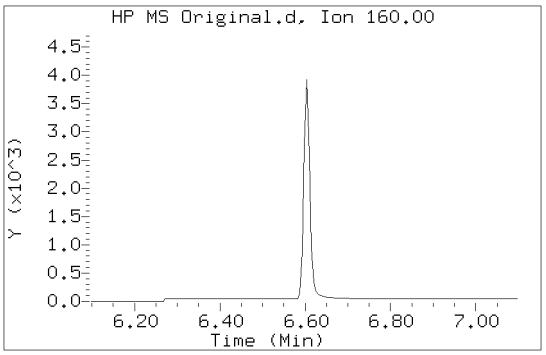
BEFORE
MASS
162
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



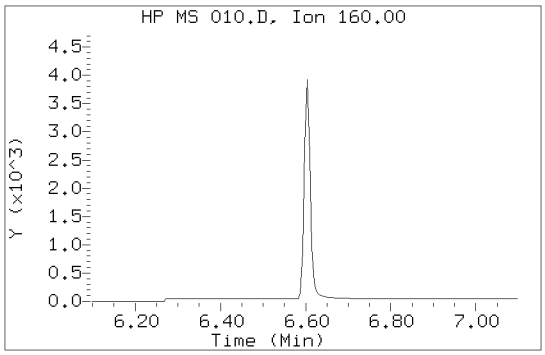
AFTER
MASS
162
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
160
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER
MASS
160
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



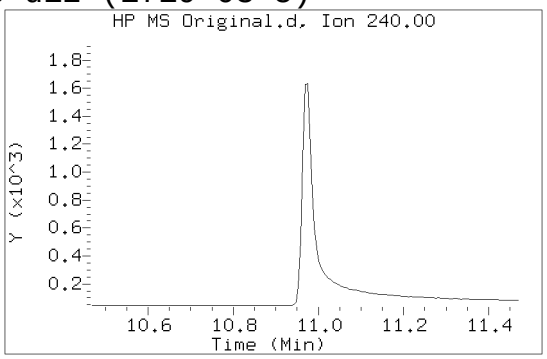
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\010.D
Inj Date : 10-MAR-2022 14:15
InstruID : SV6.i
LabSampID : 1 4 DX-ICV

Chrysene-d12 (1719-03-5)

Reason Code:

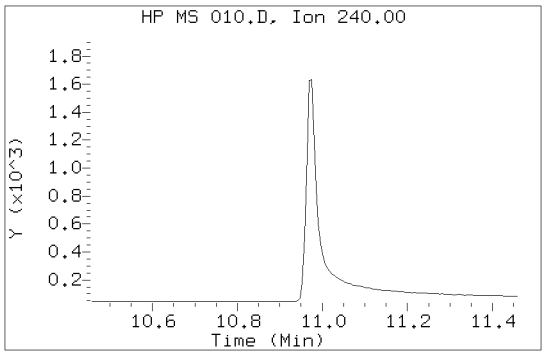
BEFORE

MASS
240
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



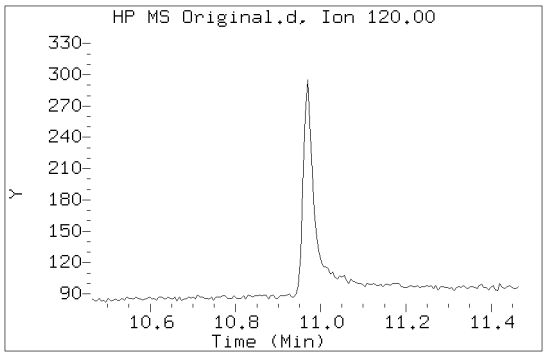
AFTER

MASS
240
AREA
6319
HEIGHT
1596
25-Aug-2022
16:08
linh
pham



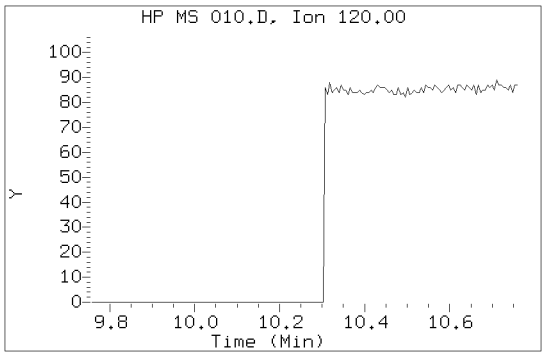
BEFORE

MASS
120
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



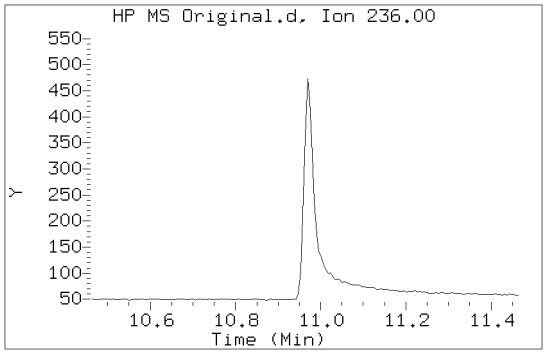
AFTER

MASS
120
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



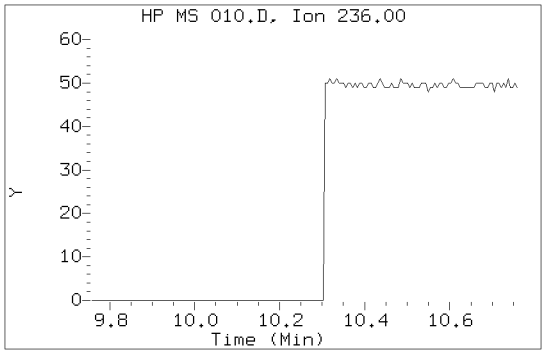
BEFORE

MASS
236
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
236
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham

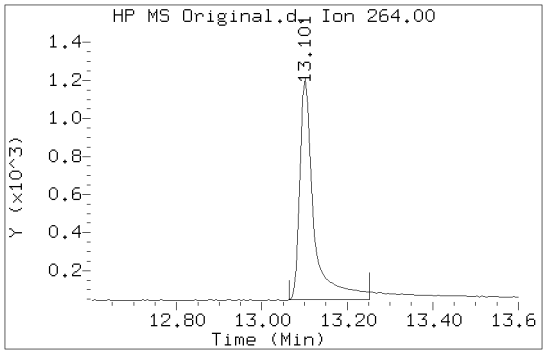


Perylene-d12 (1520-96-3)

Reason Code:

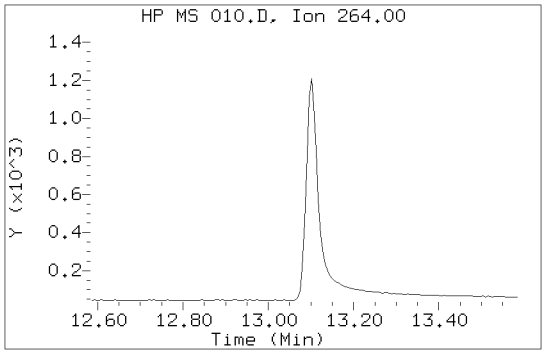
BEFORE

MASS
264
AREA
2659
HEIGHT
1162
25-Aug-2022
16:04
linh
pham



AFTER

MASS
264
AREA
4163
HEIGHT
1174
25-Aug-2022
16:08
linh
pham

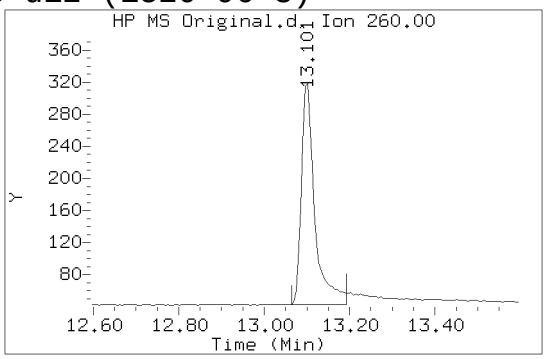


Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\010.D
Inj Date : 10-MAR-2022 14:15
InstruID : SV6.i
LabSampID : 1 4 DX-ICV

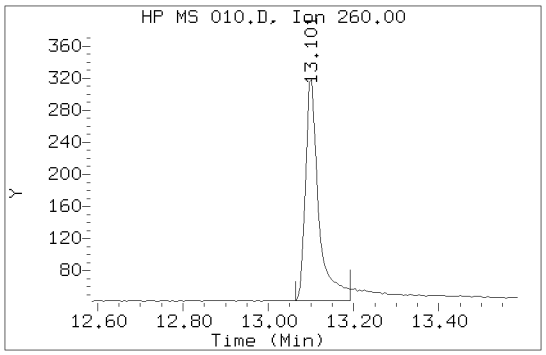
Perylene-d12 (1520-96-3)

Reason Code:

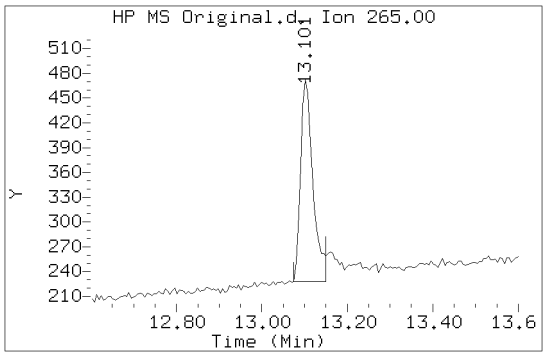
BEFORE
MASS
260
AREA
598
HEIGHT
275
25-Aug-2022
16:04
linh
pham



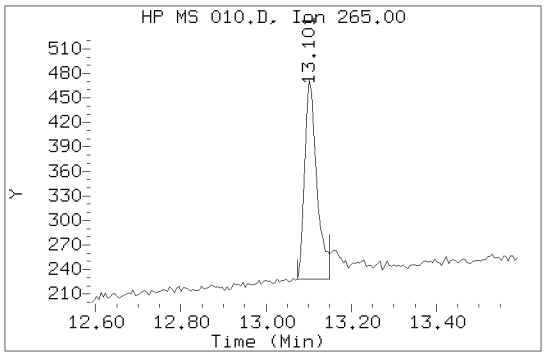
AFTER
MASS
260
AREA
598
HEIGHT
275
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
265
AREA
490
HEIGHT
244
25-Aug-2022
16:04
linh
pham



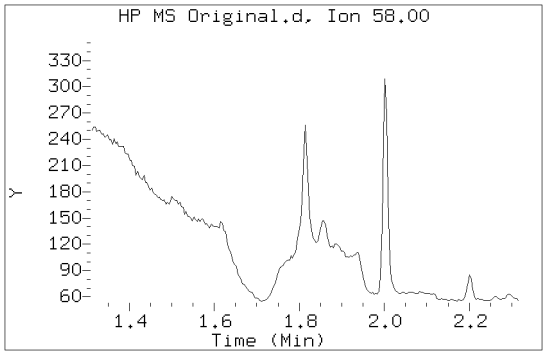
AFTER
MASS
265
AREA
490
HEIGHT
244
25-Aug-2022
16:08
linh
pham



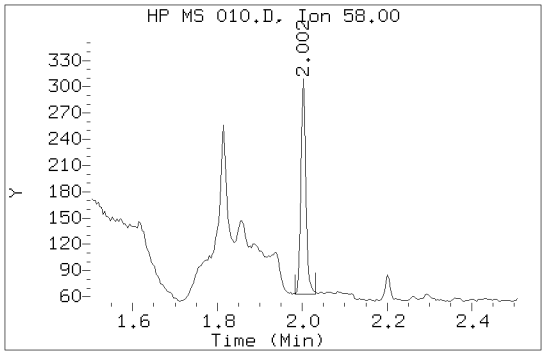
1,4-Dioxane ()

Reason Code:

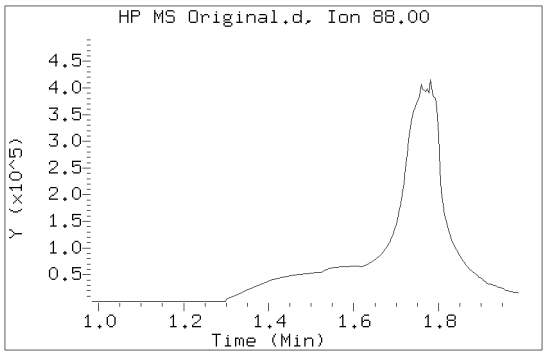
BEFORE
MASS
58
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



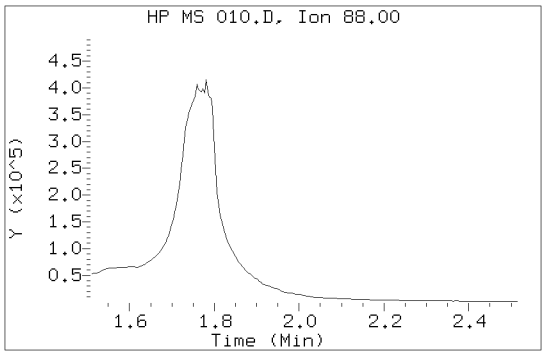
AFTER
MASS
58
AREA
203
HEIGHT
246
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
88
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER
MASS
88
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



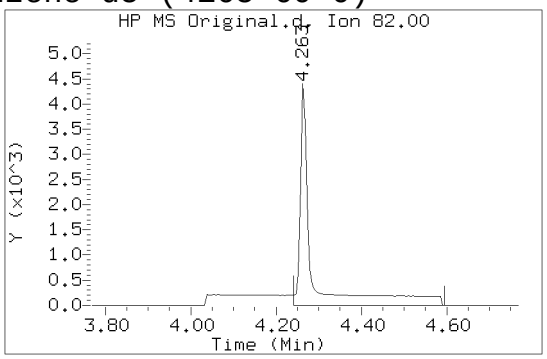
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\010.D
Inj Date : 10-MAR-2022 14:15
InstruID : SV6.i
LabSampID : 1 4 DX-ICV

Nitrobenzene-d5 (4165-60-0)

Reason Code:

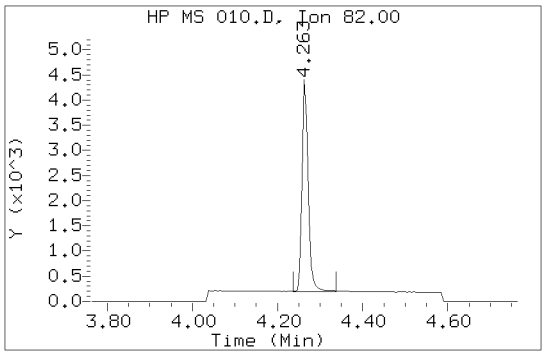
BEFORE

MASS
82
AREA
8115
HEIGHT
4405
25-Aug-2022
16:04
linh
pham



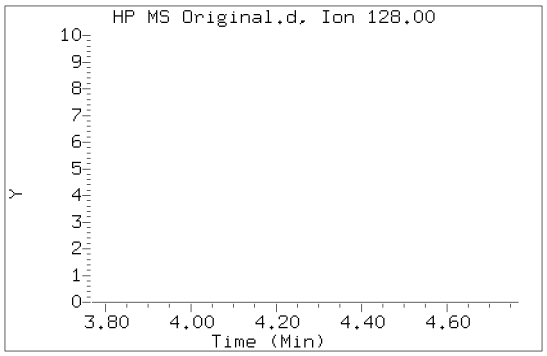
AFTER

MASS
82
AREA
4156
HEIGHT
4208
25-Aug-2022
16:08
linh
pham



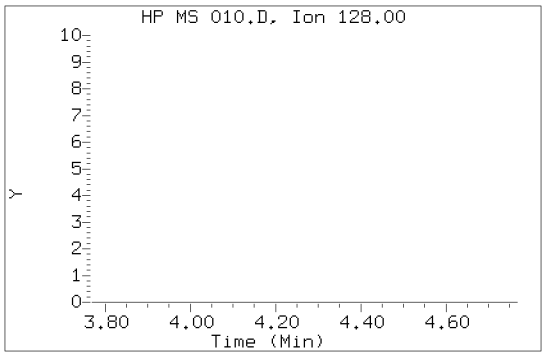
BEFORE

MASS
128
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



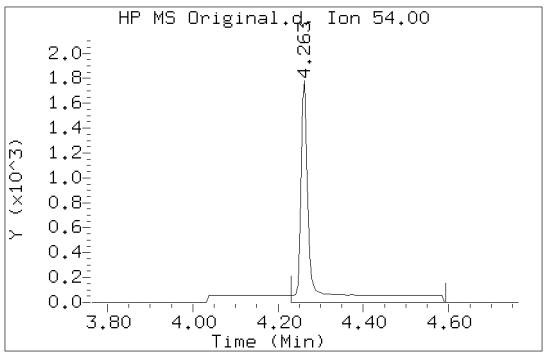
AFTER

MASS
128
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



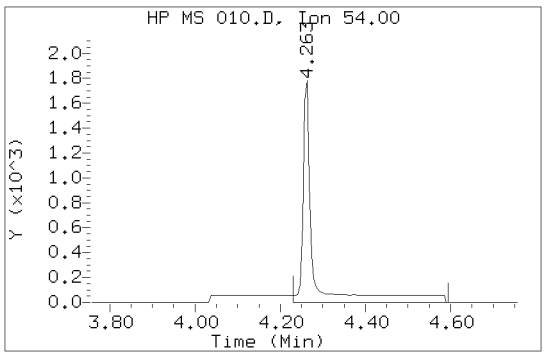
BEFORE

MASS
54
AREA
2997
HEIGHT
1781
25-Aug-2022
16:04
linh
pham



AFTER

MASS
54
AREA
2997
HEIGHT
1781
25-Aug-2022
16:08
linh
pham

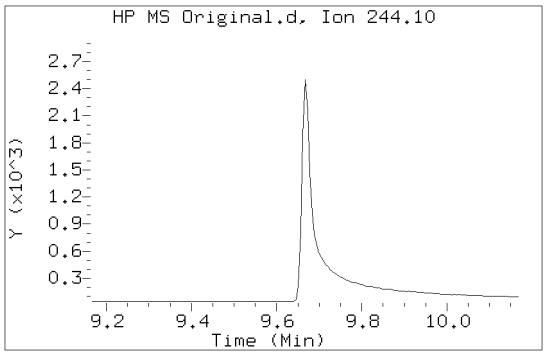


4-Terphenyl-d14 (1718-51-0)

Reason Code:

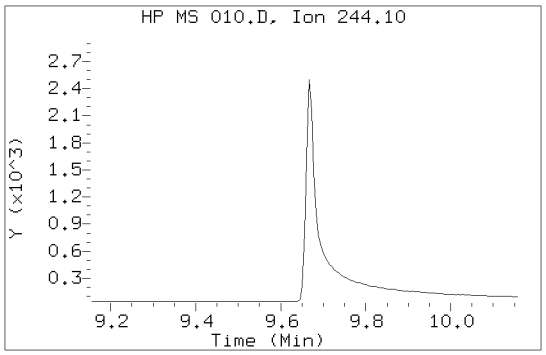
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
244.1
AREA
7838
HEIGHT
2457
25-Aug-2022
16:08
linh
pham

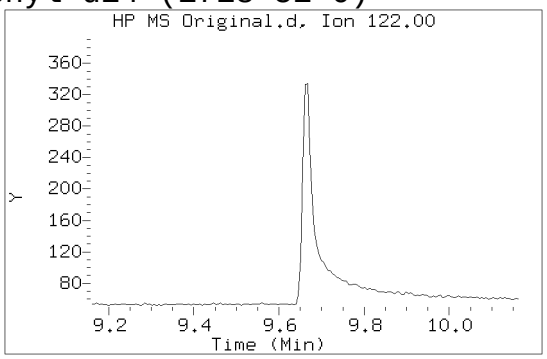


Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\010.D
Inj Date : 10-MAR-2022 14:15
InstruID : SV6.i
LabSampID : 1 4 DX-ICV

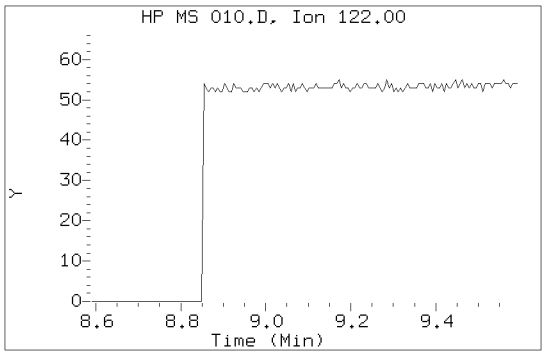
4-Terphenyl-d14 (1718-51-0)

Reason Code:

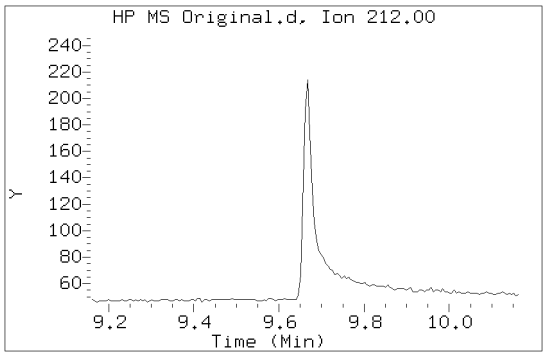
BEFORE
MASS
122
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



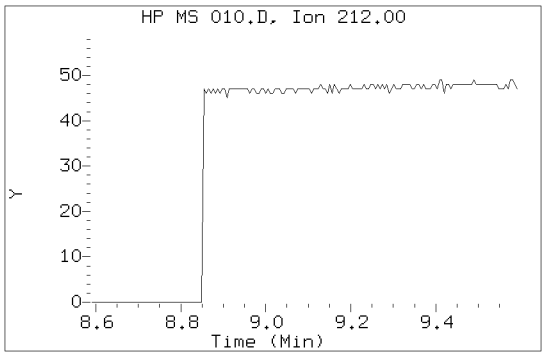
AFTER
MASS
122
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
212
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



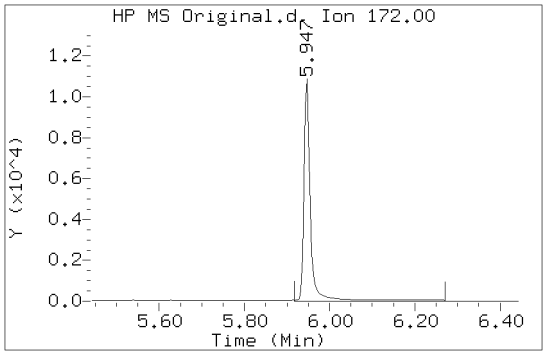
AFTER
MASS
212
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



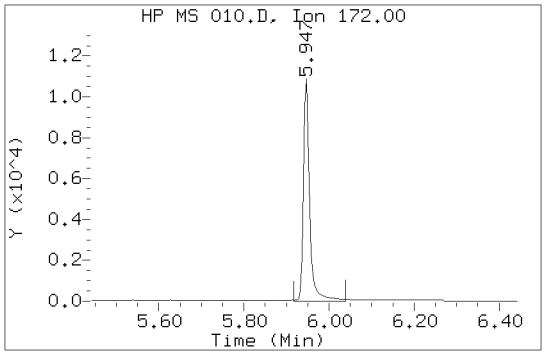
2-Fluorobiphenyl (321-60-8)

Reason Code:

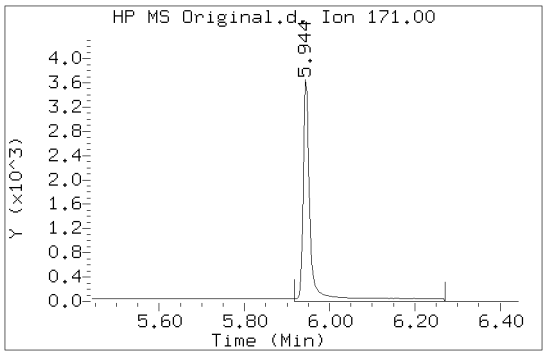
BEFORE
MASS
172
AREA
11965
HEIGHT
10878
25-Aug-2022
16:04
linh
pham



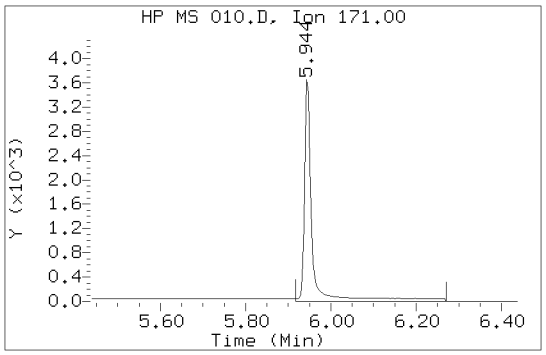
AFTER
MASS
172
AREA
11167
HEIGHT
10878
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
171
AREA
4702
HEIGHT
3651
25-Aug-2022
16:04
linh
pham



AFTER
MASS
171
AREA
4702
HEIGHT
3651
25-Aug-2022
16:08
linh
pham



right solutions.
right partner.

Raw Data SV-6 416162

Workorder

HS22080927

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

09/07/2022

Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\01.D

Date : 23-AUG-2022 09:33

Client ID: DFTPP

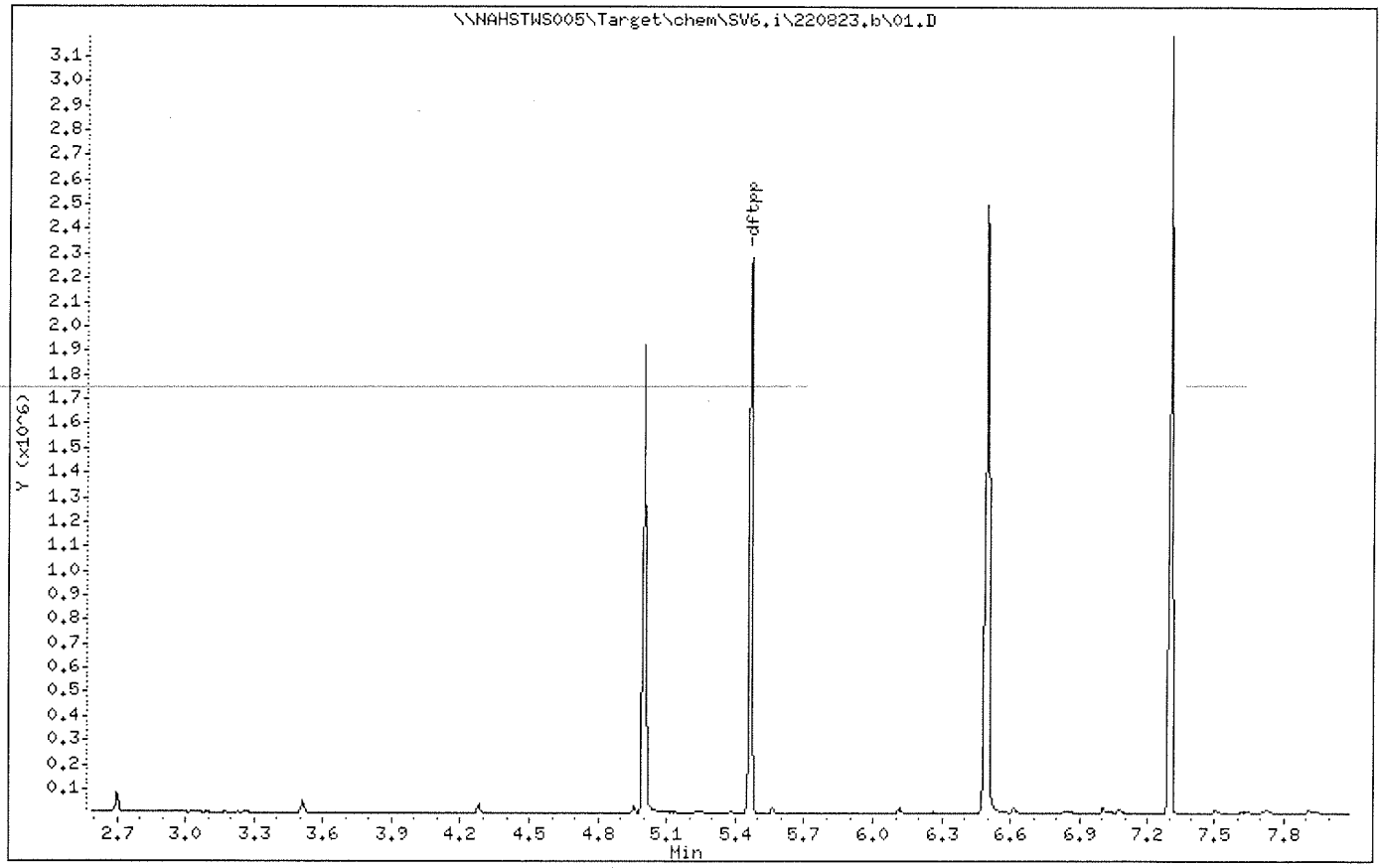
Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\01.D

Date : 23-AUG-2022 09:33

Client ID: DFTPP

Instrument: SV6.i

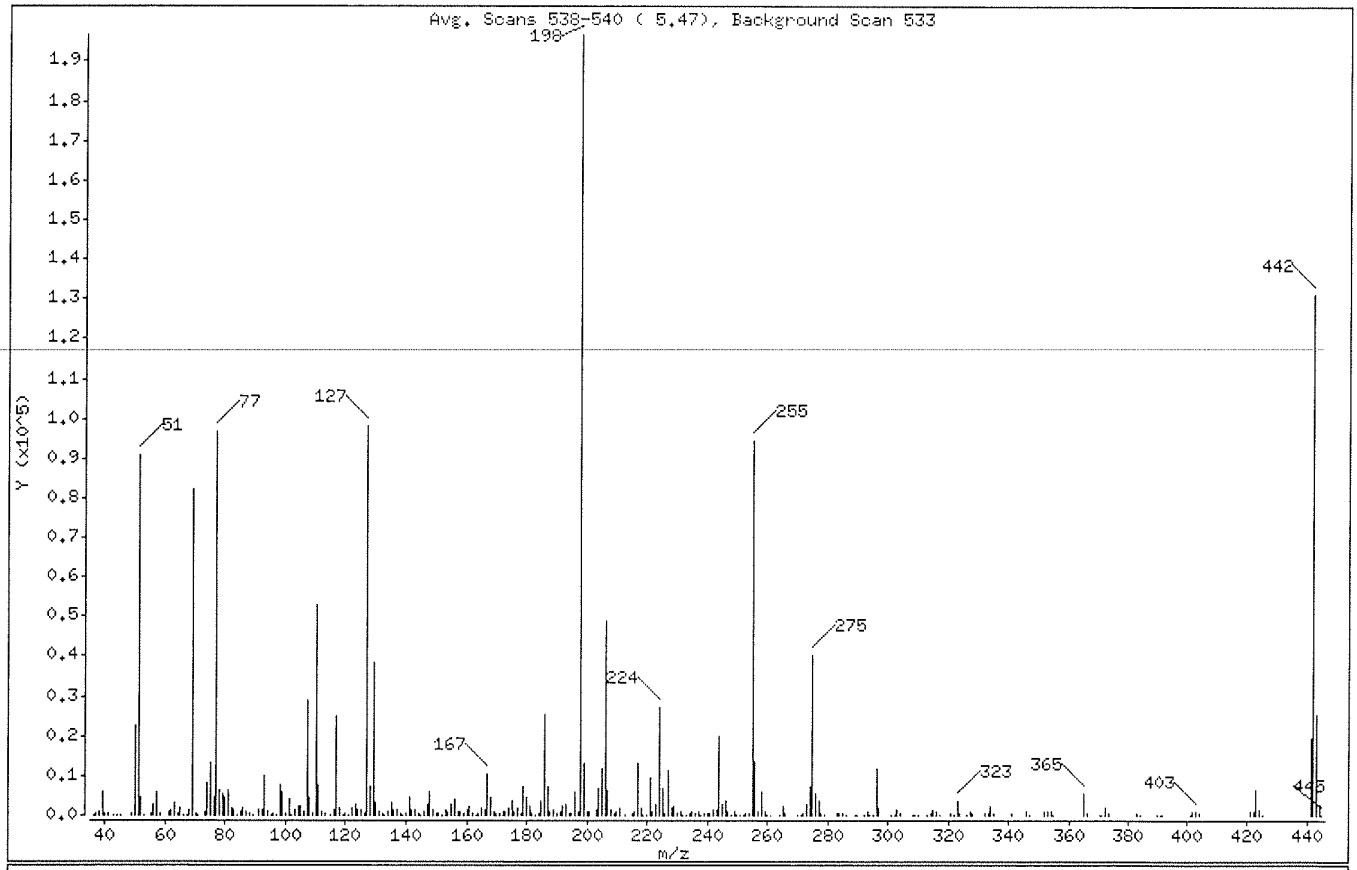
Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	46.31
68	Less than 2.00% of mass 69	0.59 (1.41)
69	Mass 69 relative abundance	41.75
70	Less than 2.00% of mass 69	0.21 (0.50)
127	10.00 - 80.00% of mass 198	49.98
197	Less than 2.00% of mass 198	0.57
199	5.00 - 9.00% of mass 198	6.67
275	10.00 - 60.00% of mass 198	20.40
365	1.00 - 100.00% of mass 198	2.67
441	Present, but less than mass 443	9.93
442	50.00 - 150.00% of mass 198	66.75
443	15.00 - 24.00% of mass 442	12.79 (19.16)

Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\01.D

Date : 23-AUG-2022 09:33

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: Avg. Scans 538-540 (5.47), Background Scan 533
Location of Maximum: 198.00
Number of points: 293

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	71	120.00	367	194.00	571	276.00	5207
37.00	372	121.00	130	195.00	382	277.00	3419
38.00	960	122.00	1761	196.00	5711	278.00	533
39.00	5917	123.00	2799	197.00	1124	279.00	73
40.00	255	124.00	1289	198.00	196544	283.00	423
41.00	231	125.00	1232	199.00	13108	284.00	269
43.00	108	126.00	419	200.00	947	285.00	618
44.00	39	127.00	98240	201.00	865	286.00	53
45.00	175	128.00	7138	203.00	1351	289.00	74
49.00	514	129.00	38368	204.00	6834	290.00	62
50.00	22528	130.00	3289	205.00	11717	292.00	181
51.00	91024	131.00	722	206.00	48912	293.00	793
52.00	4378	132.00	304	207.00	6122	294.00	163
53.00	165	133.00	186	208.00	1503	295.00	184
55.00	409	134.00	1076	209.00	502	296.00	11552
56.00	2576	135.00	3063	210.00	743	297.00	1717
57.00	5964	136.00	1261	211.00	1795	301.00	61
58.00	283	137.00	1357	213.00	117	302.00	165
61.00	1004	138.00	288	215.00	525	303.00	1347
62.00	1170	139.00	171	216.00	1006	304.00	311
63.00	3200	140.00	476	217.00	12913	308.00	144
64.00	399	141.00	4712	218.00	1603	309.00	50
65.00	1631	142.00	1517	219.00	205	310.00	143
66.00	50	143.00	1136	220.00	85	313.00	50
67.00	59	144.00	231	221.00	9563	314.00	539
68.00	1160	145.00	224	222.00	968	315.00	1290
69.00	82048	146.00	753	223.00	2928	316.00	717
70.00	407	147.00	2514	224.00	27192	317.00	70
71.00	53	148.00	5897	225.00	6745	321.00	371
73.00	698	149.00	1148	226.00	662	322.00	175
74.00	8269	150.00	271	227.00	11386	323.00	3679
75.00	12928	151.00	654	228.00	1586	324.00	641
76.00	4546	152.00	184	229.00	2265	326.00	52
77.00	96640	153.00	1528	230.00	291	327.00	713
78.00	6146	154.00	1124	231.00	914	328.00	375

Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\01.D

Date : 23-AUG-2022 09:33

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: Avg. Scans 538-540 (5.47), Background Scan 533
Location of Maximum: 198.00
Number of points: 293

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.00	5514	155.00	2645	232.00	154	332.00	231
80.00	4336	156.00	3901	233.00	189	333.00	376
81.00	6503	157.00	781	234.00	656	334.00	2328
82.00	1587	158.00	741	235.00	826	335.00	529
83.00	1517	159.00	561	236.00	538	341.00	419
84.00	96	160.00	1544	237.00	818	346.00	805
85.00	1077	161.00	2254	238.00	50	347.00	60
86.00	1653	162.00	567	239.00	405	352.00	1074
87.00	800	163.00	170	240.00	272	353.00	737
88.00	342	164.00	237	241.00	537	354.00	1105
89.00	139	165.00	1758	242.00	1366	355.00	152
91.00	1388	166.00	1375	243.00	1287	365.00	5245
92.00	1550	167.00	10546	244.00	19952	366.00	653
93.00	10129	168.00	4441	245.00	2596	370.00	70
94.00	705	169.00	739	246.00	3797	371.00	202
95.00	189	170.00	245	247.00	784	372.00	1775
96.00	478	171.00	397	248.00	153	373.00	451
97.00	185	172.00	871	249.00	696	383.00	558
98.00	7864	173.00	1122	250.00	147	384.00	62
99.00	5741	174.00	1950	251.00	183	390.00	200
100.00	511	175.00	3761	252.00	220	391.00	83
101.00	3864	176.00	1080	253.00	448	392.00	62
102.00	186	177.00	1712	254.00	672	401.00	56
103.00	1159	178.00	554	255.00	94248	402.00	786
104.00	2188	179.00	7321	256.00	13638	403.00	1053
105.00	2068	180.00	4741	257.00	971	404.00	346
106.00	727	181.00	2356	258.00	5933	421.00	862
107.00	28824	182.00	322	259.00	870	422.00	835
108.00	4345	183.00	172	260.00	137	423.00	6425
109.00	644	184.00	516	261.00	153	424.00	1207
110.00	52784	185.00	3436	264.00	214	425.00	51
111.00	7830	186.00	25456	265.00	2398	441.00	19512
112.00	966	187.00	7025	266.00	469	442.00	131200
113.00	302	188.00	711	270.00	72	443.00	25136
115.00	50	189.00	1539	271.00	199	444.00	2181

Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\01.D

Date : 23-AUG-2022 09:33

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: Avg. Scans 538-540 (5.47), Background Scan 533
Location of Maximum: 198.00
Number of points: 293

m/z	Y	m/z	Y	m/z	Y	m/z	Y
116.00	1474	190.00	266	272.00	257	445.00	58
117.00	24712	191.00	688	273.00	2833		
118.00	1761	192.00	2347	274.00	7258		
119.00	199	193.00	2642	275.00	40104		

Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\03.D Page 1
Report Date: 25-Aug-2022 16:19

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220823.b\03.D
Lab Smp Id: 1 4DIOX-CCV Client Smp ID: 1 4DIOX-CCV
Inj Date : 23-AUG-2022 10:31
Operator : LG Inst ID: SV6.i
Smp Info : 1 4DIOX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220823.b\DXSIM.m
Meth Date : 25-Aug-2022 16:19 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 12:56 Cal File: 009.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)	
* 20 1,4-Dichlorobenzene-d4	152	3.592	3.592	(1.000)	6003	0.10000		(aM)
* 45 Naphthalene-d8	136	4.705	4.705	(1.000)	15829	0.10000		(M)
$ 33 Nitrobenzene-d5	82	4.059	4.059	(0.863)	3958	0.08000	0.07501	(QM)
* 86 Acenaphthene-d10	164	6.376	6.376	(1.000)	7005	0.10000		(QM)
$ 69 2-Fluorobiphenyl	172	5.718	5.718	(0.897)	8702	0.08000	0.07981	(M)
* 126 Phenanthrene-d10	188	7.827	7.827	(1.000)	17339	0.10000		(M)
* 182 Chrysene-d12	240	10.657	10.657	(1.000)	7501	0.10000		(M)
$ 158 4-Terphenyl-d14	244	9.408	9.408	(0.883)	10691	0.08000	0.07581	(M)
* 198 Perylene-d12	264	12.724	12.724	(1.000)	5111	0.10000		
1 1,4-Dioxane	58	1.887	1.887	(0.525)	213	0.08000	0.08643	(aQM)

QC Flag Legend

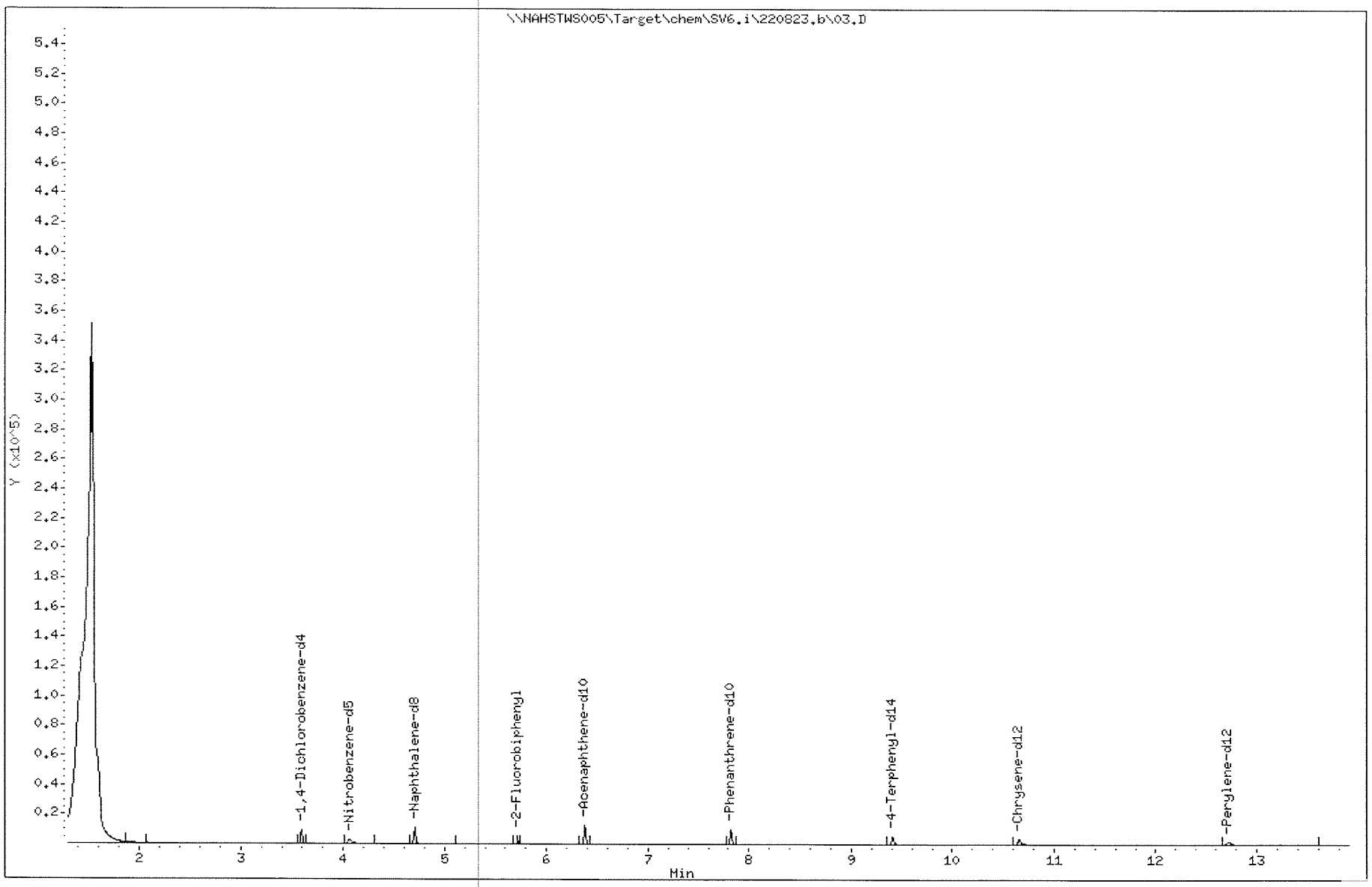
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

01140153

Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\03.D
Date : 23-AUG-2022 10:31
Client ID: 1 4DIOX-CCV
Sample Info: 1 4DIOX-0.08
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

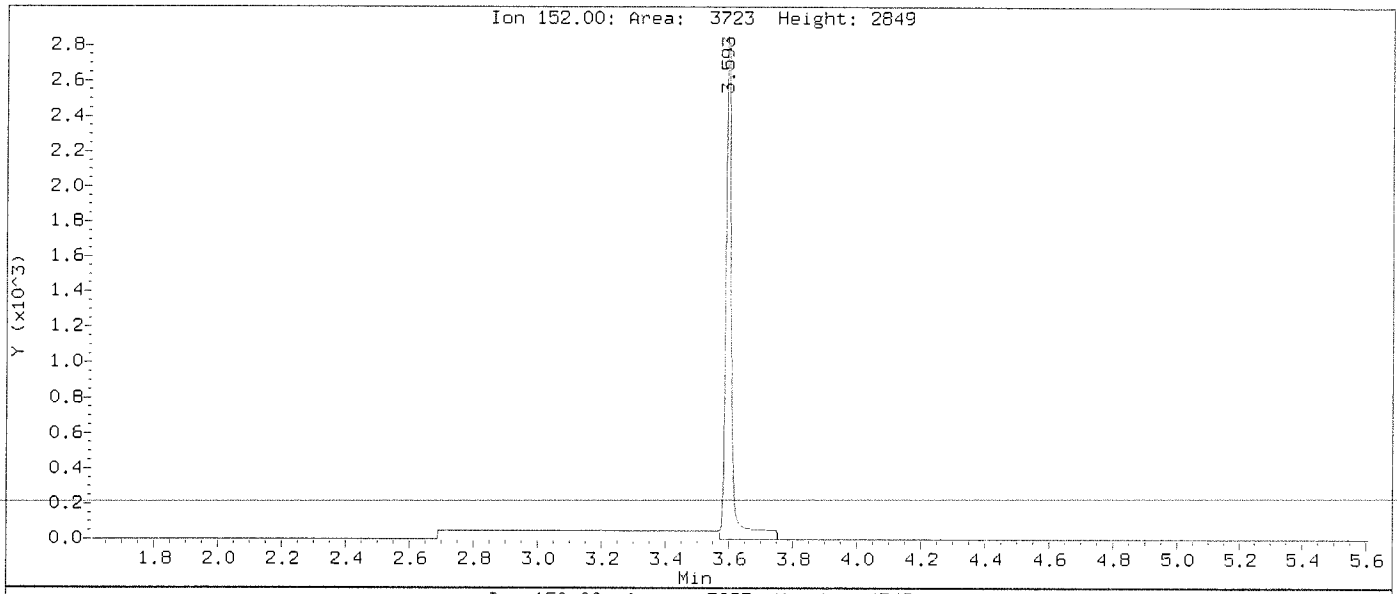
Instrument: SV6.i

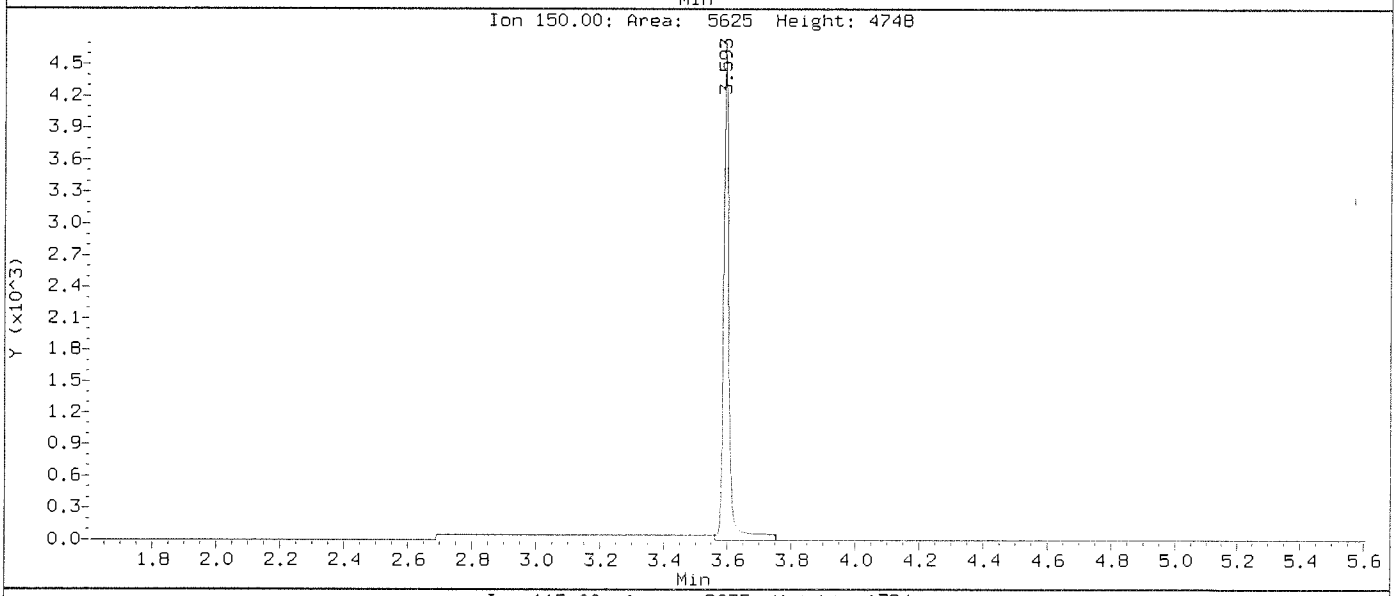
Operator: LG
Column diameter: 0.28

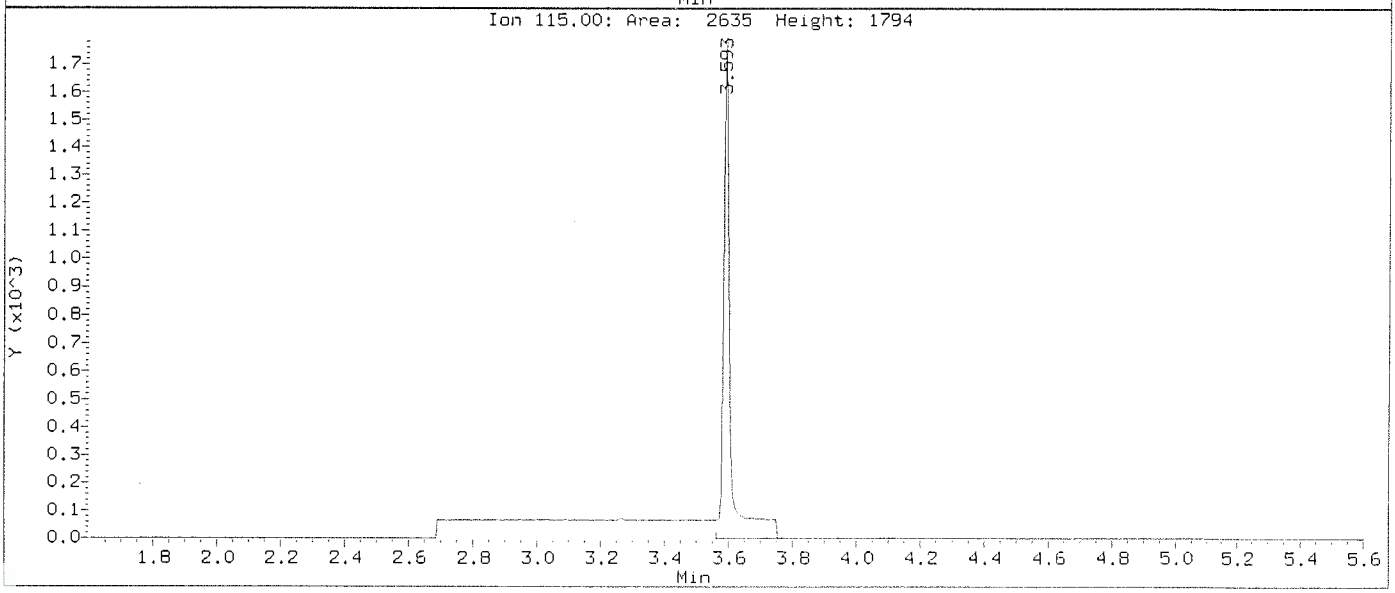


Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\Before\03.D
Injection Date: 23-AUG-2022 10:31
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

Compound: 1,4-Dichlorobenzene-d4
CAS Number: 3855-82-1

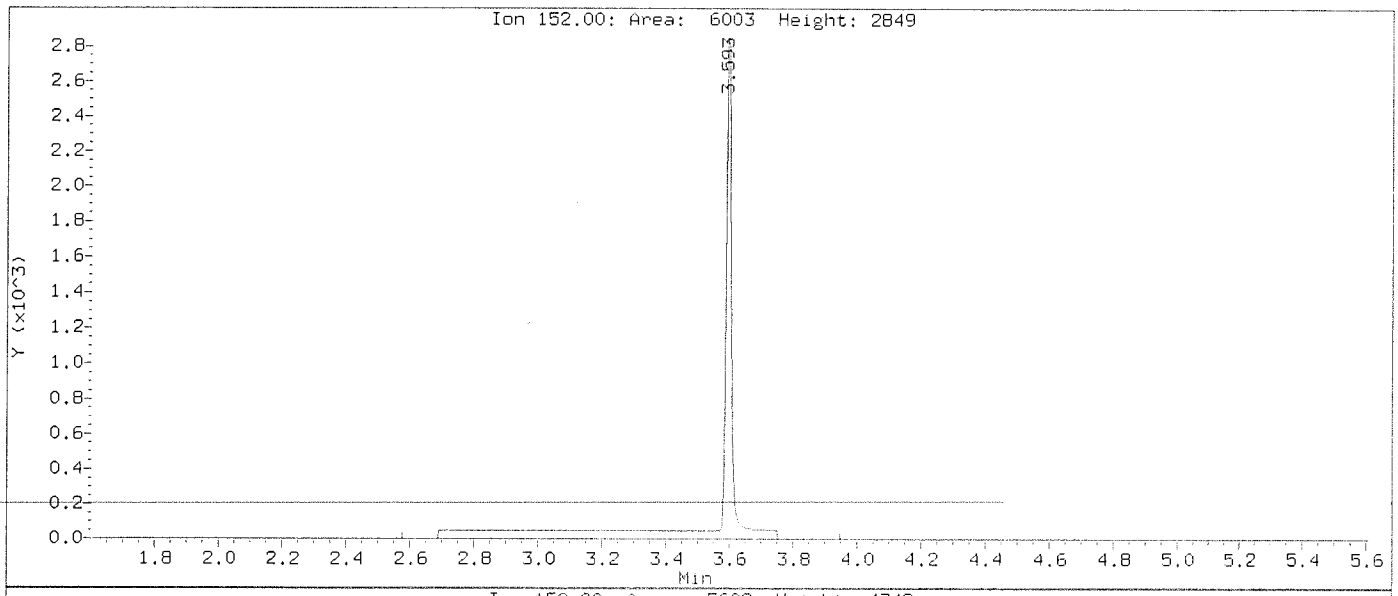


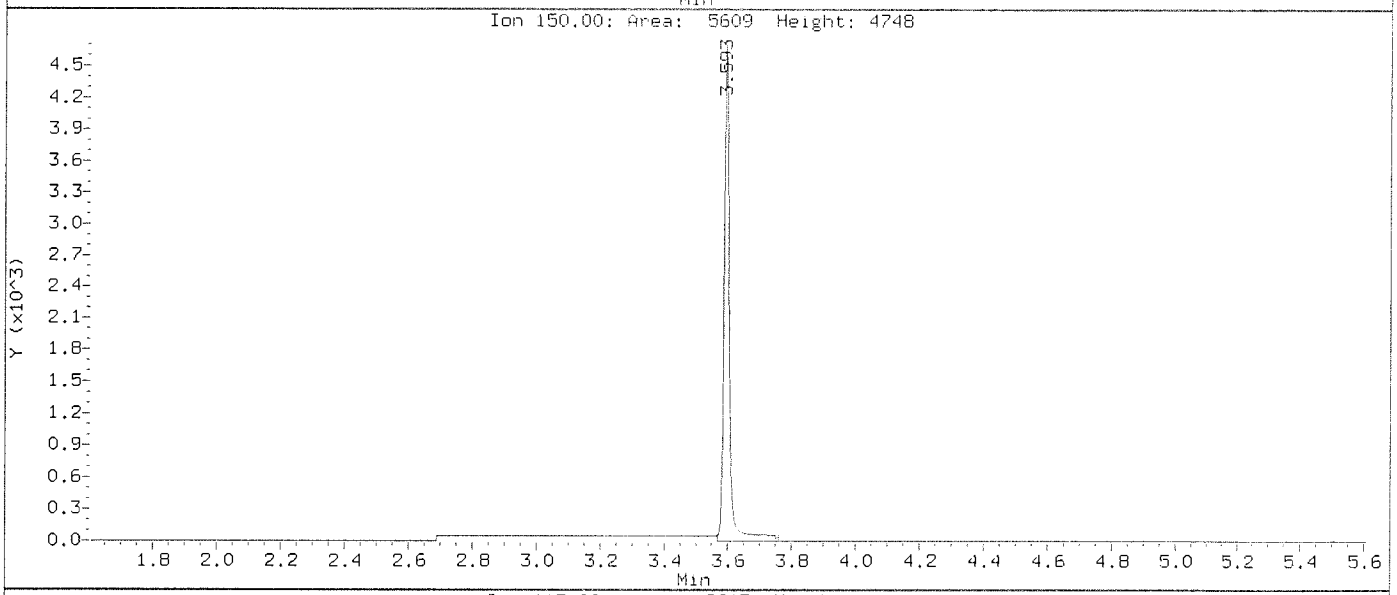


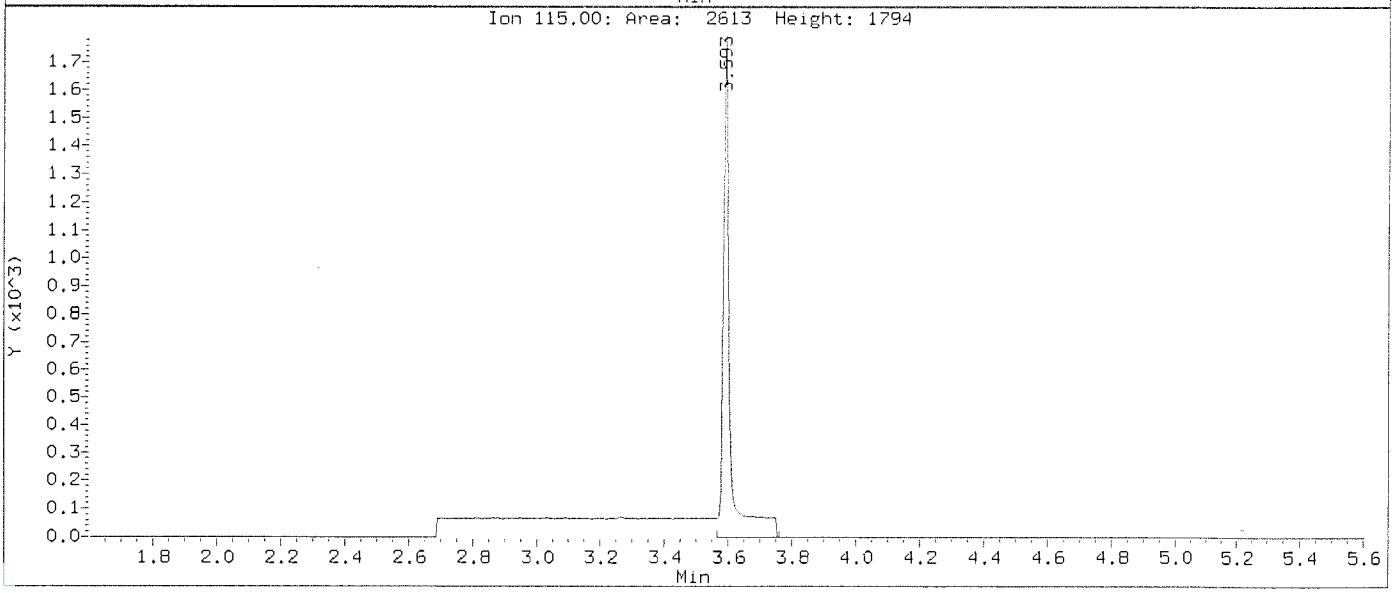


Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\03.D
Injection Date: 23-AUG-2022 10:31
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

Compound: 1,4-Dichlorobenzene-d4
CAS Number: 3855-82-1

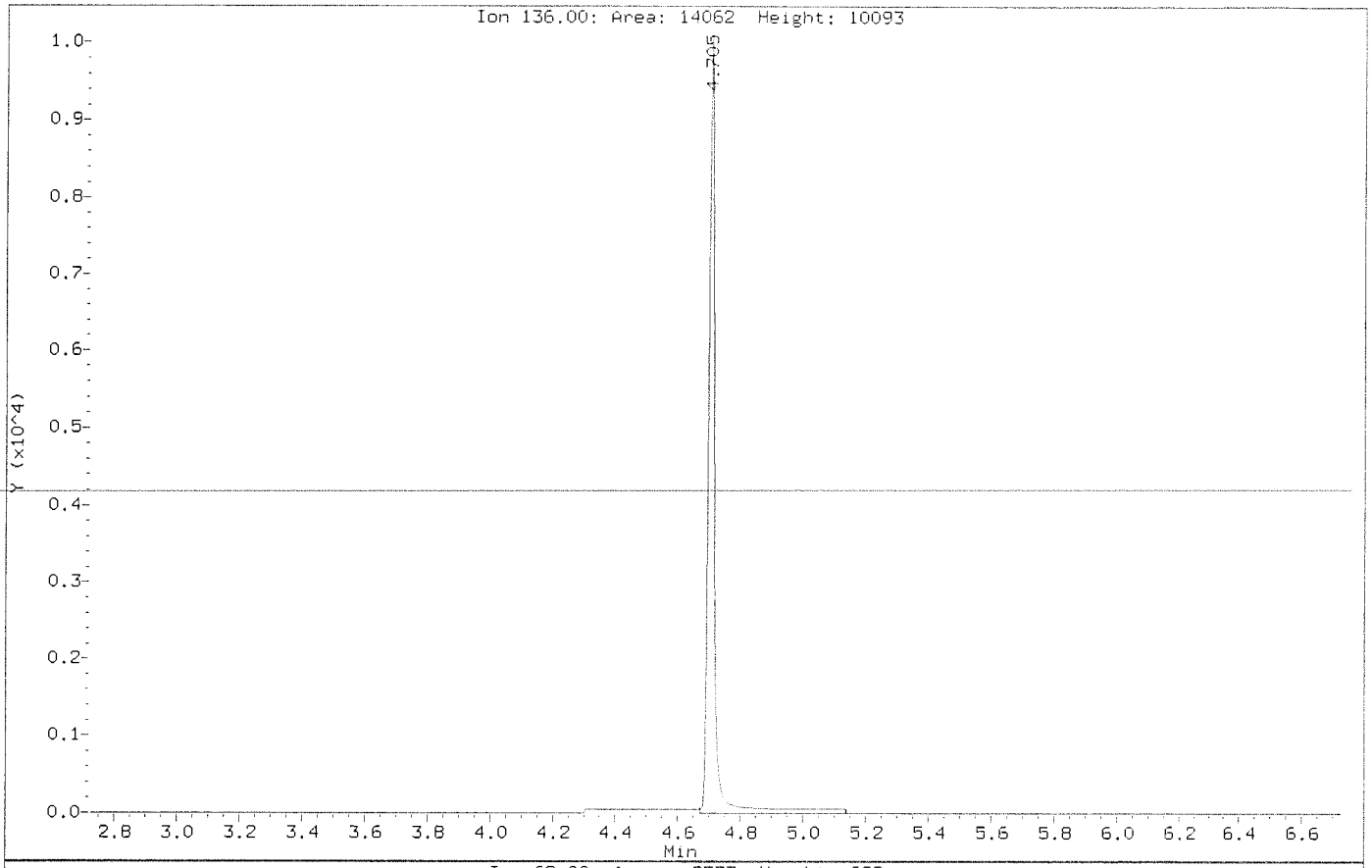


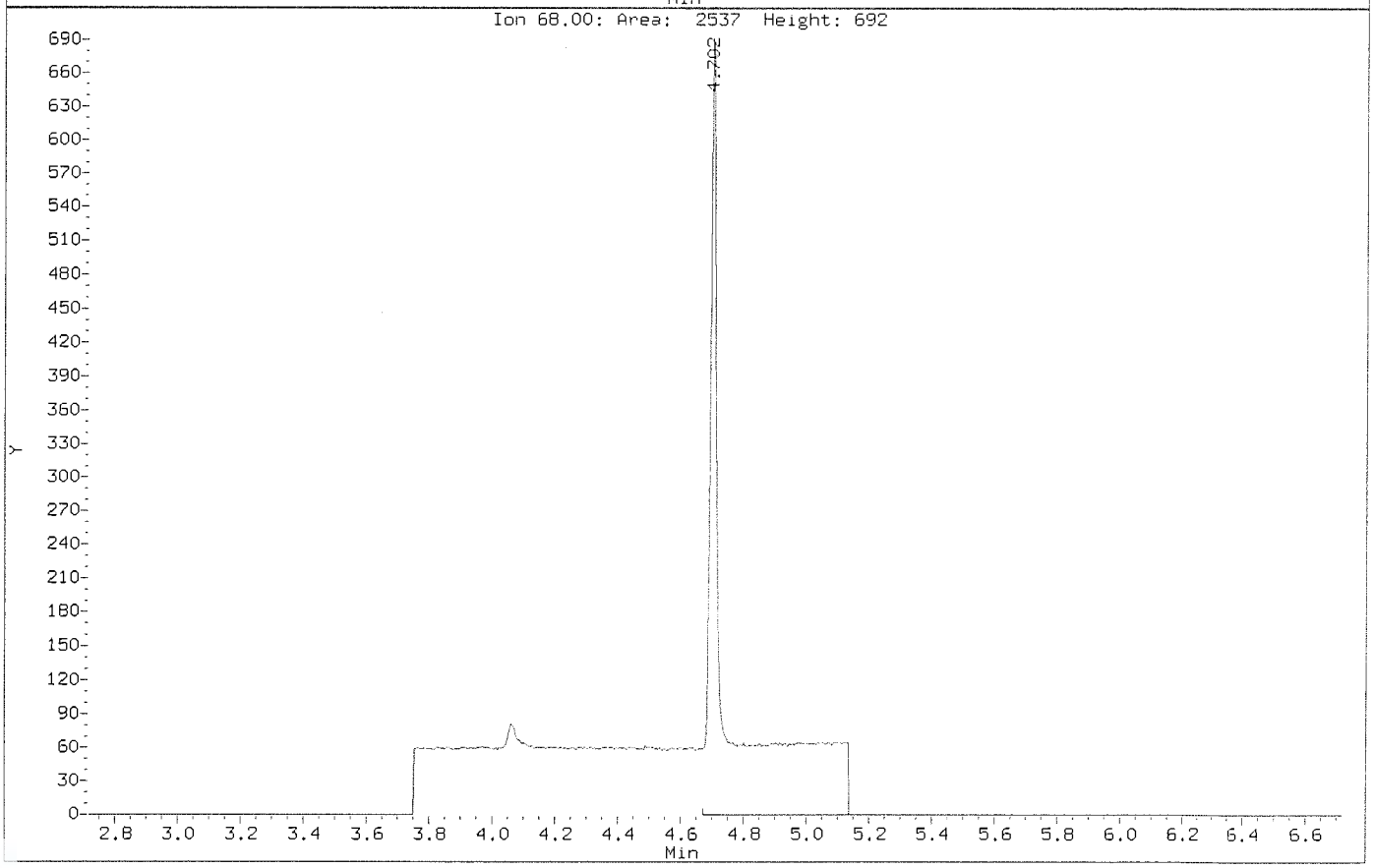




Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\Before\03.D
Injection Date: 23-AUG-2022 10:31
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

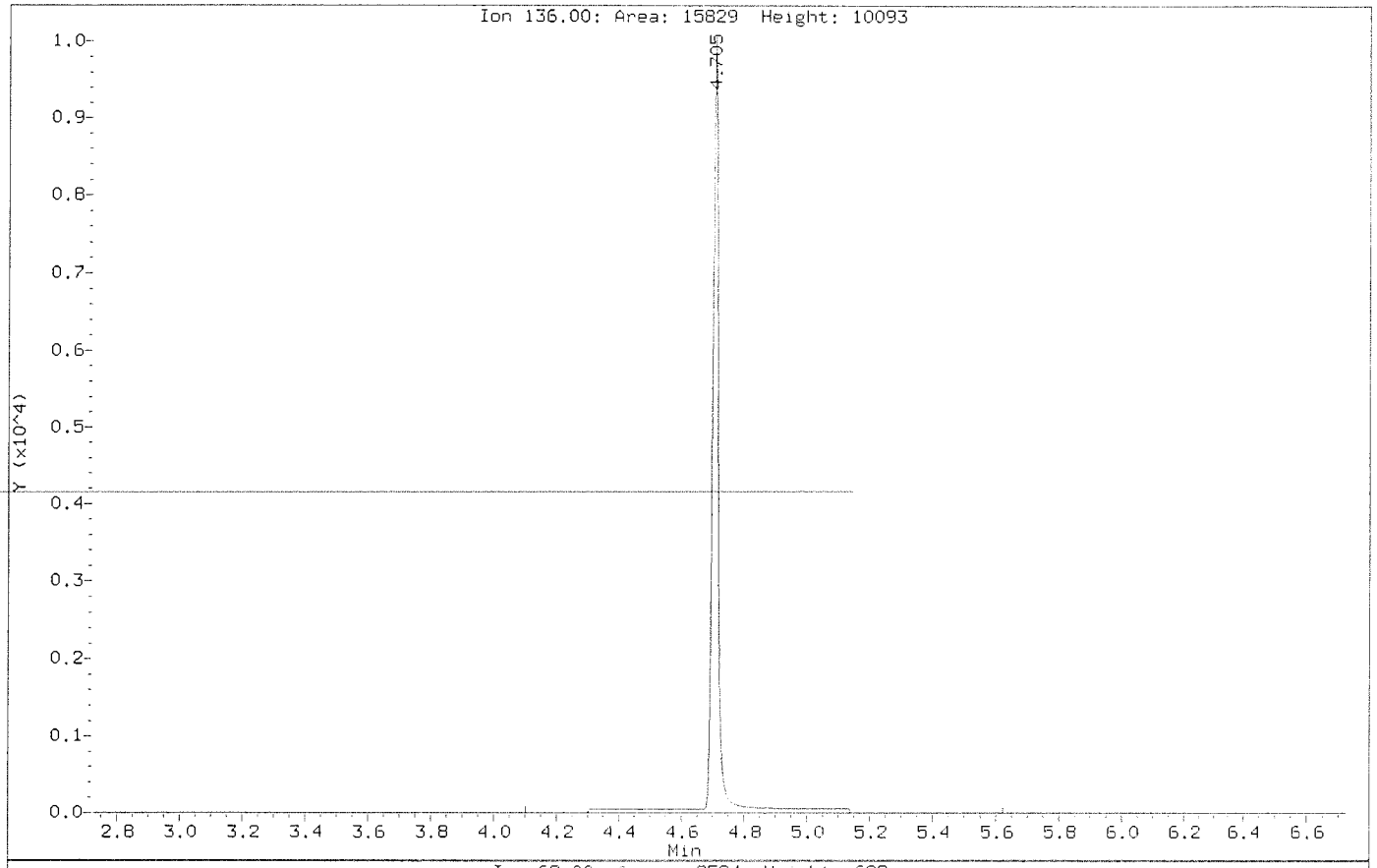
Compound: Naphthalene-d8
CAS Number: 1146-65-2

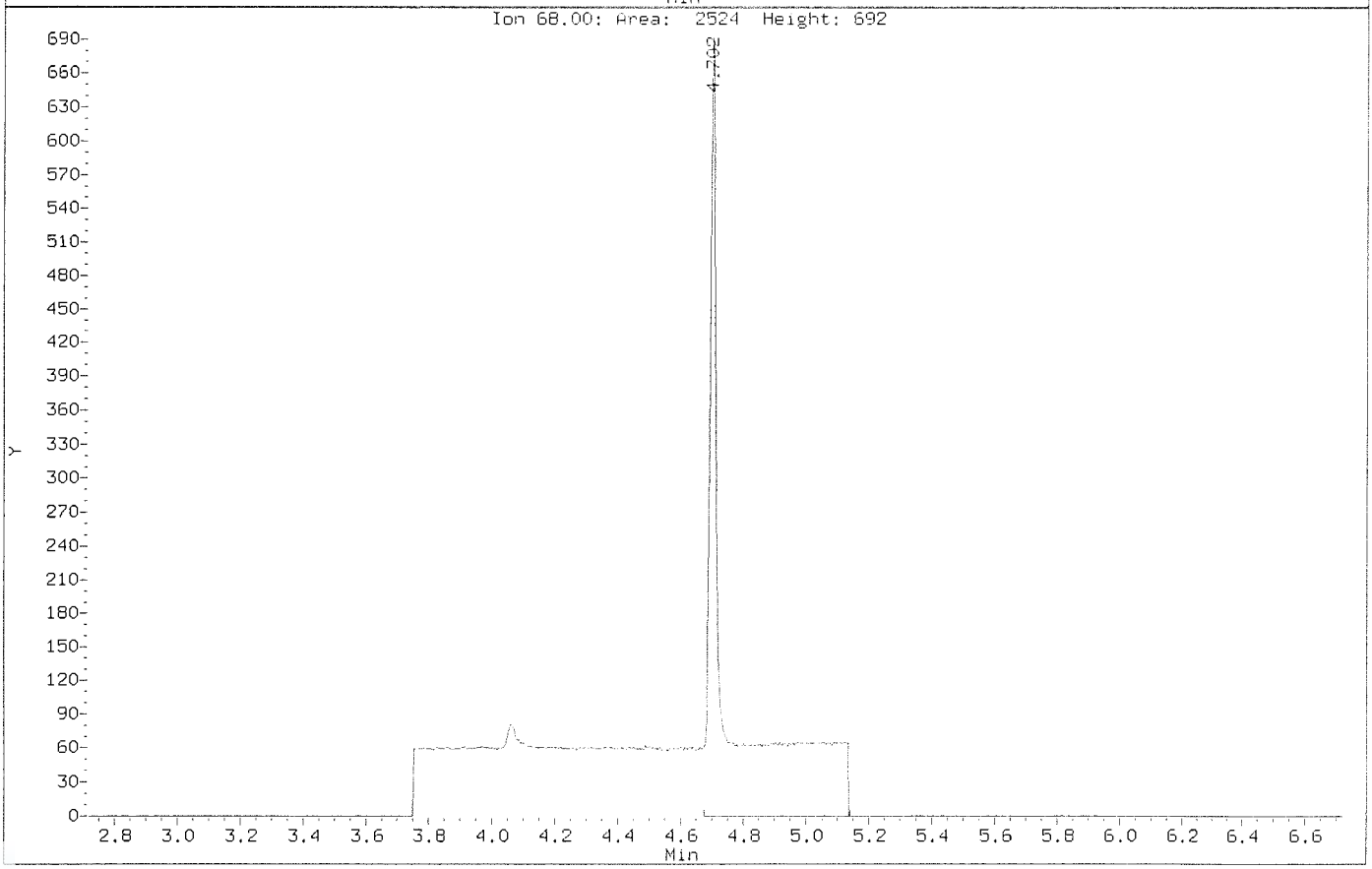




Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\03.D
Injection Date: 23-AUG-2022 10:31
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

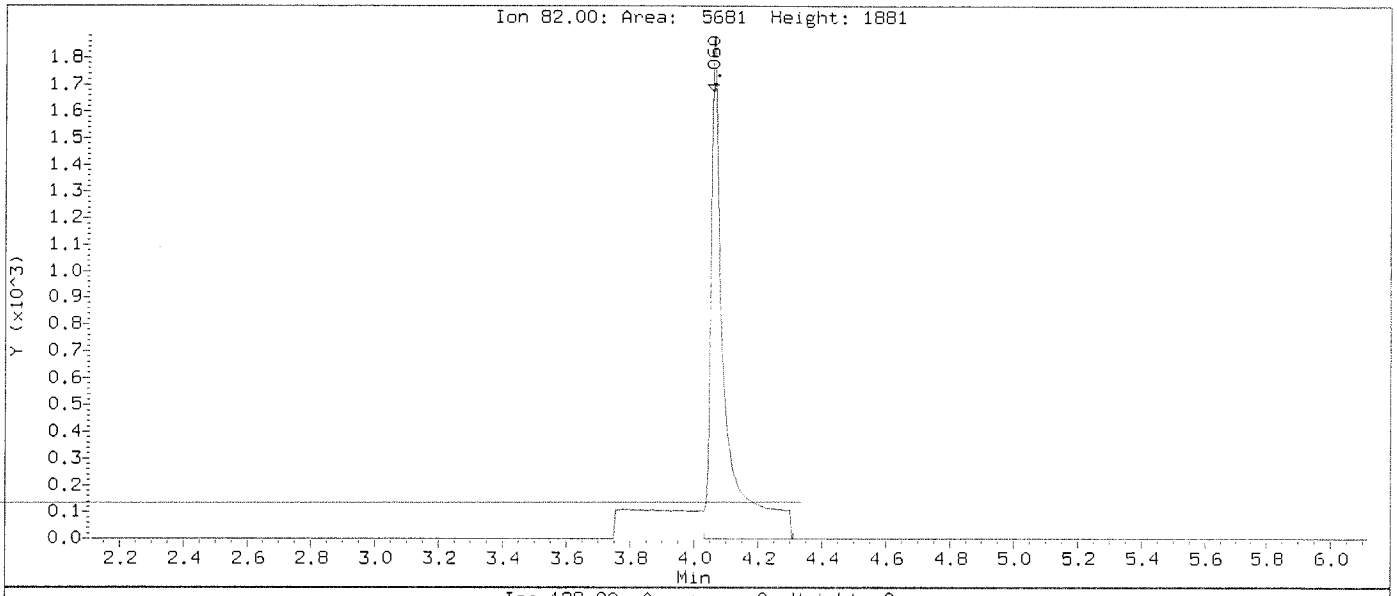
Compound: Naphthalene-d8
CAS Number: 1146-65-2

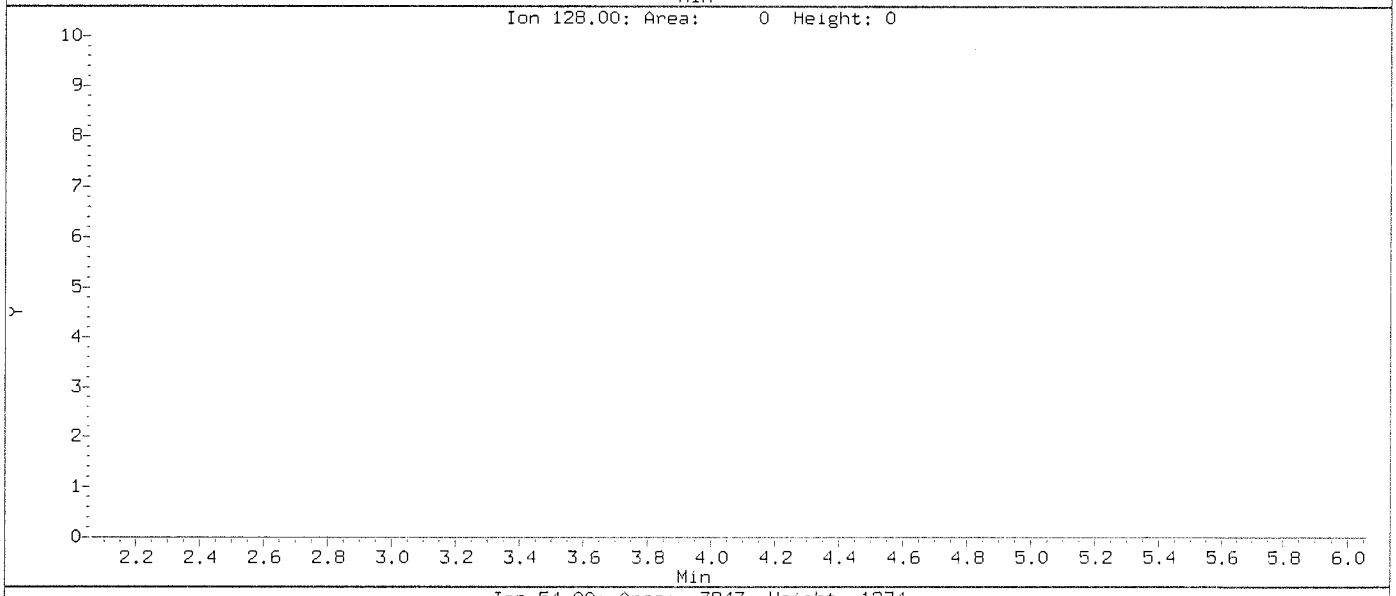


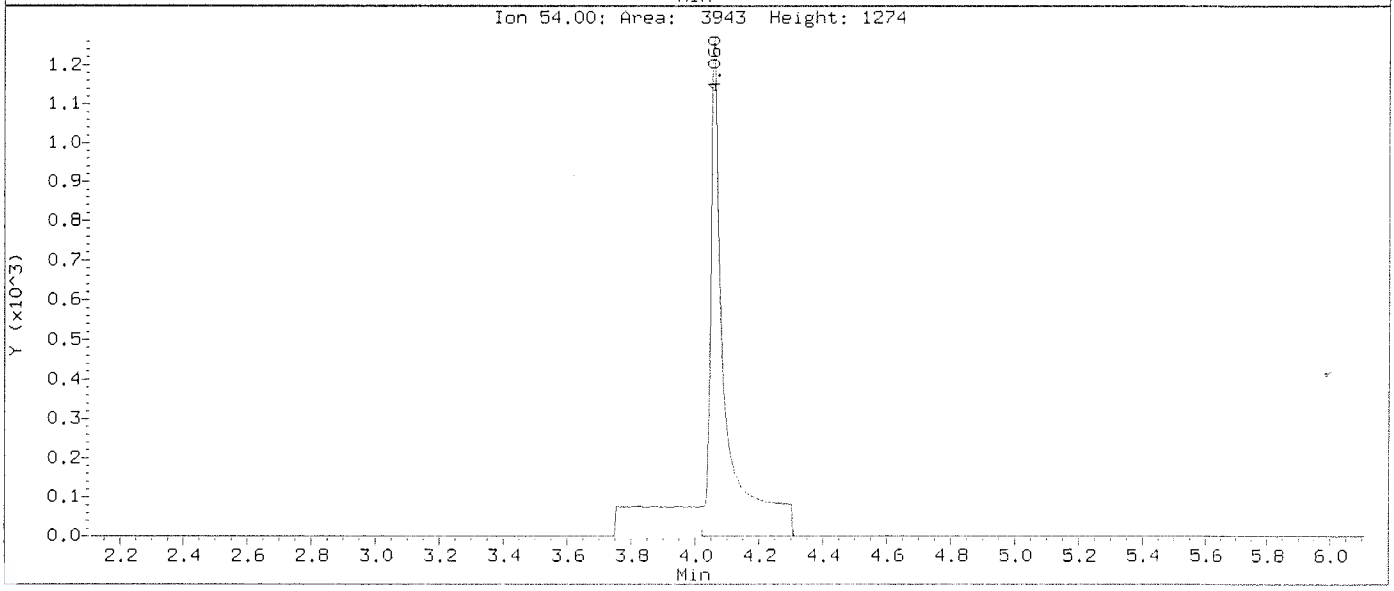


Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\Before\03.D
Injection Date: 23-AUG-2022 10:31
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

Compound: Nitrobenzene-d5
CAS Number: 4165-60-0

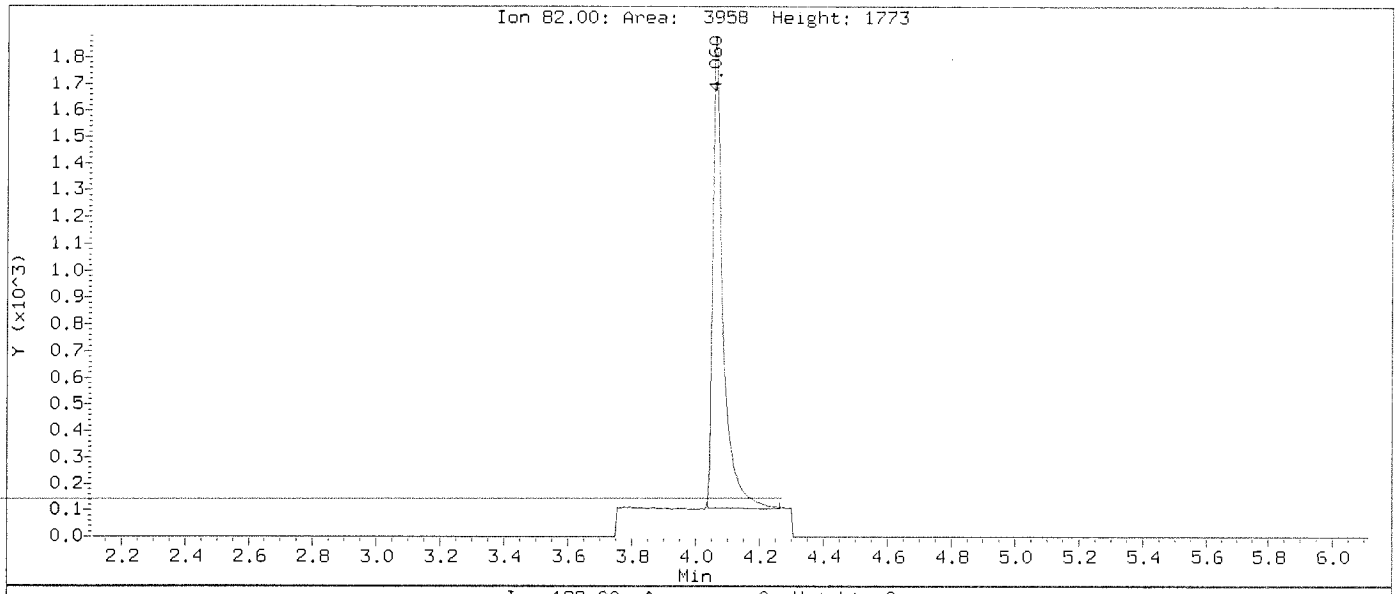


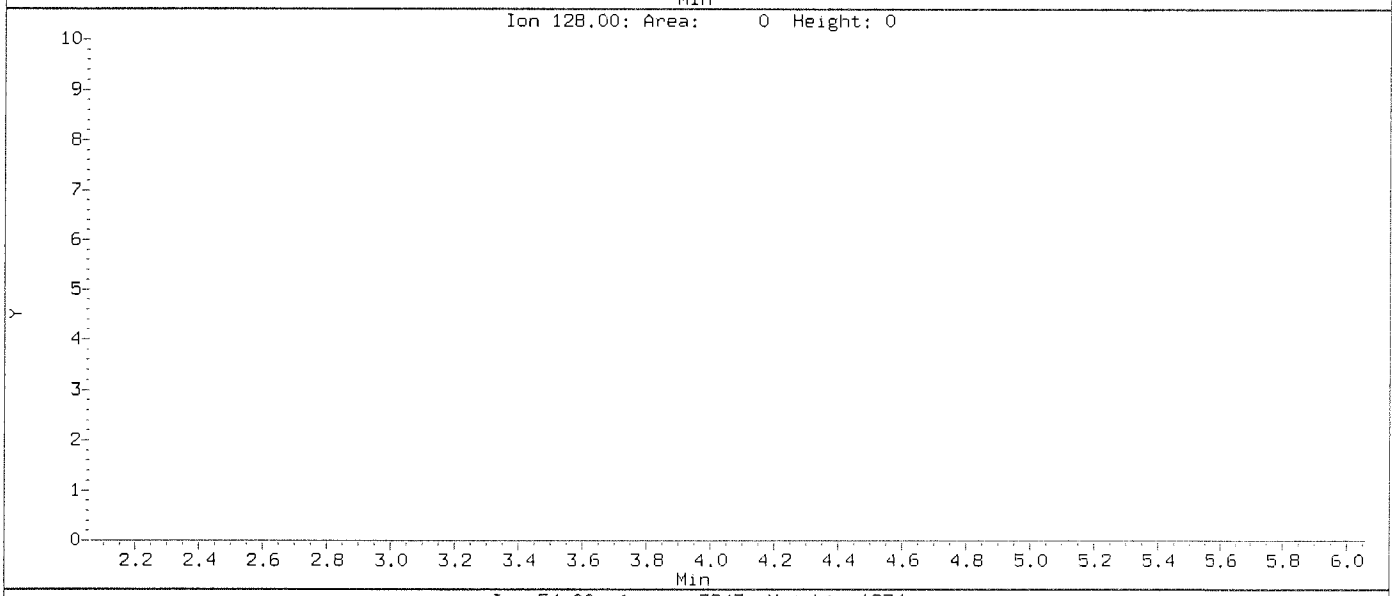


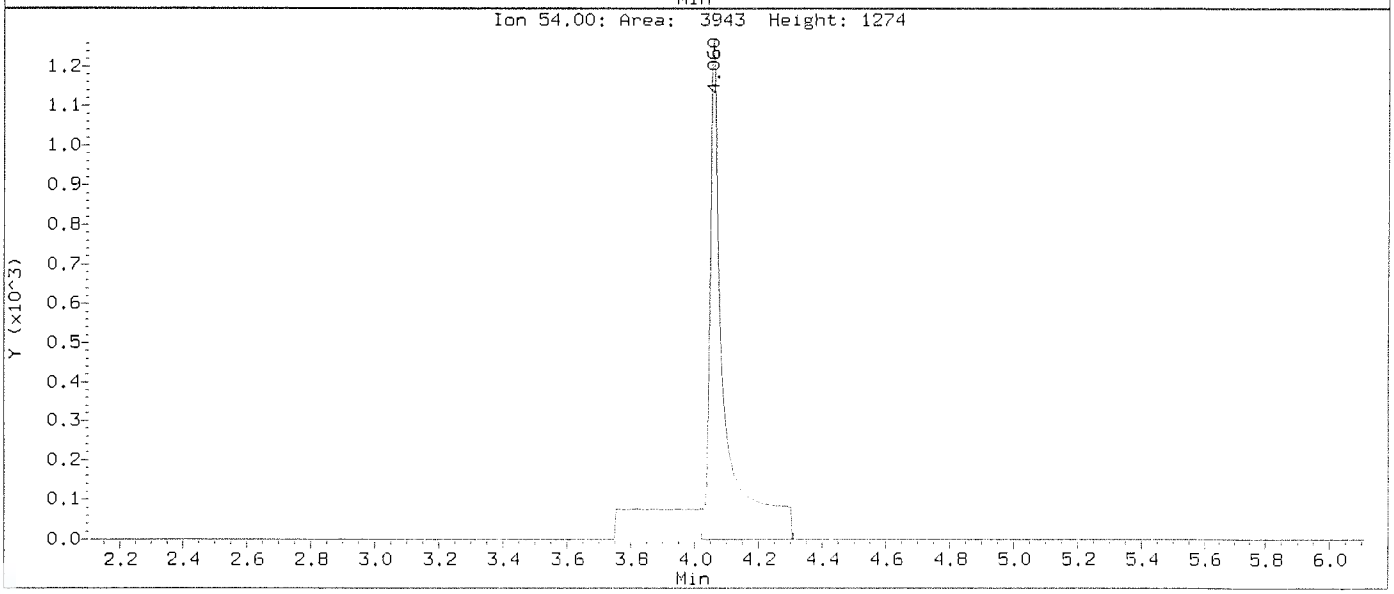


Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\03.D
Injection Date: 23-AUG-2022 10:31
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

Compound: Nitrobenzene-d5
CAS Number: 4165-60-0

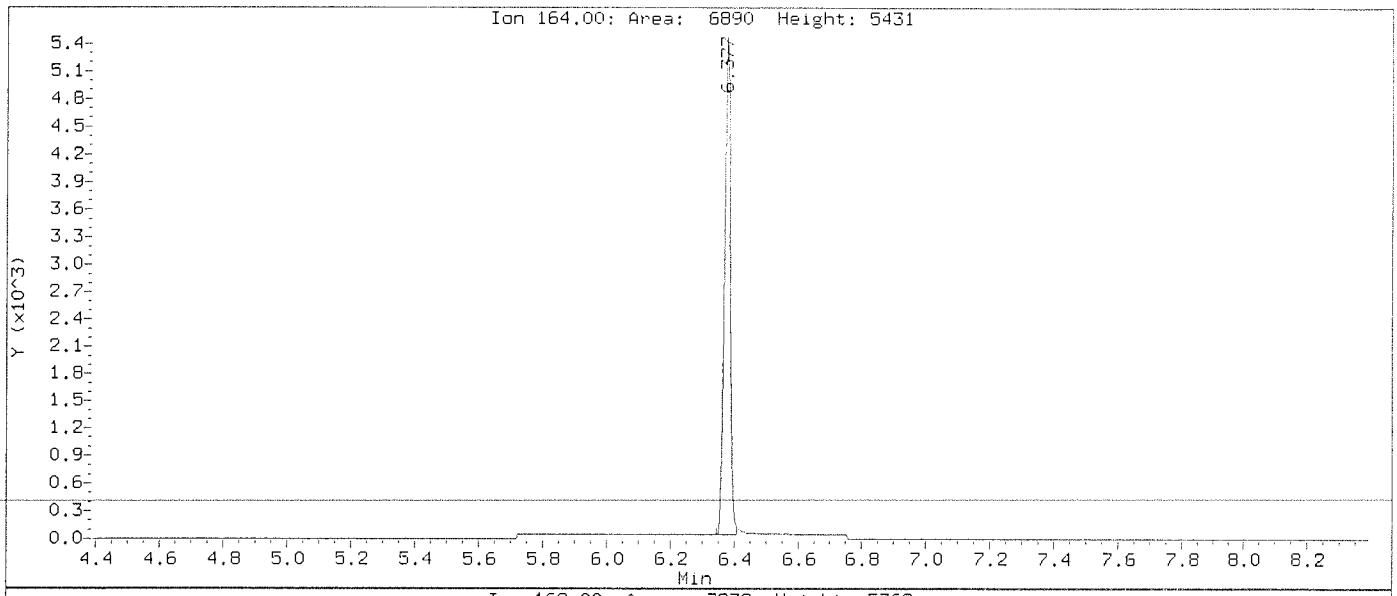


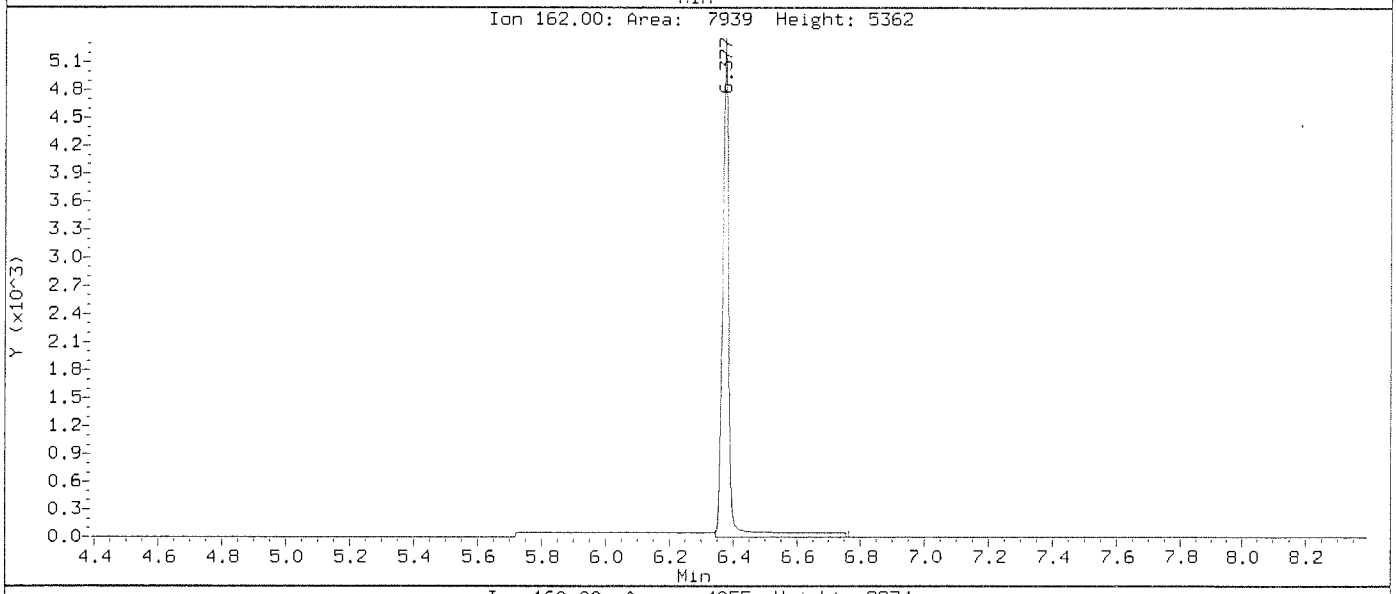


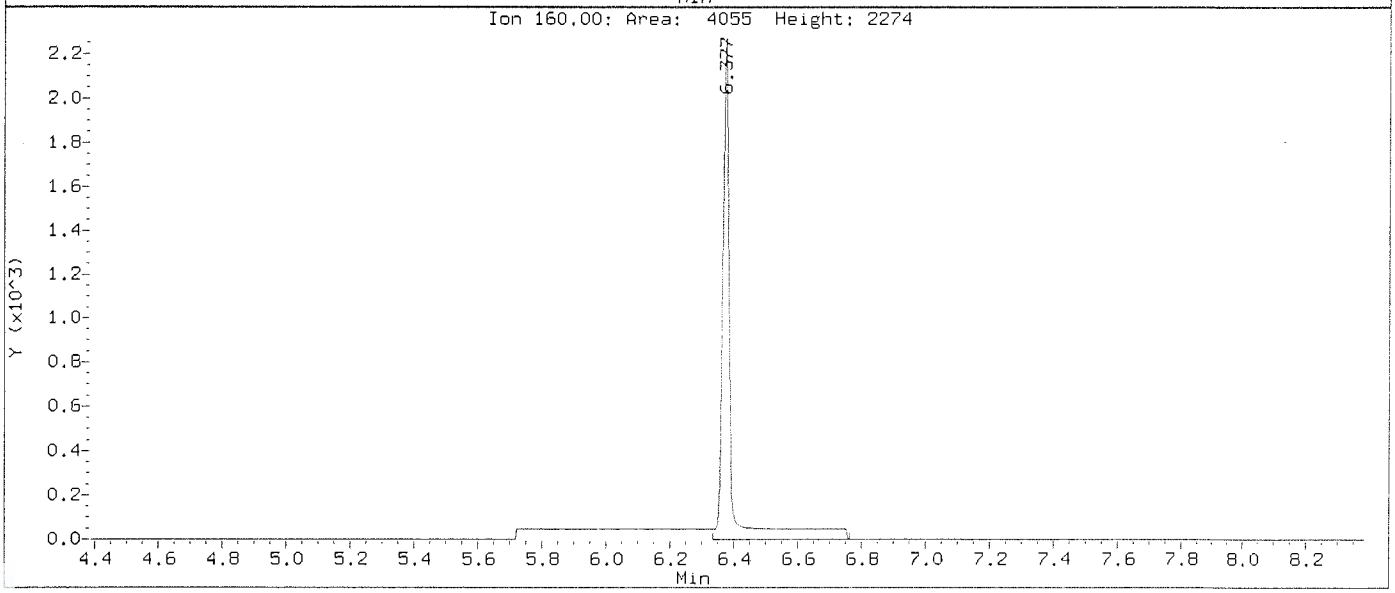


Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\Before\03.D
Injection Date: 23-AUG-2022 10:31
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

Compound: Acenaphthene-d10
CAS Number: 15067-26-2

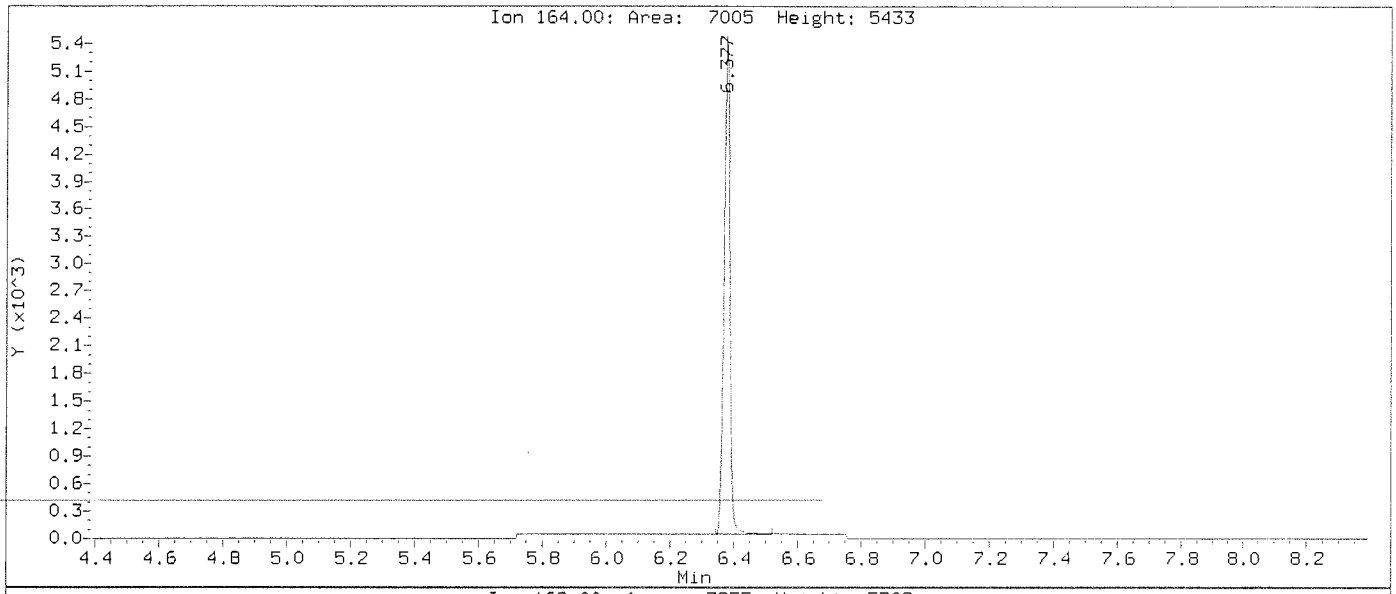


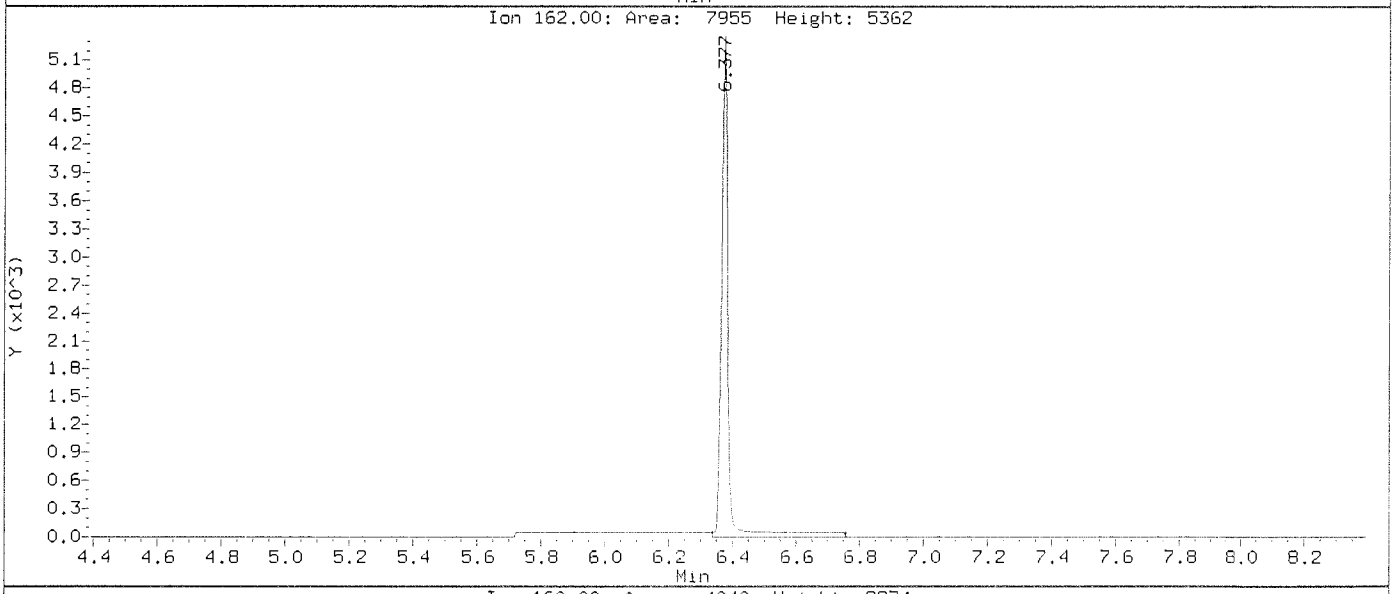


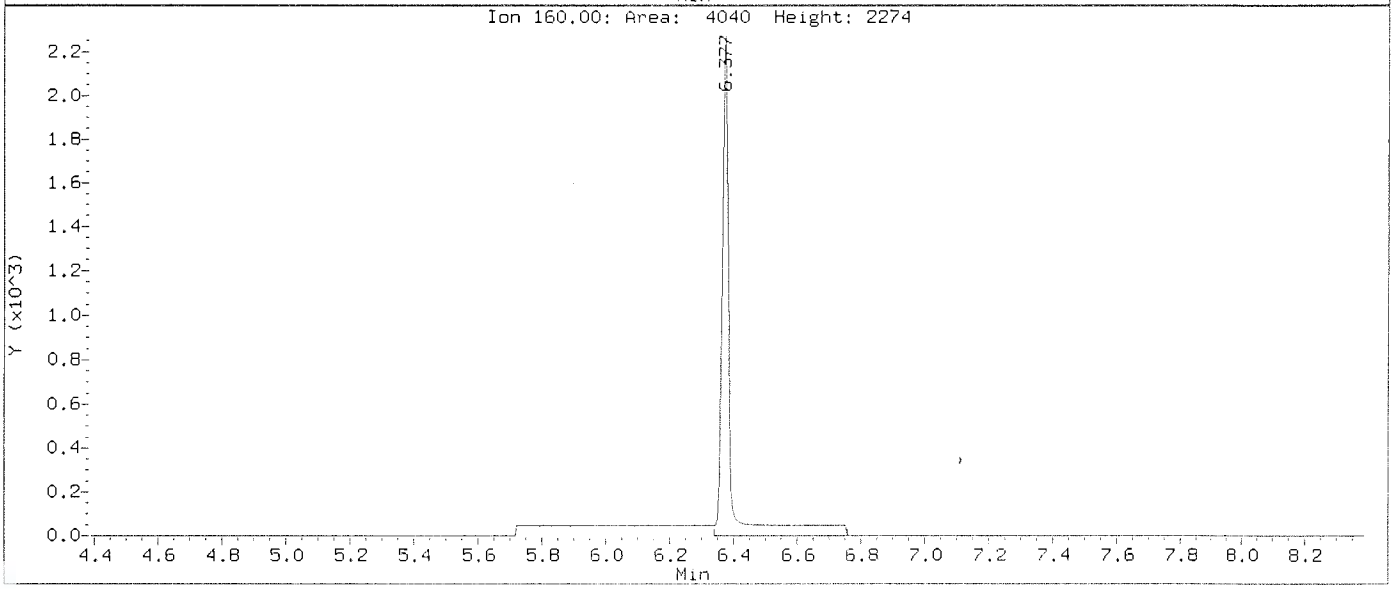


Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\03.D
Injection Date: 23-AUG-2022 10:31
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

Compound: Acenaphthene-d10
CAS Number: 15067-26-2

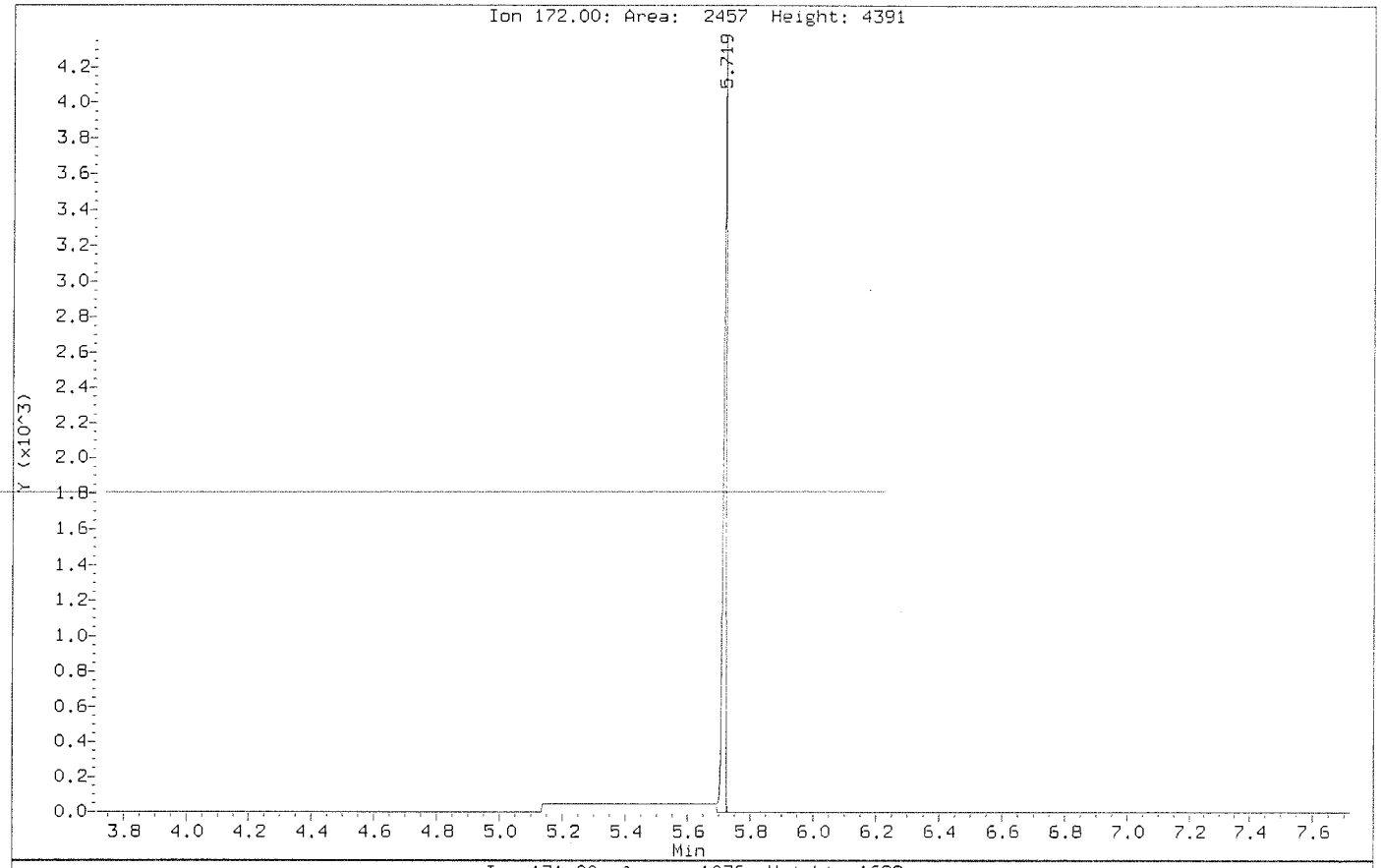


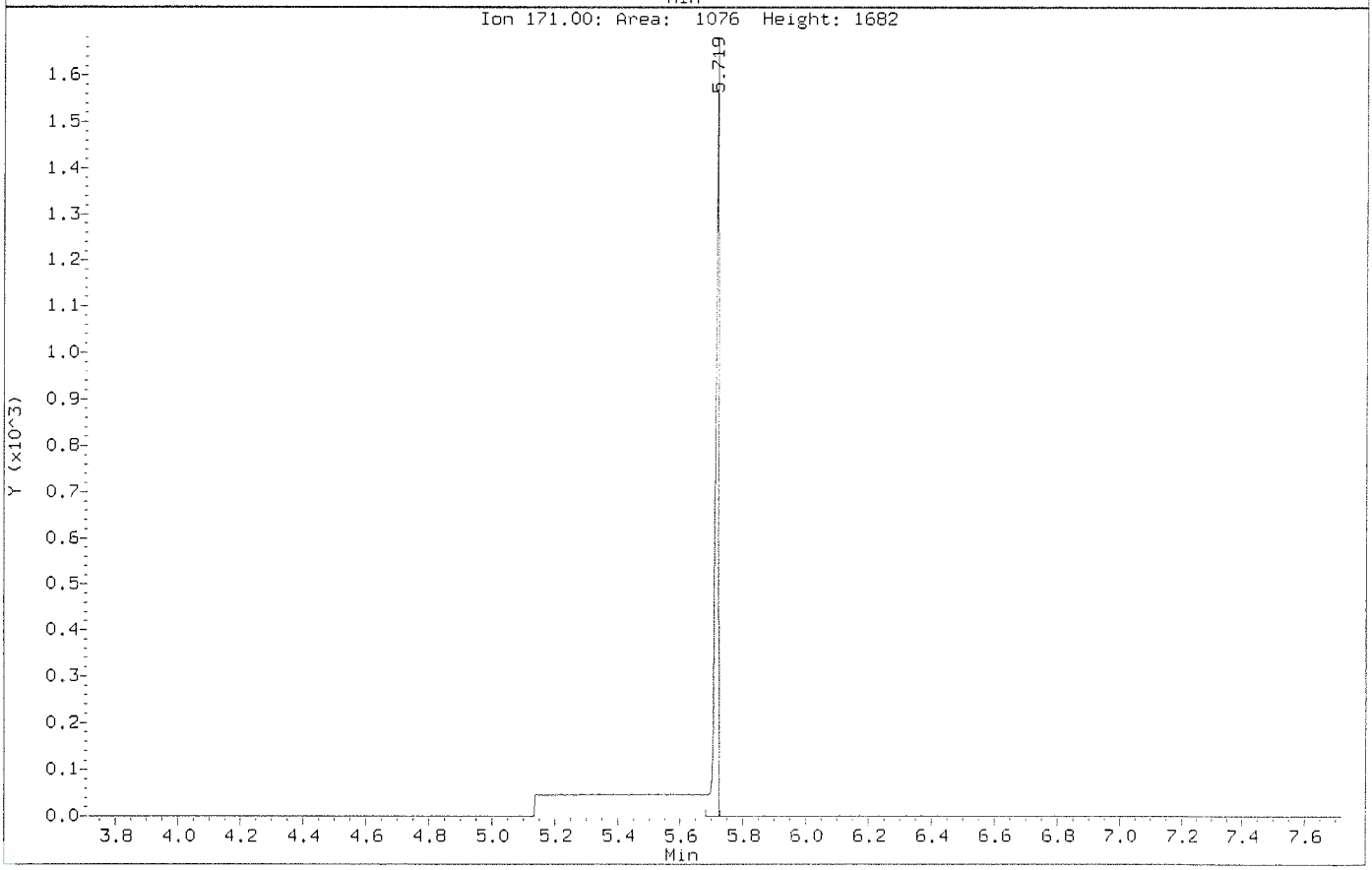




Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\Before\03.D
Injection Date: 23-AUG-2022 10:31
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

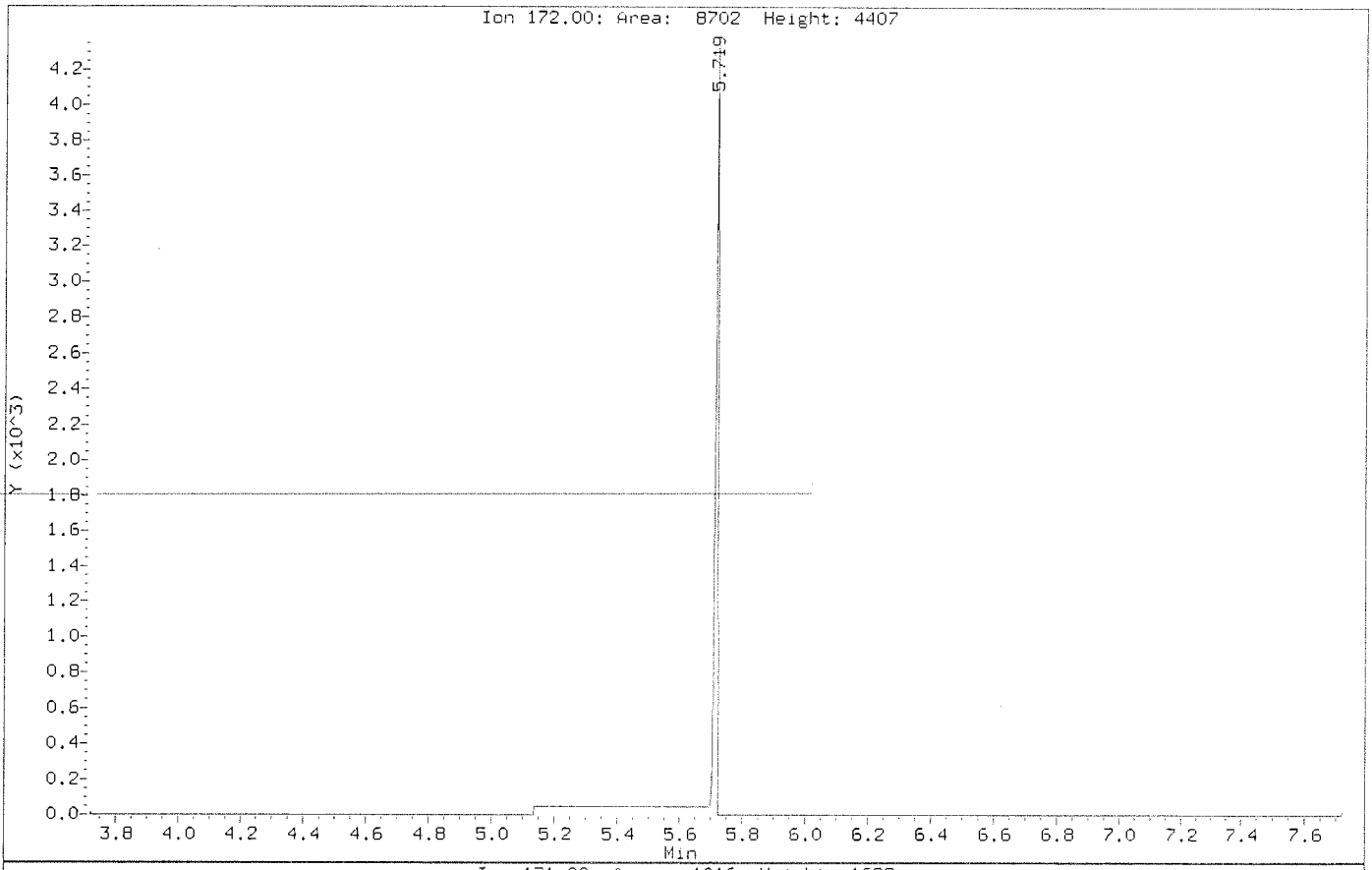
Compound: 2-Fluorobiphenyl
CAS Number: 321-60-8

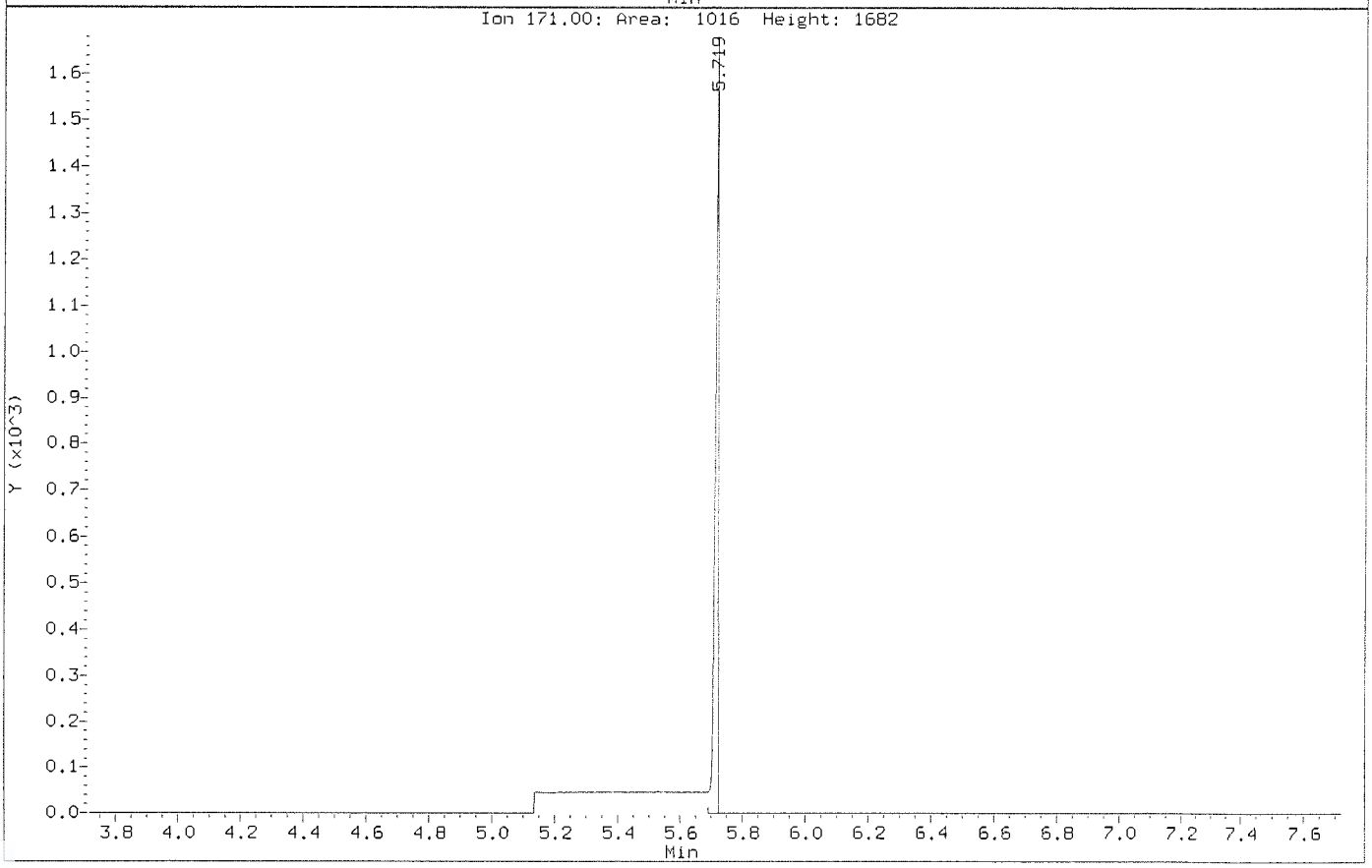




Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\03.D
Injection Date: 23-AUG-2022 10:31
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

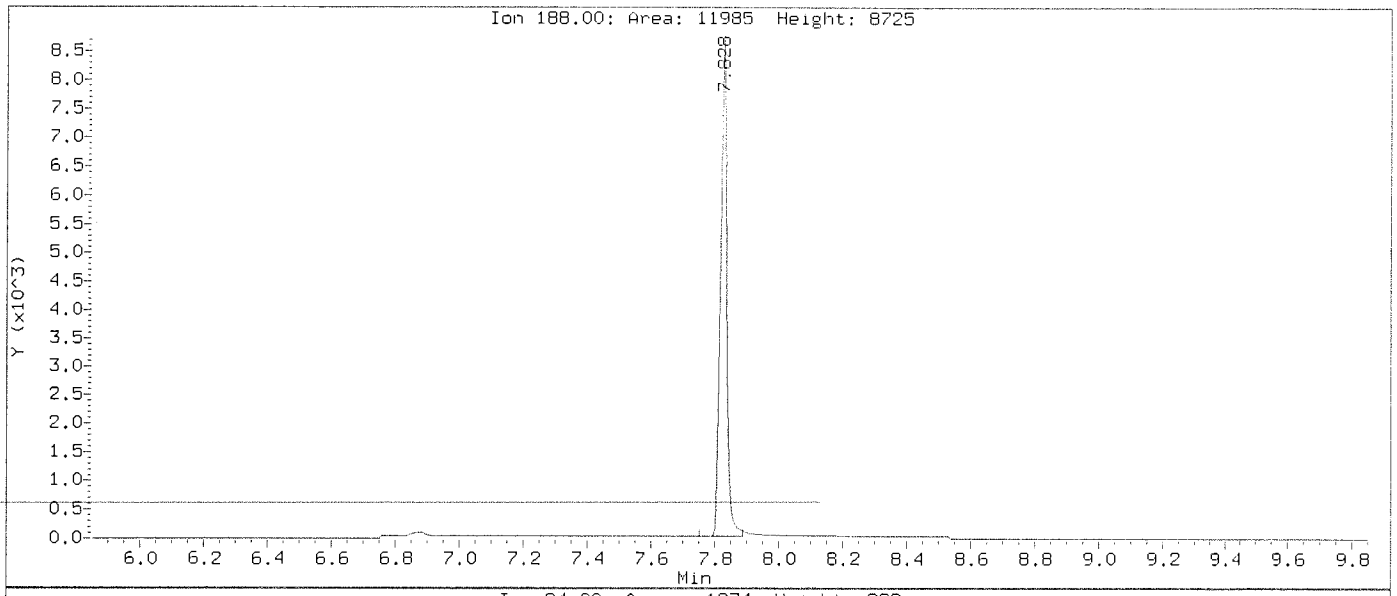
Compound: 2-Fluorobiphenyl
CAS Number: 321-60-8

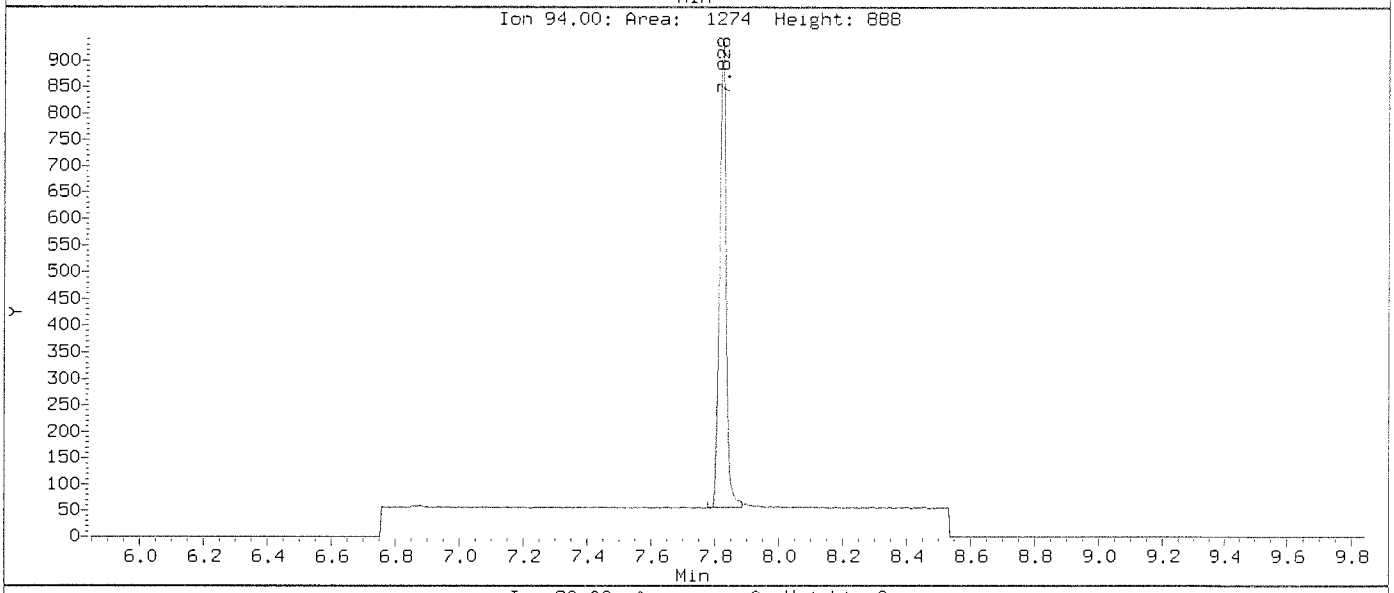


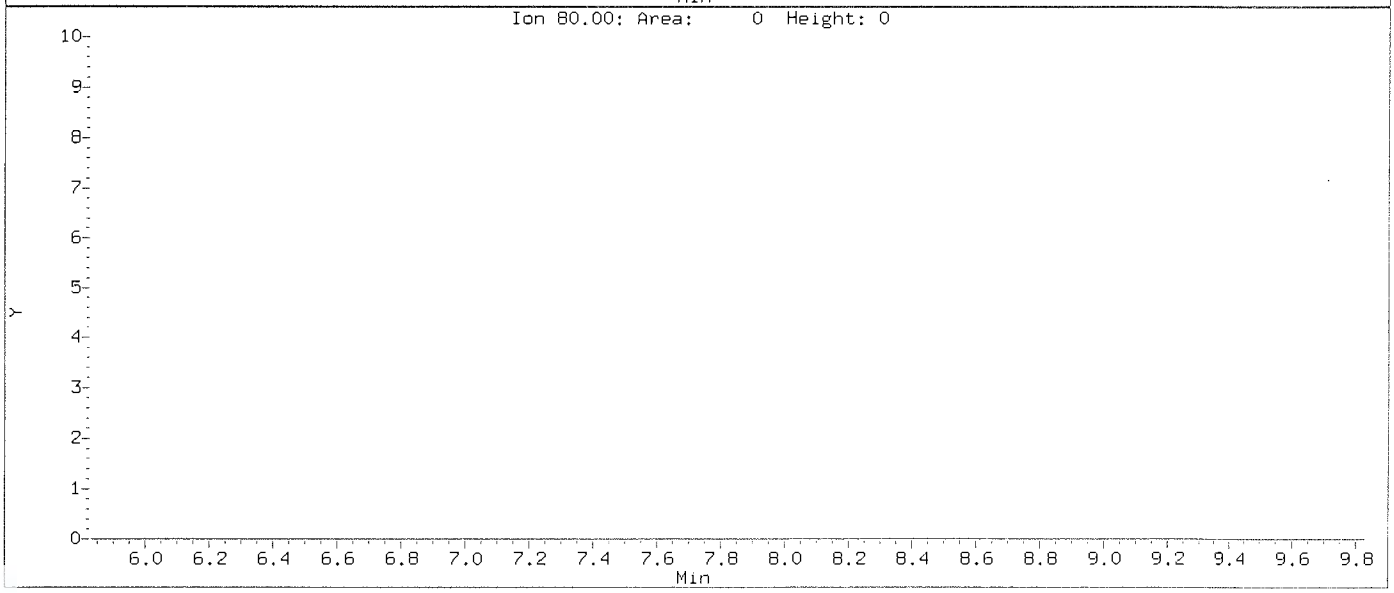


Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\Before\03.D
Injection Date: 23-AUG-2022 10:31
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

Compound: Phenanthrene-d10
CAS Number: 1517-22-2

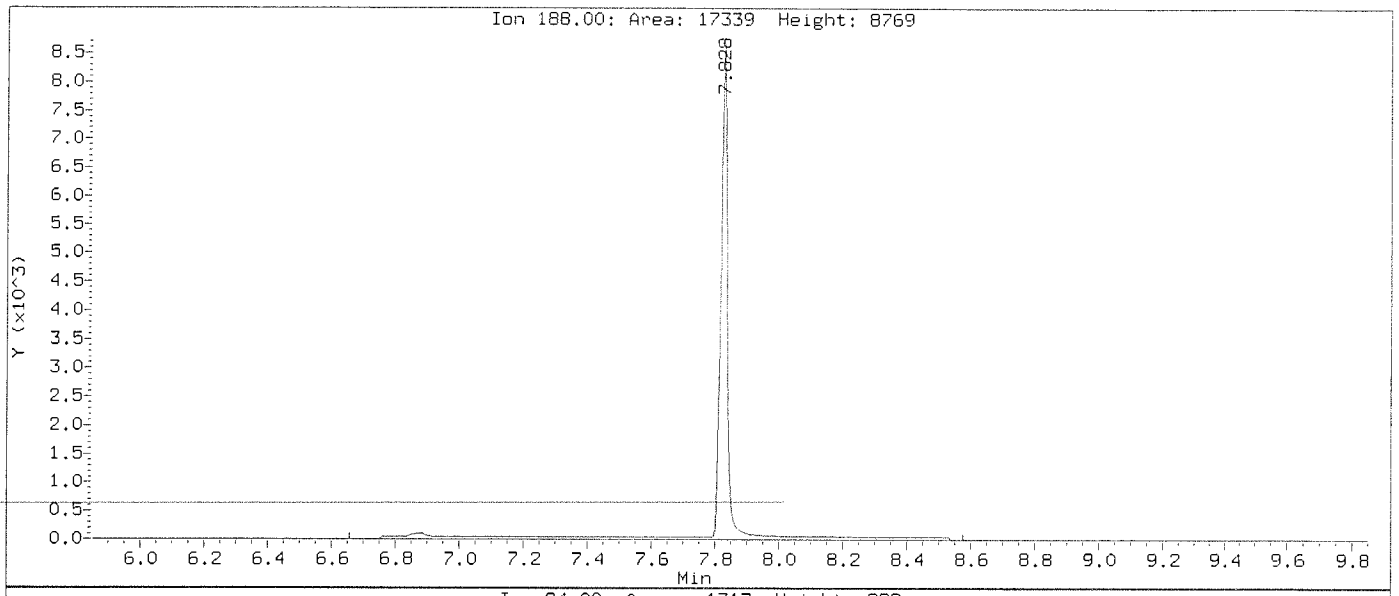


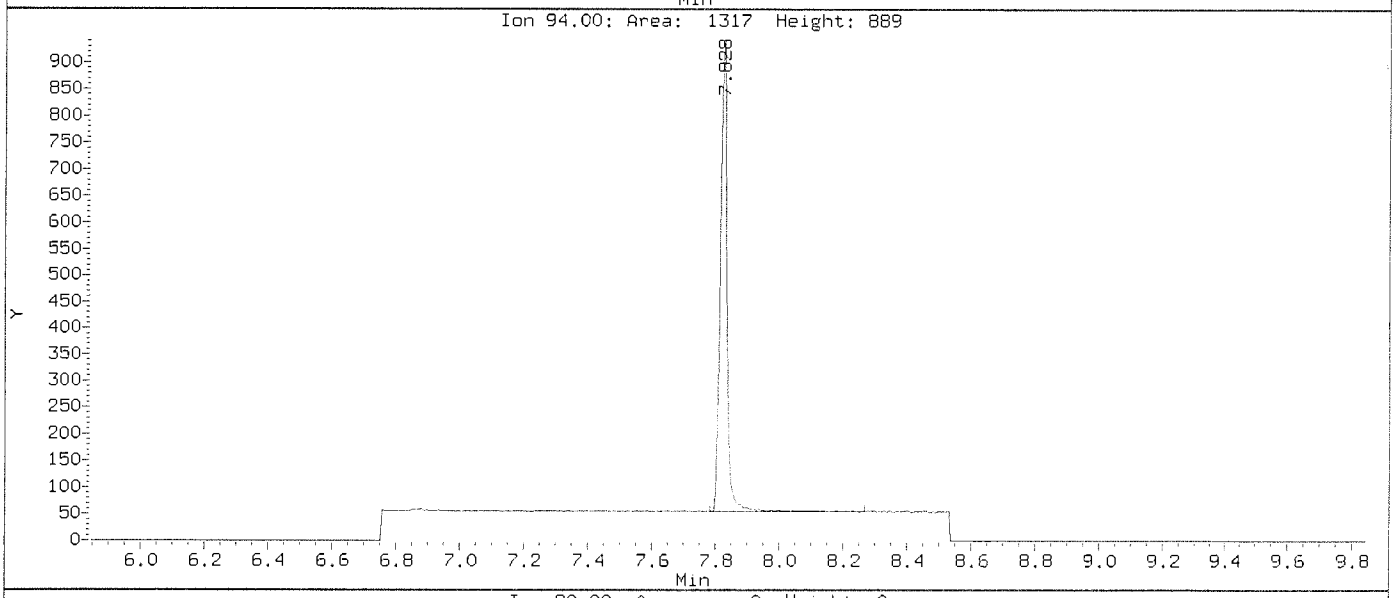


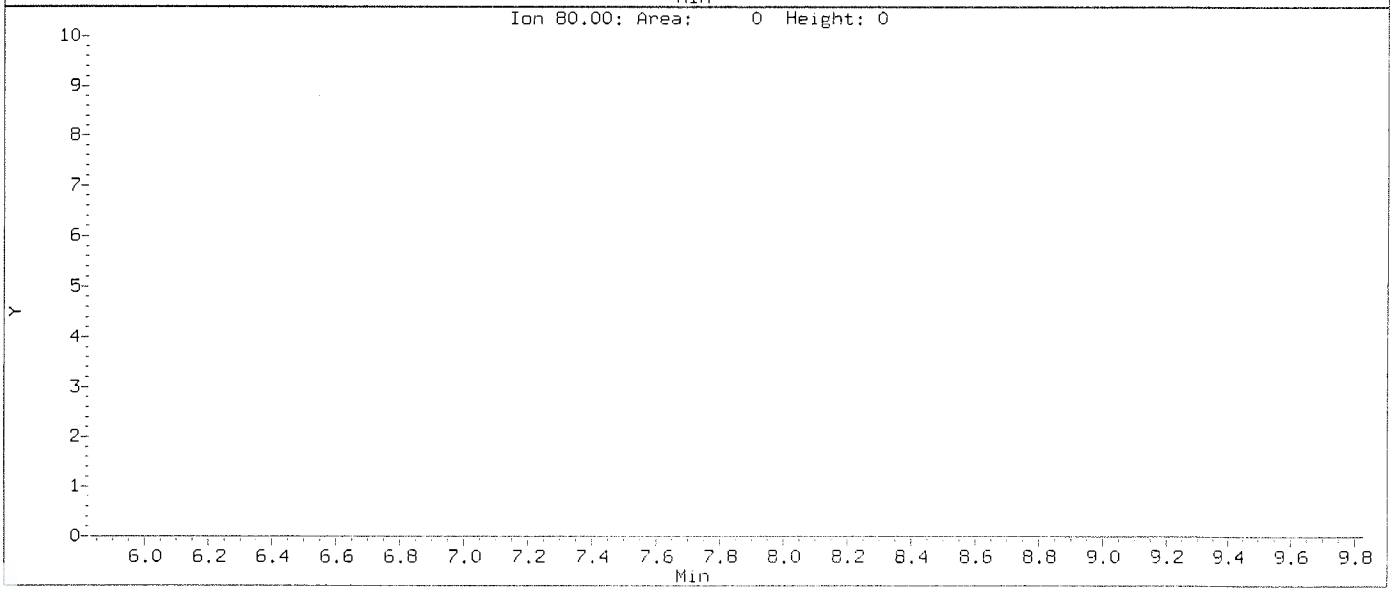


Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\03.D
Injection Date: 23-AUG-2022 10:31
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

Compound: Phenanthrene-d10
CAS Number: 1517-22-2

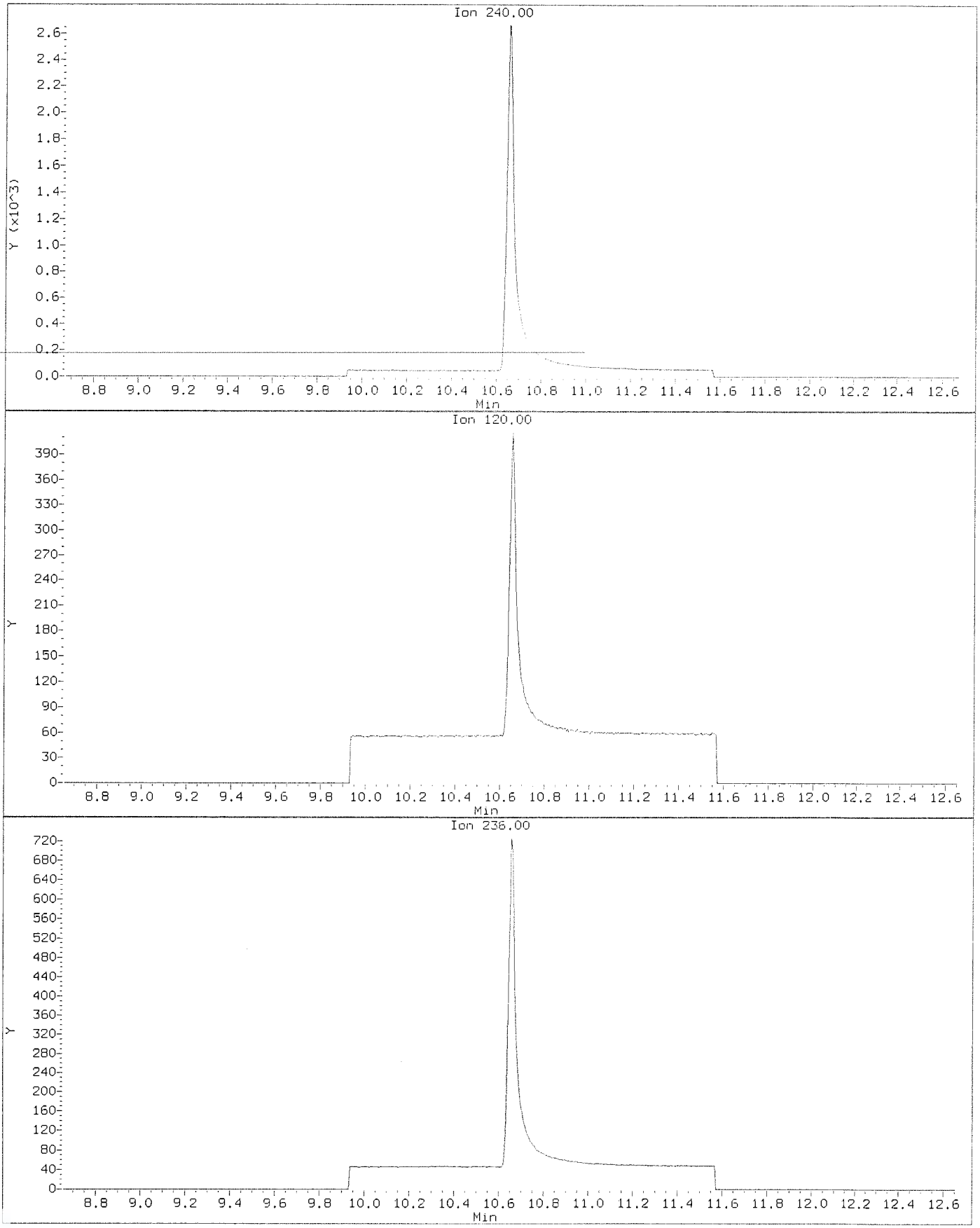






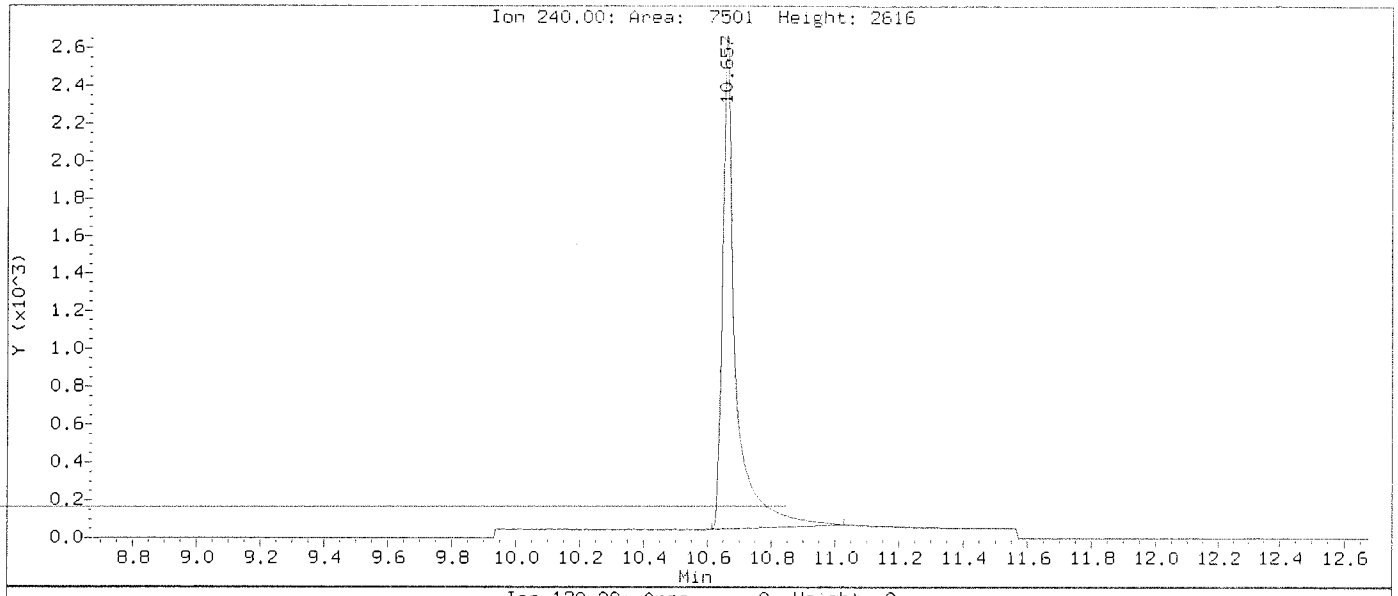
Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\Before\03.D
Injection Date: 23-AUG-2022 10:31
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

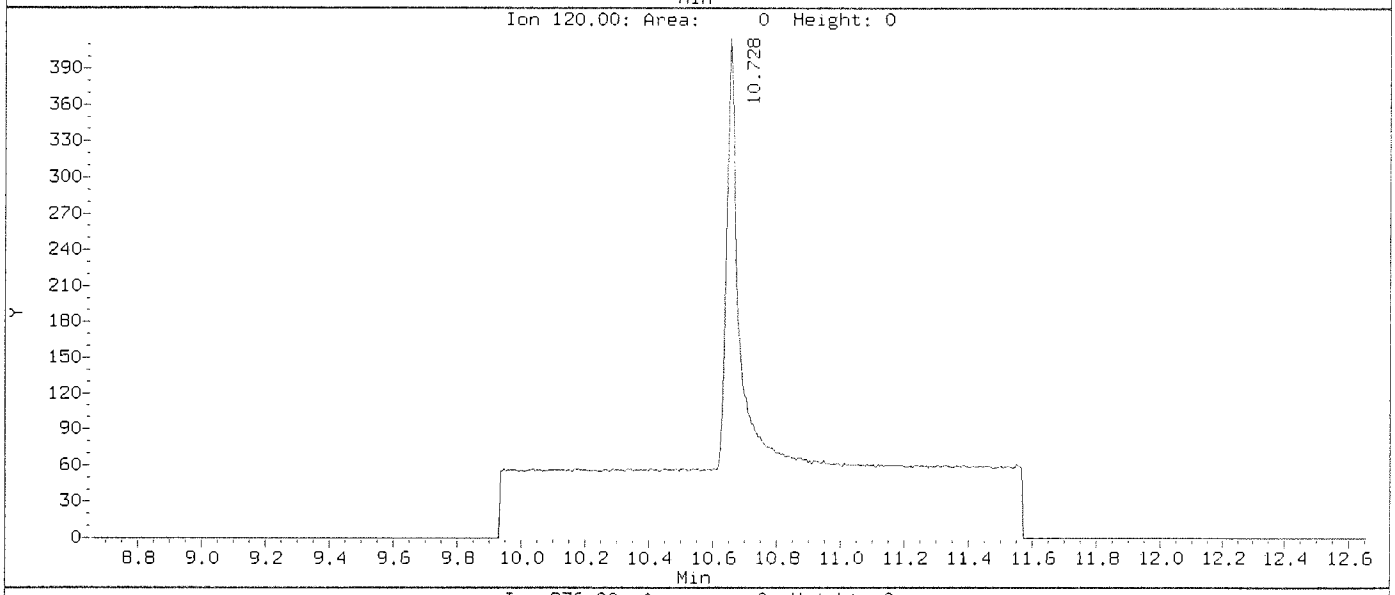
Compound: Chrysene-d12
CAS Number: 1719-03-5

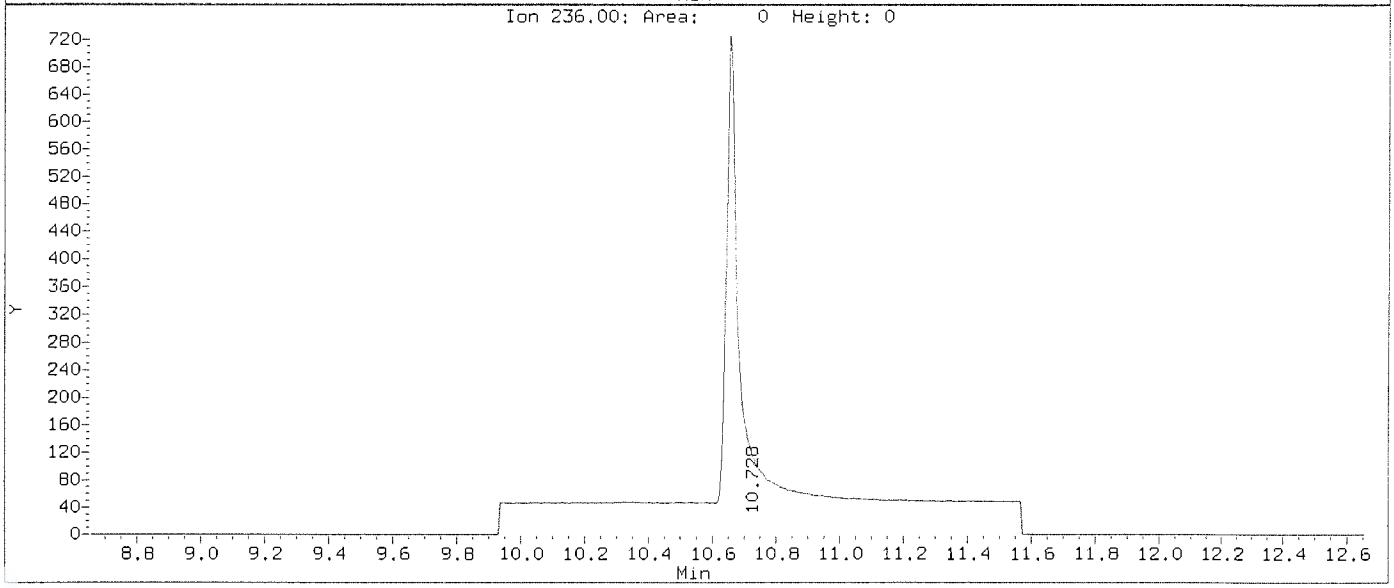


Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\03.D
Injection Date: 23-AUG-2022 10:31
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

Compound: Chrysene-d12
CAS Number: 1719-03-5

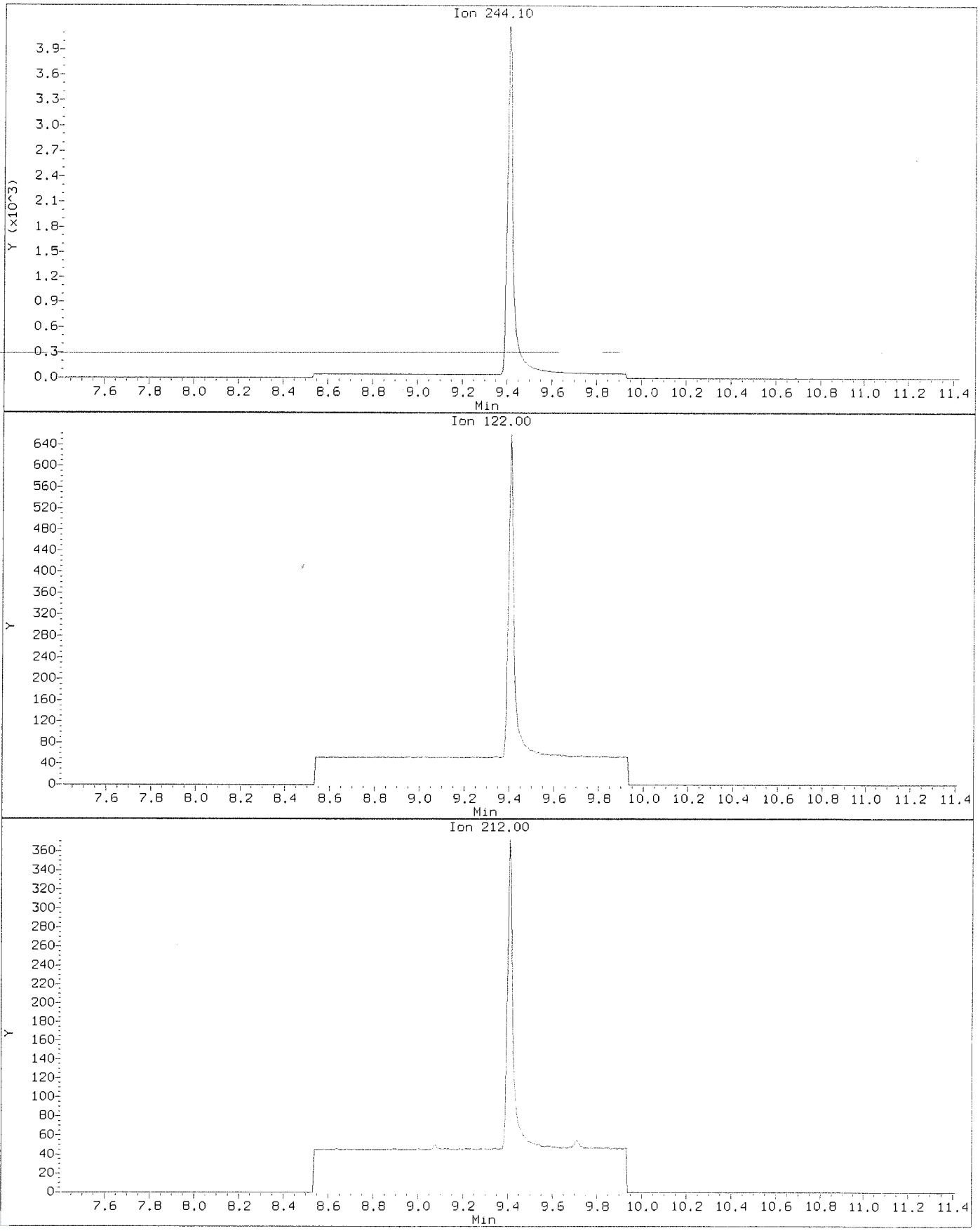






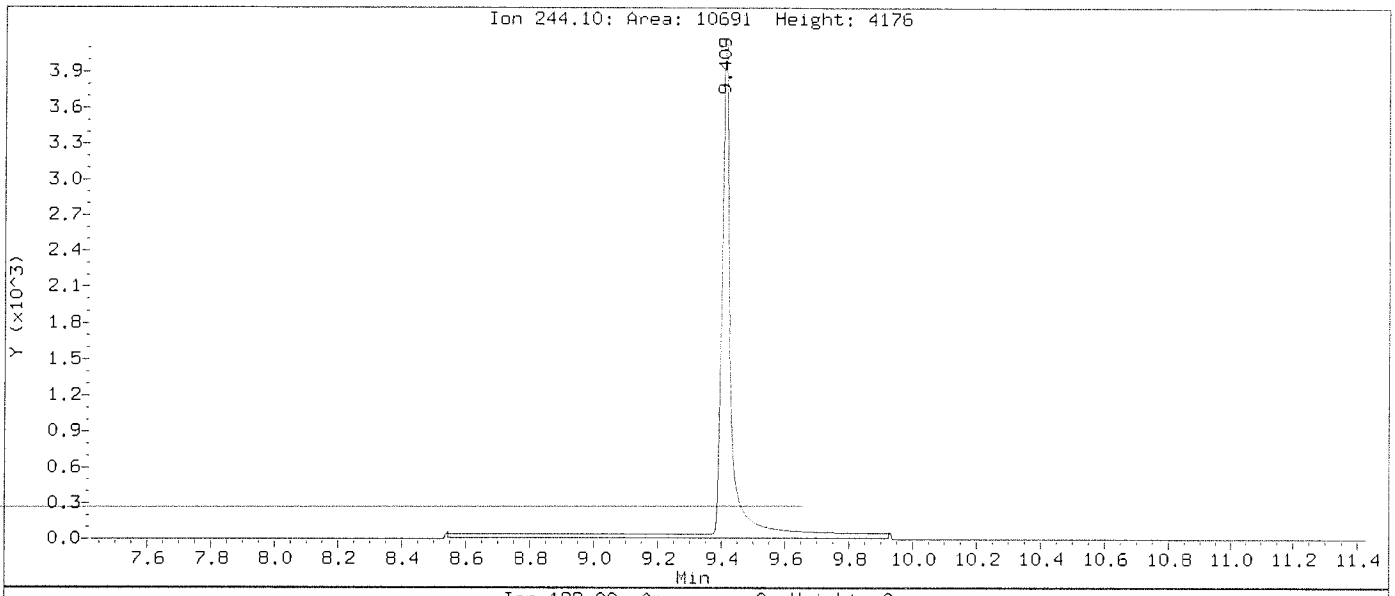
Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\Before\03.D
Injection Date: 23-AUG-2022 10:31
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

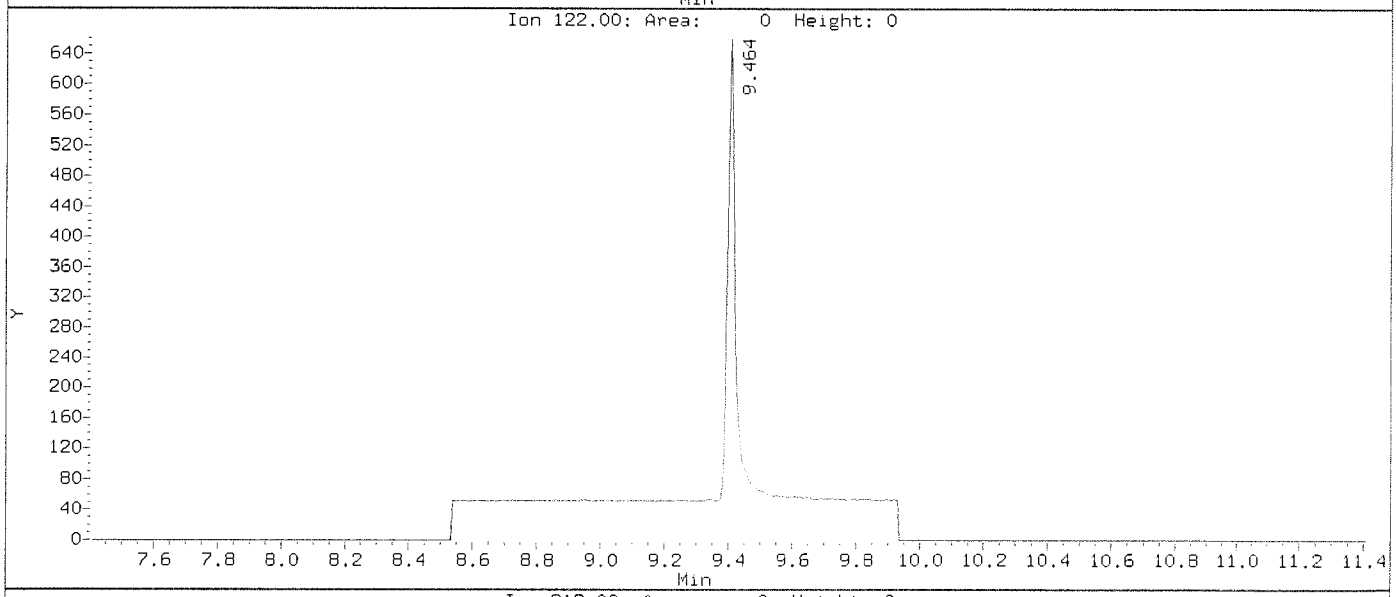
Compound: 4-Terphenyl-d14
CAS Number: 1718-51-0

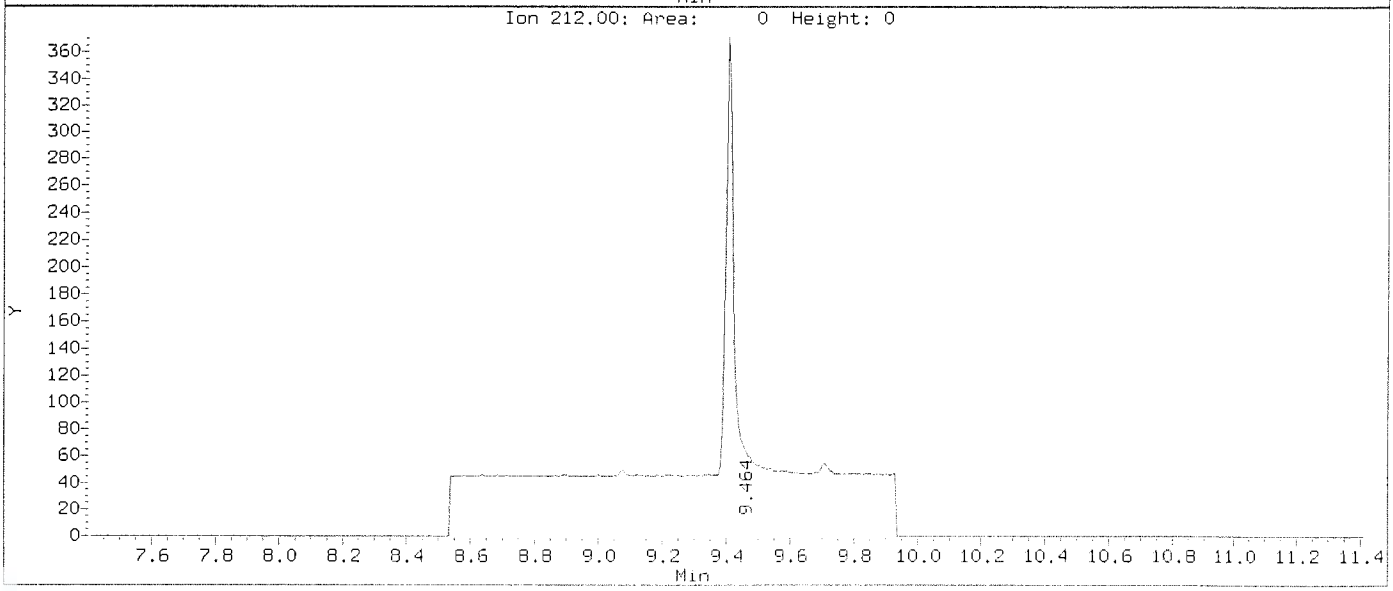


Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\03.D
Injection Date: 23-AUG-2022 10:31
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

Compound: 4-Terphenyl-d14
CAS Number: 1718-51-0

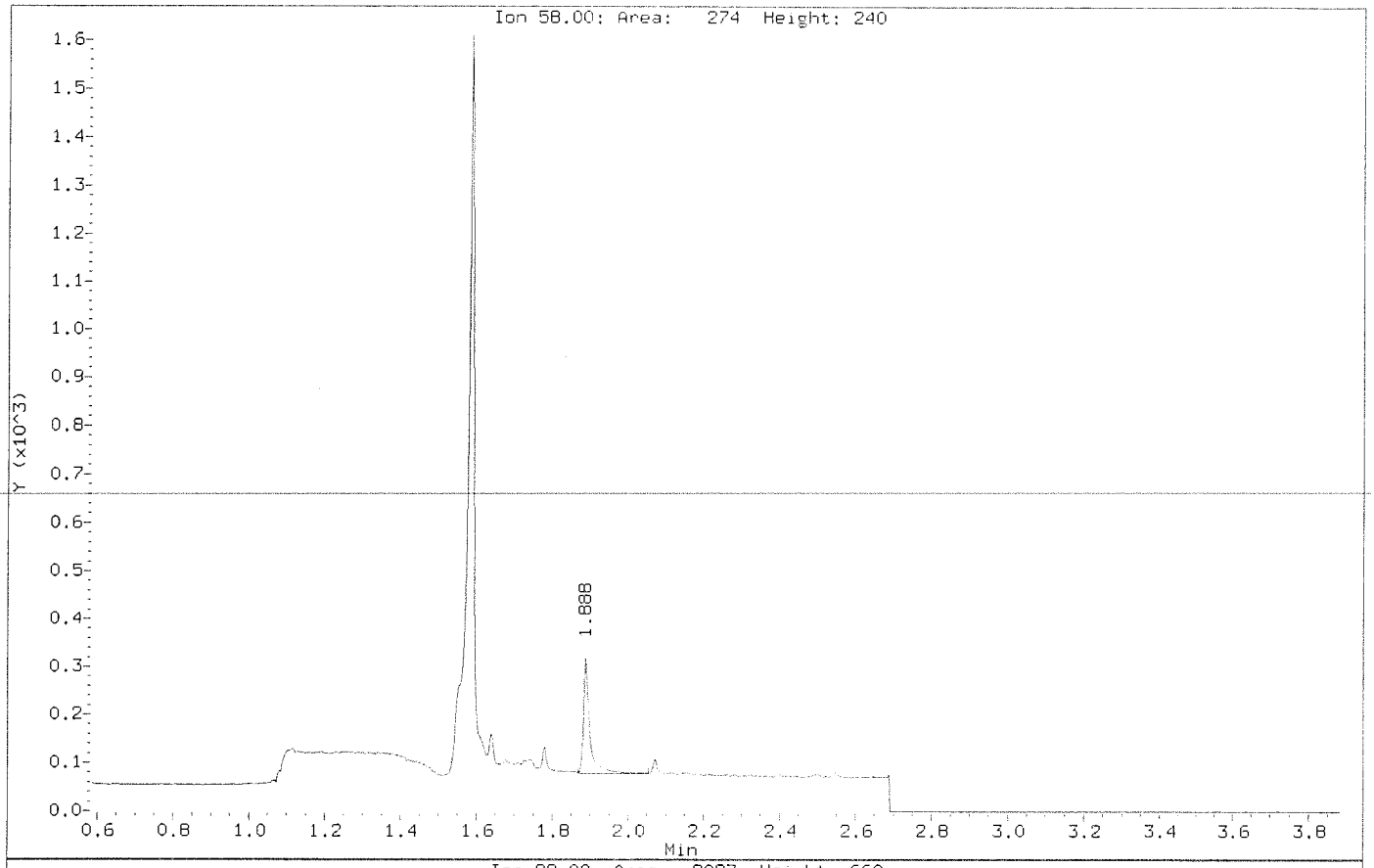


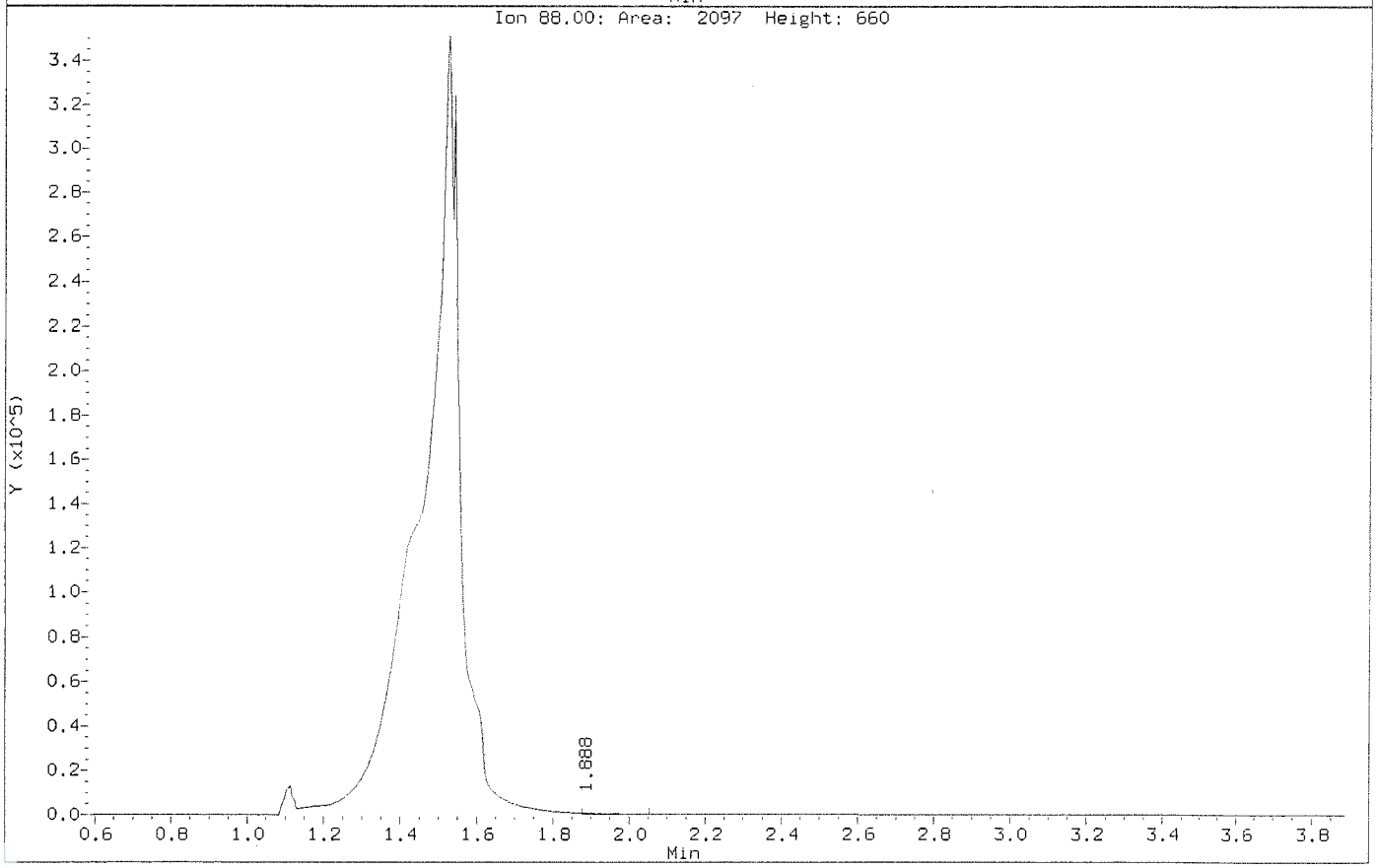




Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\Before\03.D
Injection Date: 23-AUG-2022 10:31
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

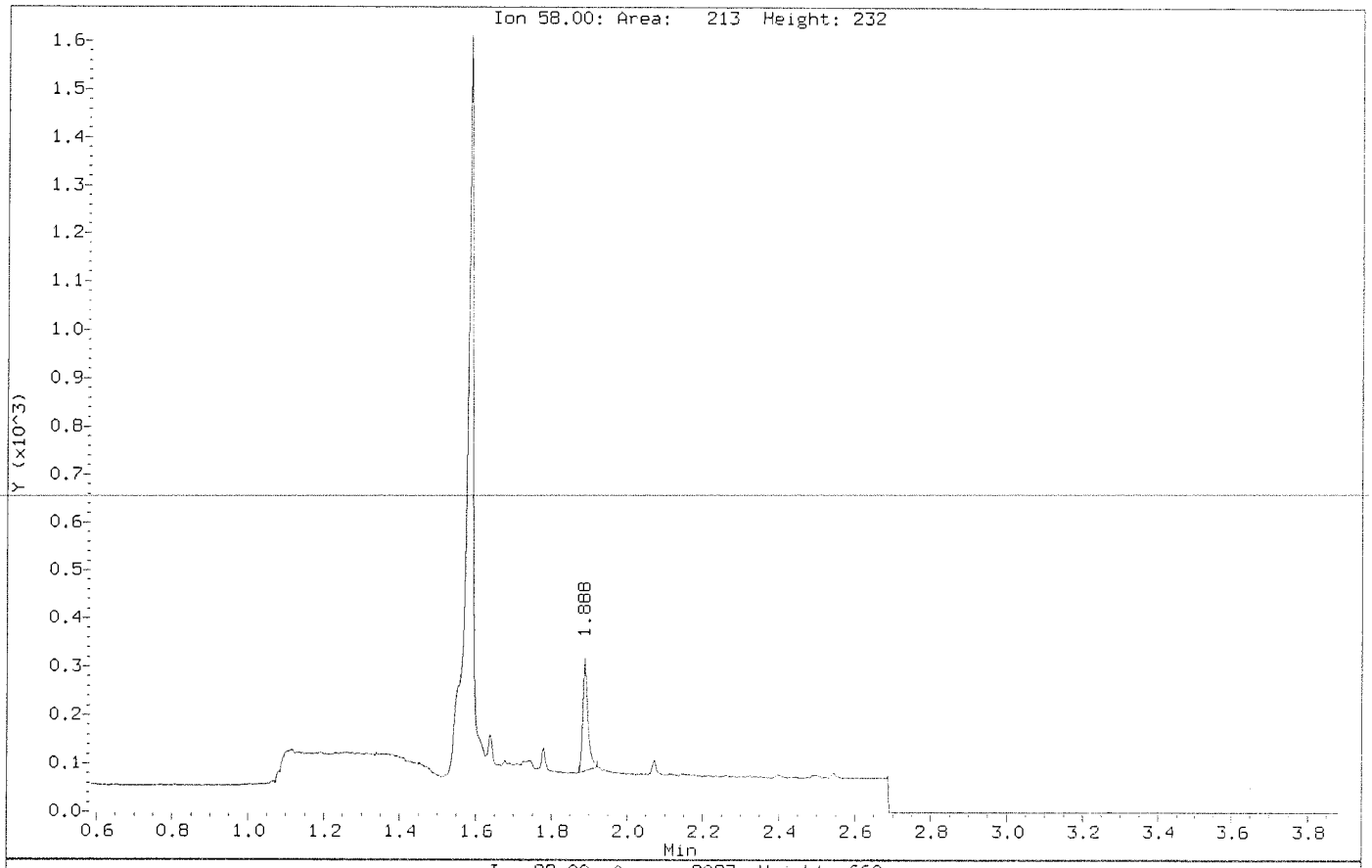
Compound: 1,4-Dioxane
CAS Number:

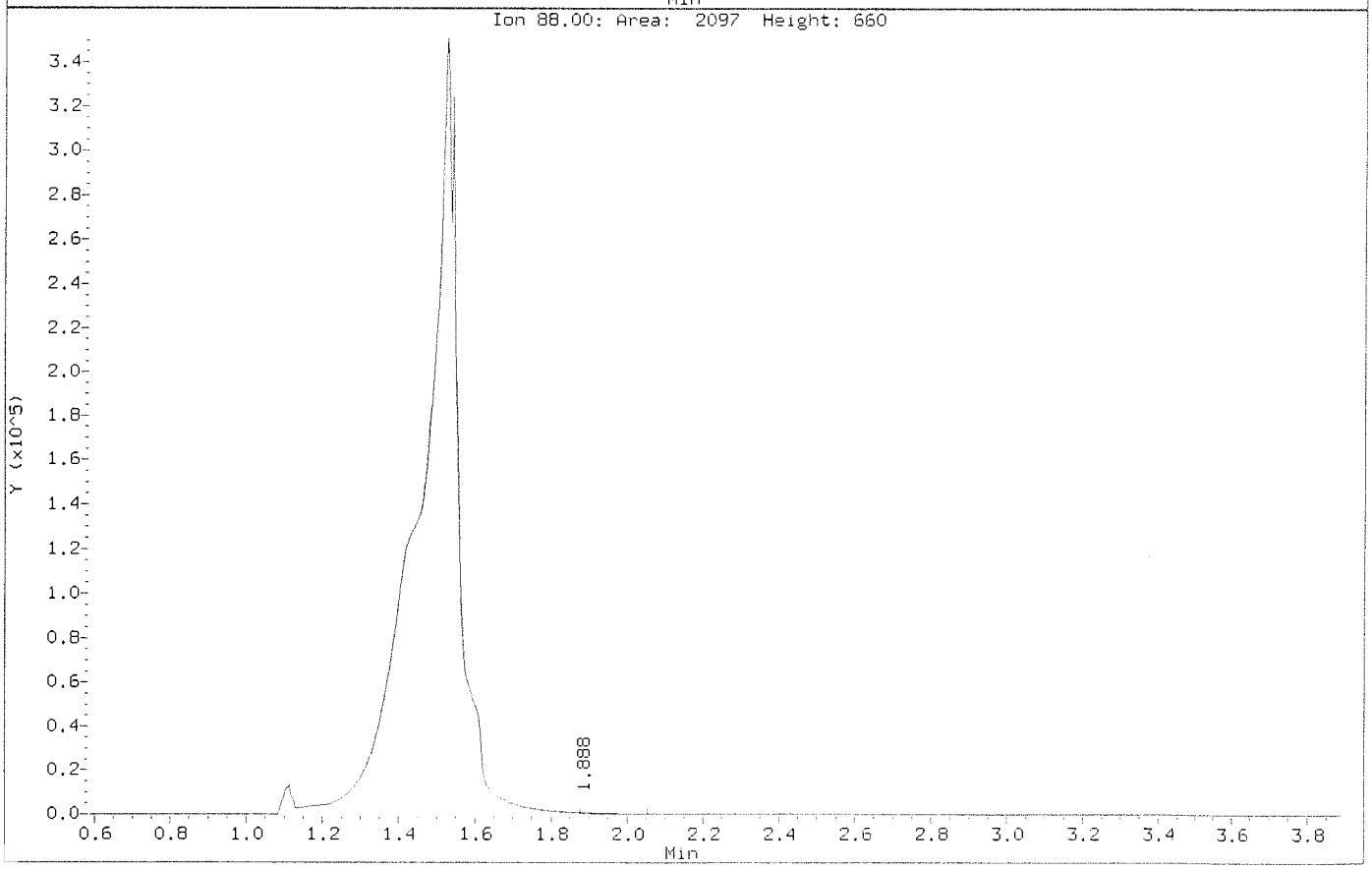




Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\03.D
Injection Date: 23-AUG-2022 10:31
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

Compound: 1,4-Dioxane
CAS Number:





Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\11.D Page 1
Report Date: 30-Aug-2022 13:31

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220823.b\11.D
Lab Smp Id: MBLK-182674 Client Smp ID: MBLK-182674
Inj Date : 23-AUG-2022 13:03
Operator : LG Inst ID: SV6.i
Smp Info : MBLK-182674
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220823.b\DXSIM.m
Meth Date : 30-Aug-2022 13:08 Linh.Pham Quant Type: ISTD
Cal Date : 10-MAR-2022 12:56 Cal File: 009.D
Als bottle: 9 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	3.598	3.609	(1.000)	3740	0.10000	(aQ)
* 45 Naphthalene-d8	136	4.705	4.723	(1.000)	16600	0.10000	
$ 33 Nitrobenzene-d5	82	4.059	4.113	(0.863)	3702	0.06690	0.06690(M)
* 86 Acenaphthene-d10	164	6.376	6.392	(1.000)	8229	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.718	5.718	(0.897)	4571	0.03569	0.03568(M)
* 126 Phenanthrene-d10	188	7.822	7.849	(1.000)	14728	0.10000	
* 182 Chrysene-d12	240	10.657	10.678	(1.000)	8245	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.408	9.425	(0.883)	7428	0.04792	0.04792(M)
* 198 Perylene-d12	264	12.719	12.751	(1.000)	5780	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.

01140173

Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\11.D

Date : 23-AUG-2022 13:03

Client ID: MBLK-182674

Instrument: SV6.i

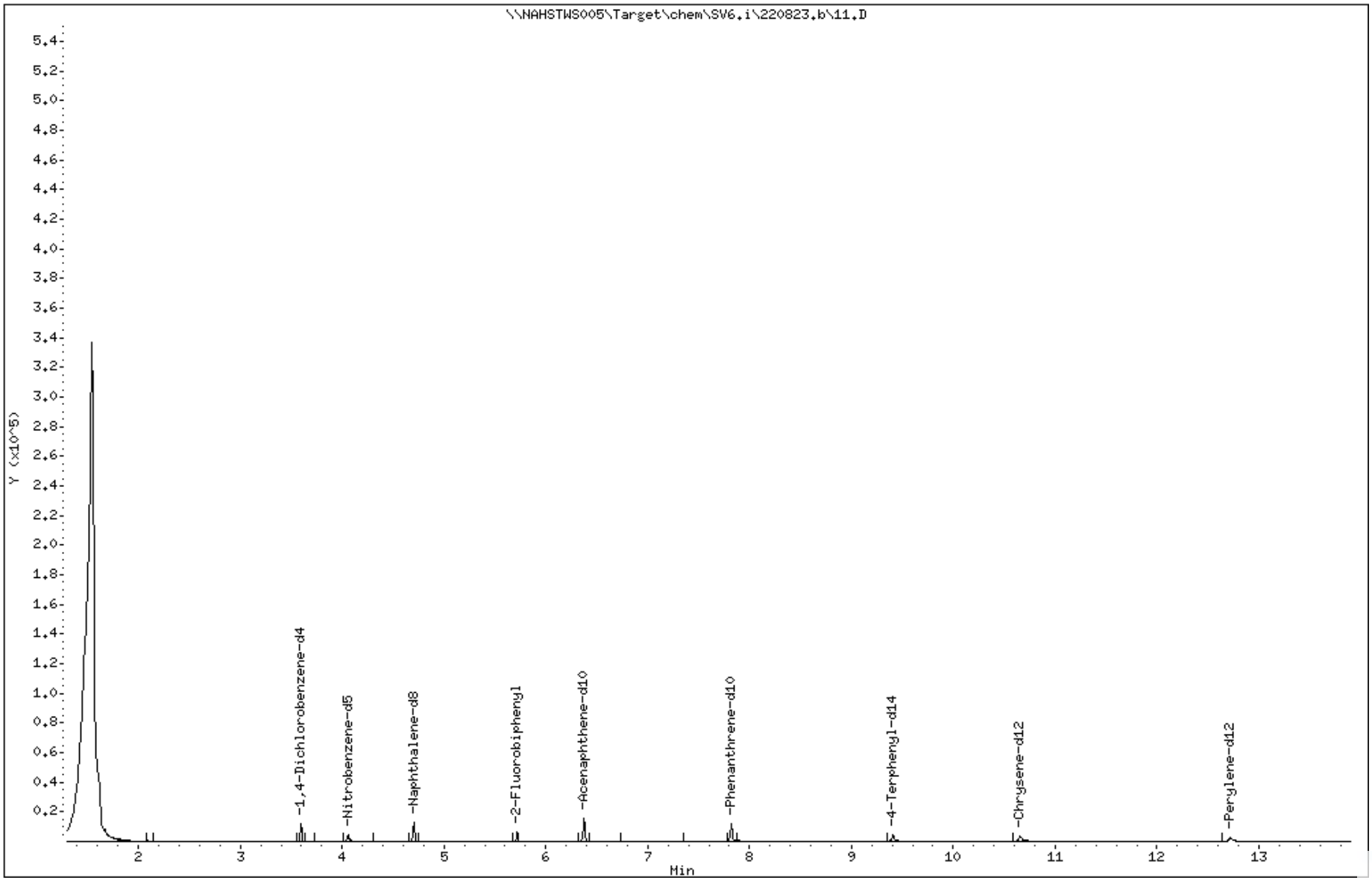
Sample Info: MBLK-182674

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



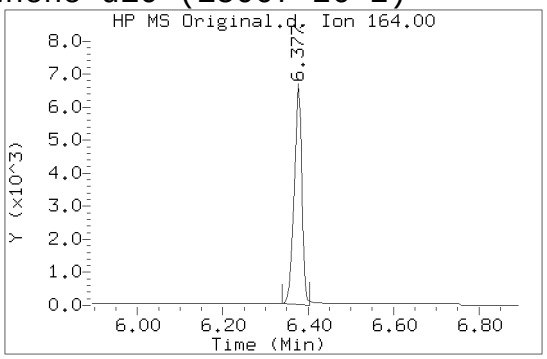
Data File : \\NAHSTWS005\Target\chem\SV6.i\220823.b\11.D
Inj Date : 23-AUG-2022 13:03
InstruID : SV6.i
LabSampID : MBLK-182674

Acenaphthene-d10 (15067-26-2)

Reason Code:

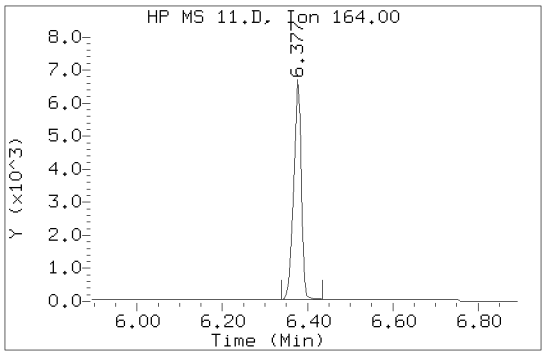
BEFORE

MASS
164
AREA
8316
HEIGHT
6684
23-Aug-2022
13:20
ALSHS
Server



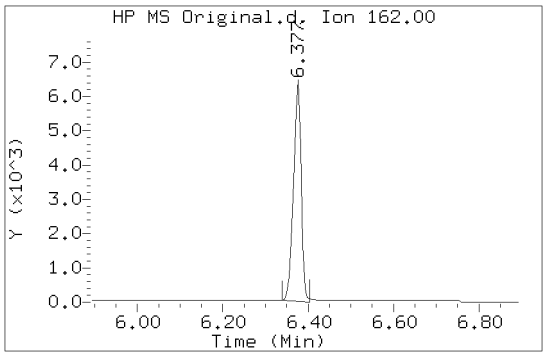
AFTER

MASS
164
AREA
8229
HEIGHT
6650
30-Aug-2022
13:31
ALSHS
Ser



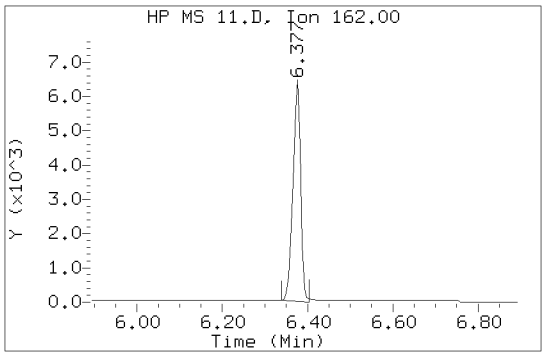
BEFORE

MASS
162
AREA
8047
HEIGHT
6461
23-Aug-2022
13:20
ALSHS
Server



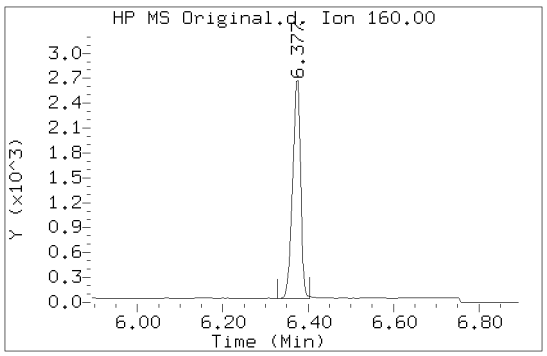
AFTER

MASS
162
AREA
8047
HEIGHT
6461
30-Aug-2022
13:31
ALSHS
Ser



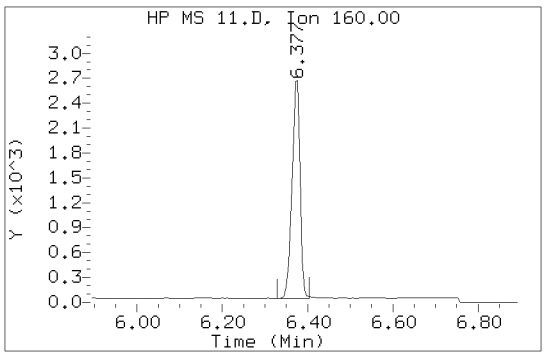
BEFORE

MASS
160
AREA
3415
HEIGHT
2621
23-Aug-2022
13:20
ALSHS
Server



AFTER

MASS
160
AREA
3415
HEIGHT
2621
30-Aug-2022
13:31
ALSHS
Ser

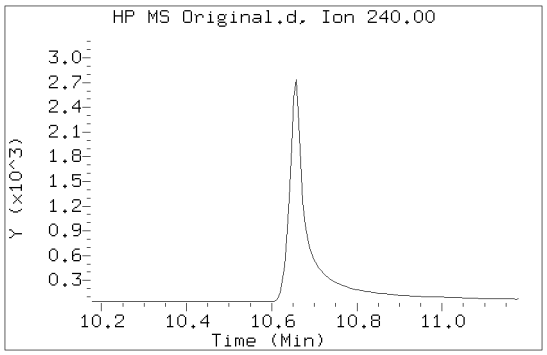


Chrysene-d12 (1719-03-5)

Reason Code:

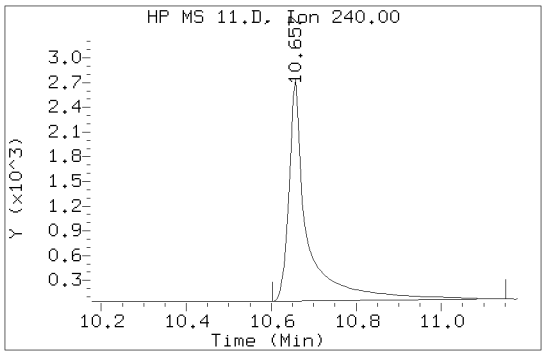
BEFORE

MASS
240
AREA
0
HEIGHT
0
23-Aug-2022
13:20
ALSHS
Server



AFTER

MASS
240
AREA
8245
HEIGHT
2685
30-Aug-2022
13:31
ALSHS
Ser



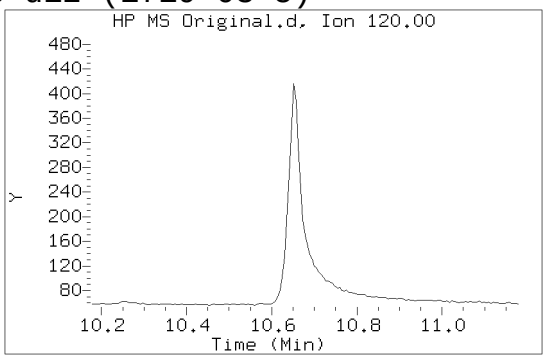
Data File : \\NAHSTWS005\Target\chem\SV6.i\220823.b\11.D
Inj Date : 23-AUG-2022 13:03
InstruID : SV6.i
LabSampID : MBLK-182674

Chrysene-d12 (1719-03-5)

Reason Code:

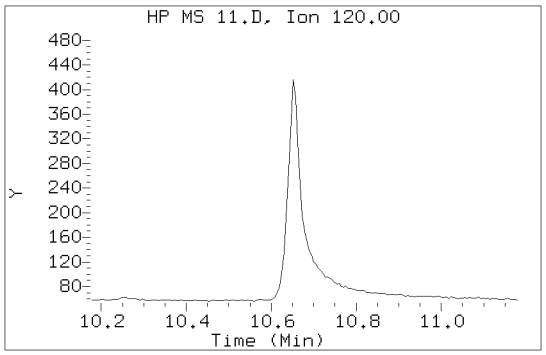
BEFORE

MASS
120
AREA
0
HEIGHT
0
23-Aug-2022
13:20
ALSHS
Server



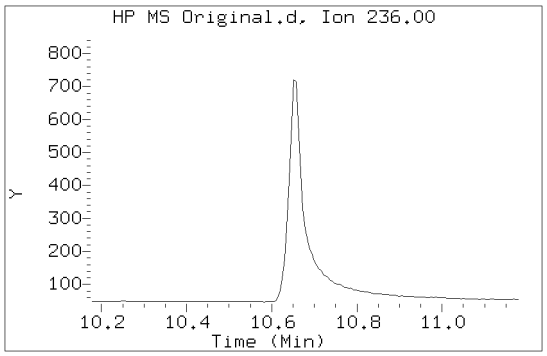
AFTER

MASS
120
AREA
0
HEIGHT
0
30-Aug-2022
13:31
ALSHS
Ser



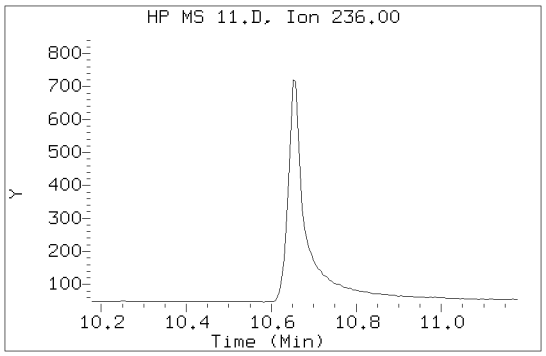
BEFORE

MASS
236
AREA
0
HEIGHT
0
23-Aug-2022
13:20
ALSHS
Server



AFTER

MASS
236
AREA
0
HEIGHT
0
30-Aug-2022
13:31
ALSHS
Ser

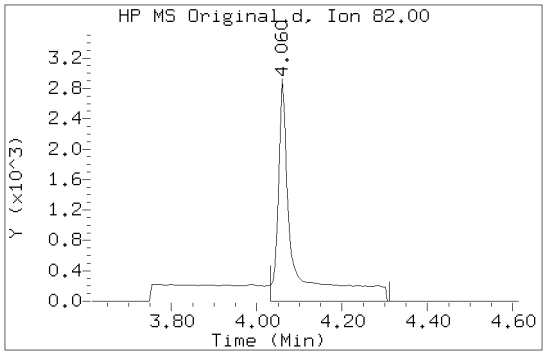


Nitrobenzene-d5 (4165-60-0)

Reason Code:

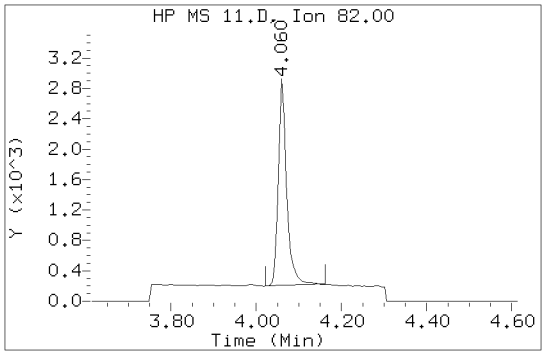
BEFORE

MASS
82
AREA
7081
HEIGHT
2925
23-Aug-2022
13:20
ALSHS
Server



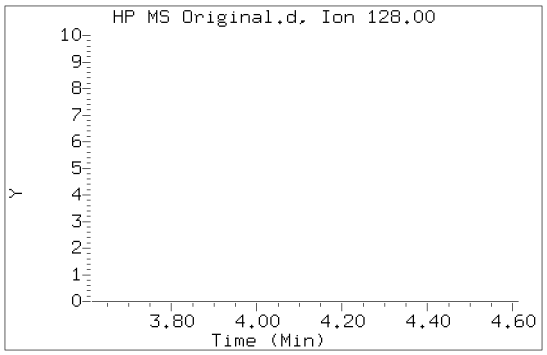
AFTER

MASS
82
AREA
3702
HEIGHT
2716
30-Aug-2022
13:31
ALSHS
Ser



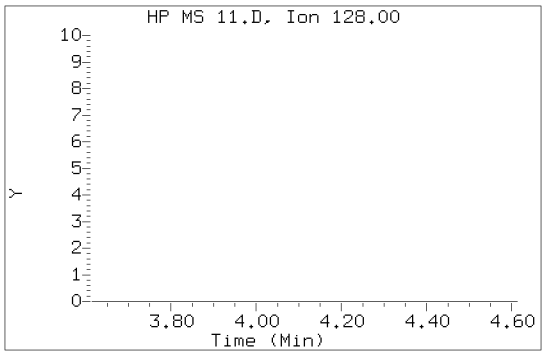
BEFORE

MASS
128
AREA
0
HEIGHT
0
23-Aug-2022
13:20
ALSHS
Server



AFTER

MASS
128
AREA
0
HEIGHT
0
30-Aug-2022
13:31
ALSHS
Ser



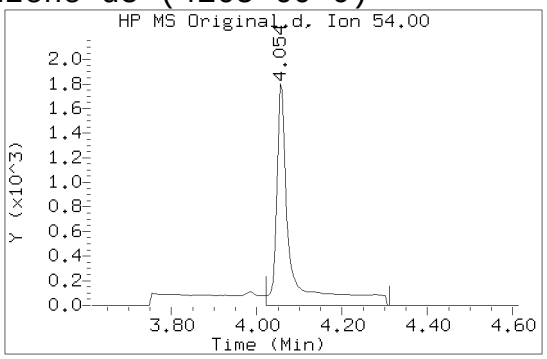
Data File : \\NAHSTWS005\Target\chem\SV6.i\220823.b\11.D
Inj Date : 23-AUG-2022 13:03
InstruID : SV6.i
LabSampID : MBLK-182674

Nitrobenzene-d5 (4165-60-0)

Reason Code:

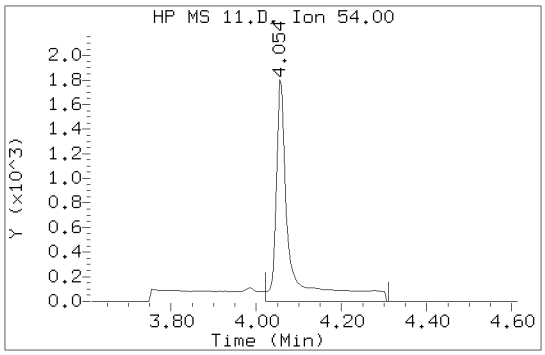
BEFORE

MASS
54
AREA
3970
HEIGHT
1802
23-Aug-2022
13:20
ALSHS
Server



AFTER

MASS
54
AREA
3970
HEIGHT
1802
30-Aug-2022
13:31
ALSHS
Ser

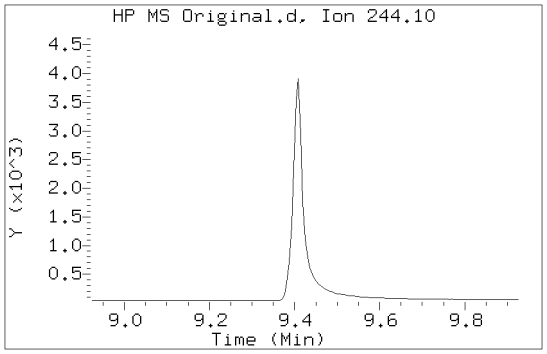


4-Terphenyl-d14 (1718-51-0)

Reason Code:

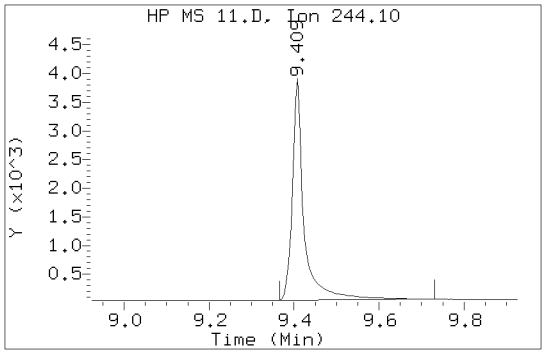
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
23-Aug-2022
13:20
ALSHS
Server



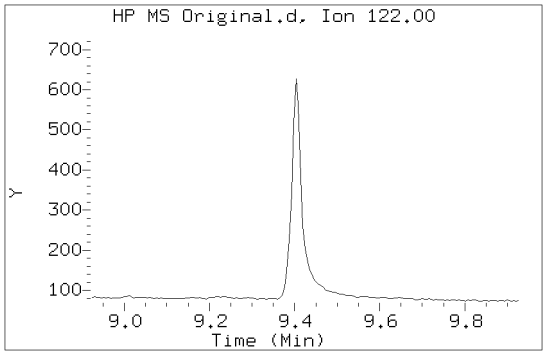
AFTER

MASS
244.1
AREA
7428
HEIGHT
3859
30-Aug-2022
13:31
ALSHS
Ser



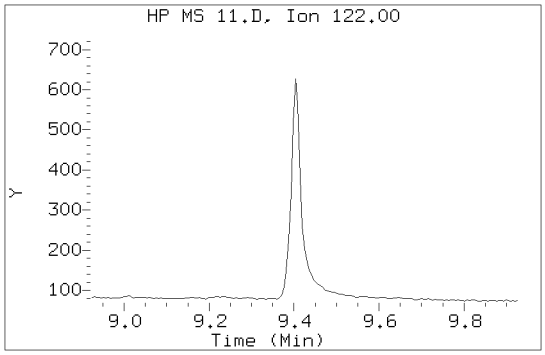
BEFORE

MASS
122
AREA
0
HEIGHT
0
23-Aug-2022
13:20
ALSHS
Server



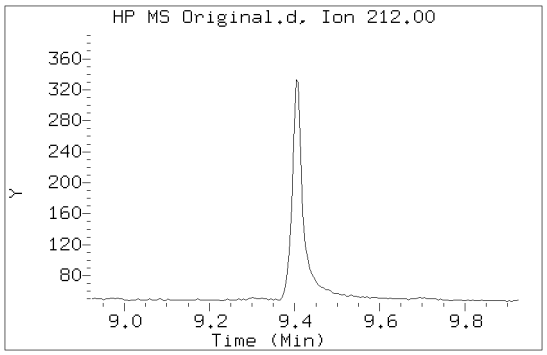
AFTER

MASS
122
AREA
0
HEIGHT
0
30-Aug-2022
13:31
ALSHS
Ser



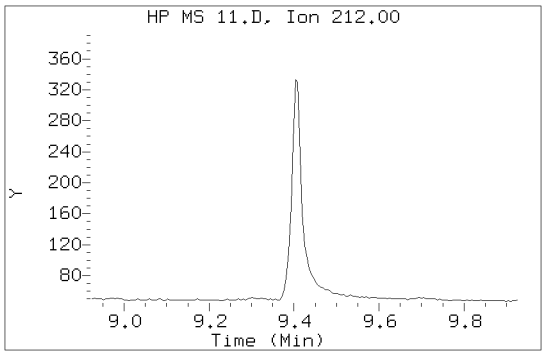
BEFORE

MASS
212
AREA
0
HEIGHT
0
23-Aug-2022
13:20
ALSHS
Server



AFTER

MASS
212
AREA
0
HEIGHT
0
30-Aug-2022
13:31
ALSHS
Ser



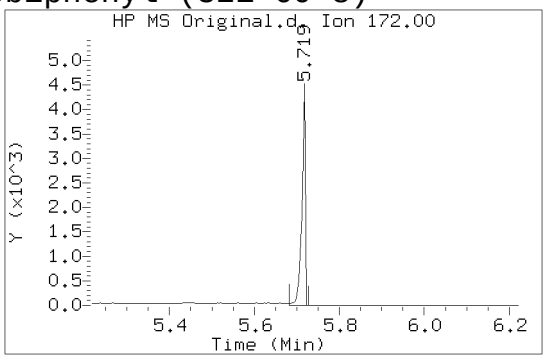
Data File : \\NAHSTWS005\Target\chem\SV6.i\220823.b\11.D
Inj Date : 23-AUG-2022 13:03
InstruID : SV6.i
LabSampID : MBLK-182674

2-Fluorobiphenyl (321-60-8)

Reason Code:

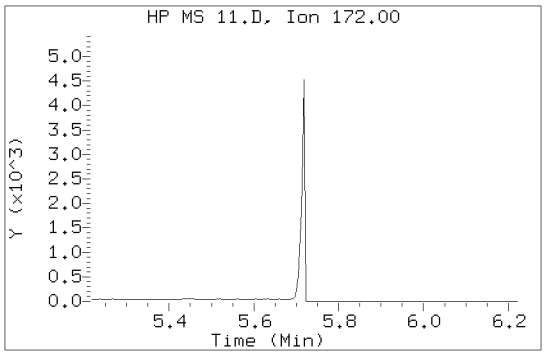
BEFORE

MASS
172
AREA
2640
HEIGHT
4527
23-Aug-2022
13:20
ALSHS
Server



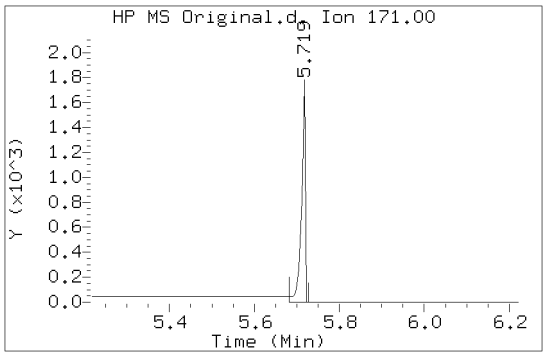
AFTER

MASS
172
AREA
4571
HEIGHT
4527
30-Aug-2022
13:31
ALSHS
Ser



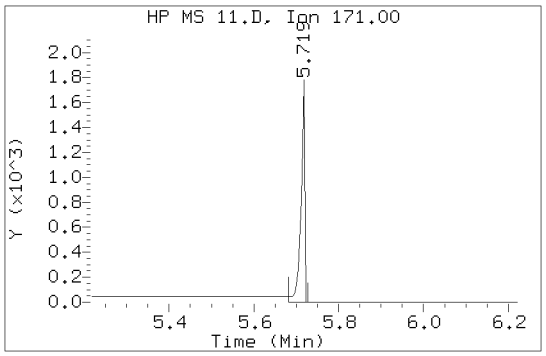
BEFORE

MASS
171
AREA
1150
HEIGHT
1781
23-Aug-2022
13:20
ALSHS
Server



AFTER

MASS
171
AREA
1150
HEIGHT
1781
30-Aug-2022
13:31
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\12.D Page 1
Report Date: 24-Aug-2022 10:26

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220823.b\12.D
Lab Smp Id: LCS-182674
Inj Date : 23-AUG-2022 13:21
Operator : LG Inst ID: SV6.i
Smp Info : LCS-182674
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220823.b\DXSIM.m
Meth Date : 24-Aug-2022 10:25 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 12:56 Cal File: 009.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7122

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	3.598	3.592	(1.000)	11766	0.10000	(aM)
* 45 Naphthalene-d8	136	4.705	4.705	(1.000)	15196	0.10000	
$ 33 Nitrobenzene-d5	82	4.059	4.059	(0.863)	3507	0.06923	0.06923(M)
* 86 Acenaphthene-d10	164	6.376	6.376	(1.000)	7453	0.10000	(Q)
$ 69 2-Fluorobiphenyl	172	5.718	5.718	(0.897)	4087	0.03523	0.03523(M)
* 126 Phenanthrene-d10	188	7.827	7.827	(1.000)	13138	0.10000	
* 182 Chrysene-d12	240	10.657	10.657	(1.000)	6821	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.408	9.408	(0.883)	6759	0.05271	0.05270(M)
* 198 Perylene-d12	264	12.724	12.724	(1.000)	4654	0.10000	
1 1,4-Dioxane	58	1.869	1.887	(0.520)	484	0.10020	0.1002(aM)

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.

01140179

Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\12.D

Date : 23-AUG-2022 13:21

Client ID:

Instrument: SV6.i

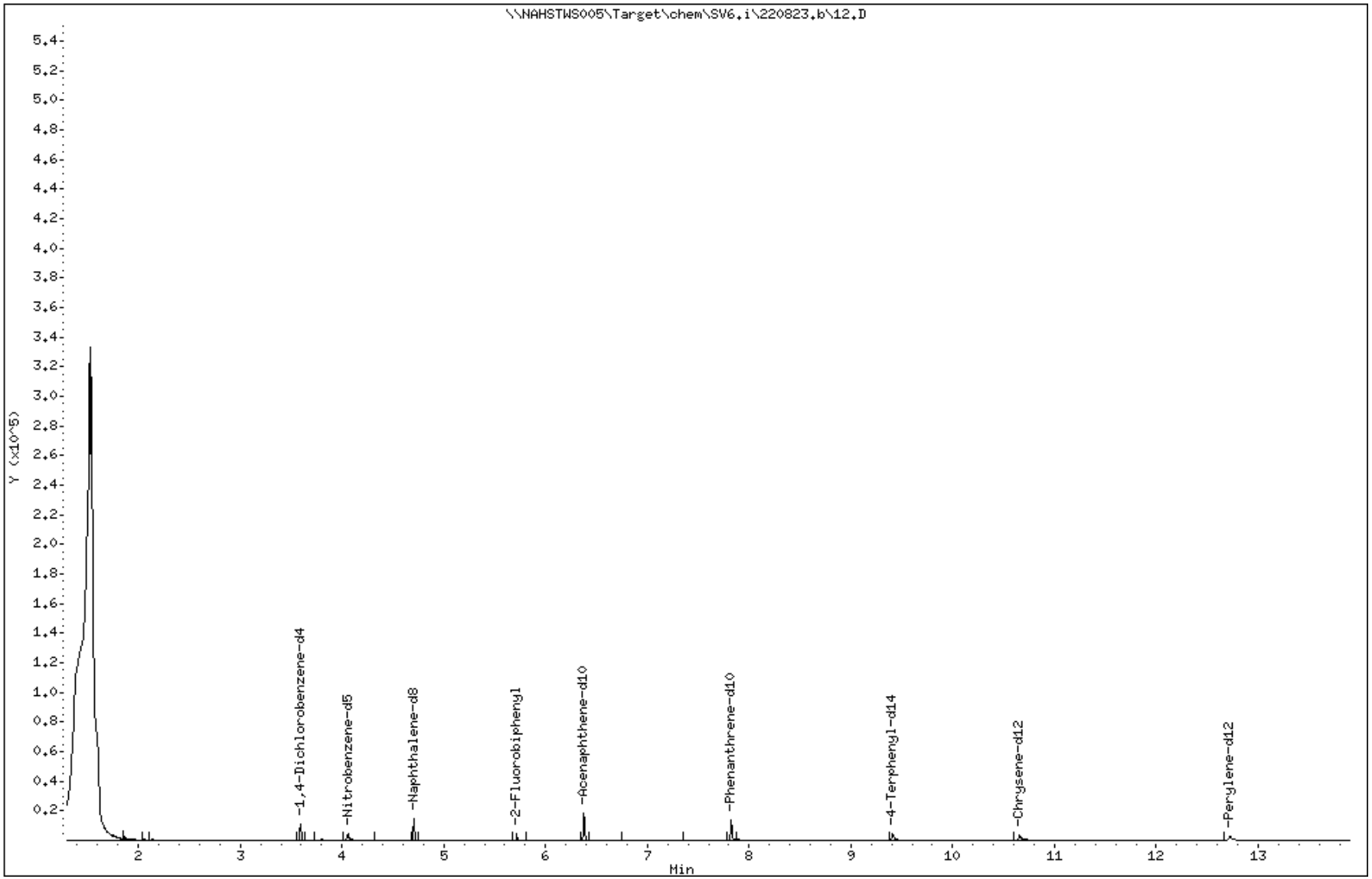
Sample Info: LCS-182674

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



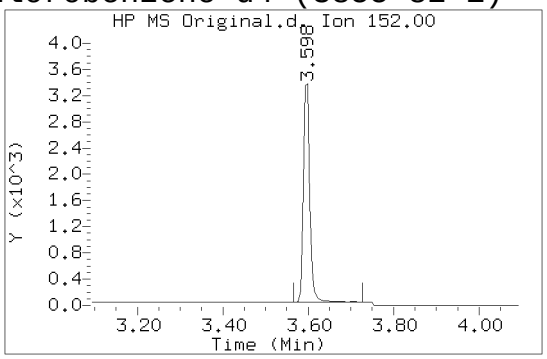
Data File : \\NAHSTWS005\Target\chem\SV6.i\220823.b\12.D
Inj Date : 23-AUG-2022 13:21
InstruID : SV6.i
LabSampID : LCS-182674

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

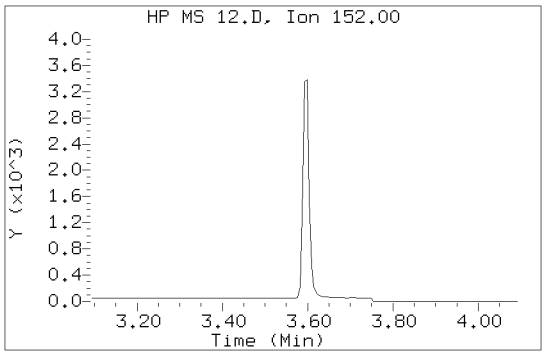
BEFORE

MASS
152
AREA
3420
HEIGHT
3334
23-Aug-2022
13:37
ALSHS
Server



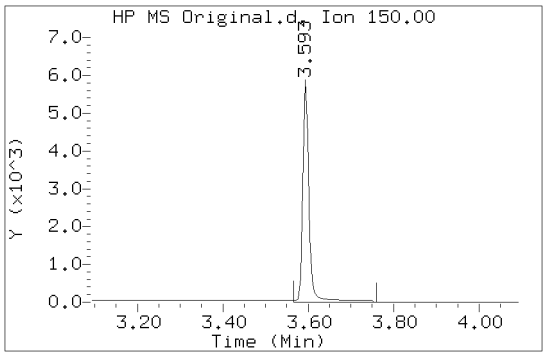
AFTER

MASS
152
AREA
11766
HEIGHT
3464
24-Aug-2022
10:25
ALSHS
S



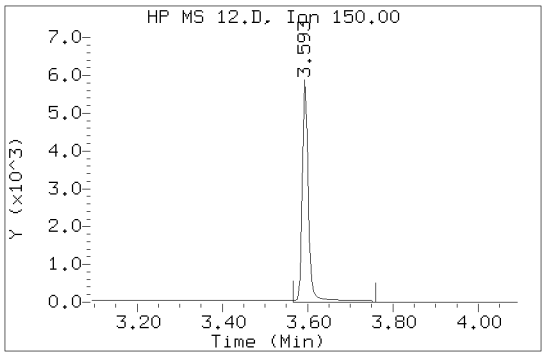
BEFORE

MASS
150
AREA
5940
HEIGHT
5880
23-Aug-2022
13:37
ALSHS
Server



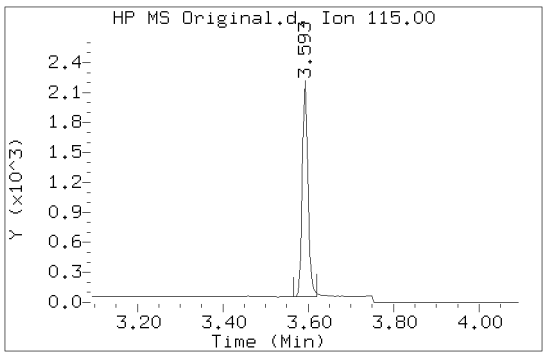
AFTER

MASS
150
AREA
5940
HEIGHT
5880
24-Aug-2022
10:25
ALSHS
S



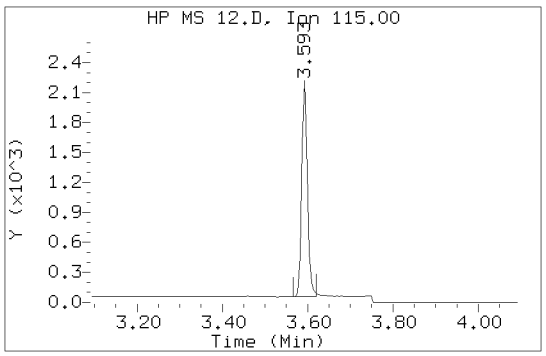
BEFORE

MASS
115
AREA
1952
HEIGHT
2164
23-Aug-2022
13:37
ALSHS
Server



AFTER

MASS
115
AREA
1952
HEIGHT
2164
24-Aug-2022
10:25
ALSHS
S

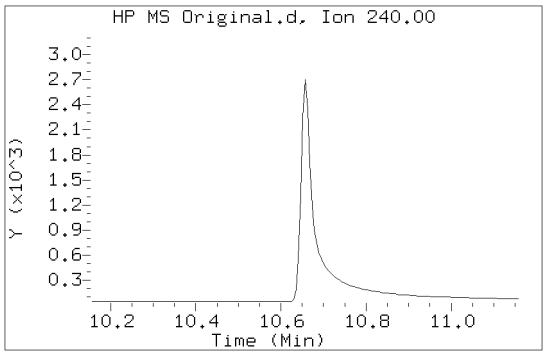


Chrysene-d12 (1719-03-5)

Reason Code:

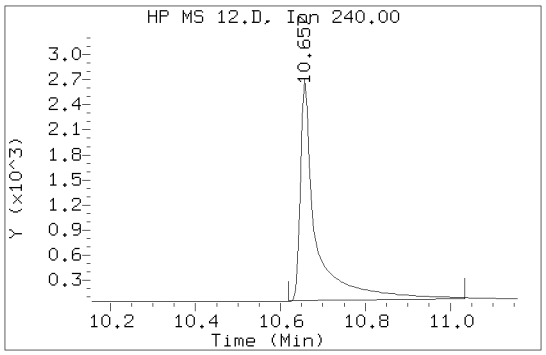
BEFORE

MASS
240
AREA
0
HEIGHT
0
23-Aug-2022
13:37
ALSHS
Server



AFTER

MASS
240
AREA
6821
HEIGHT
2648
24-Aug-2022
10:25
ALSHS
S



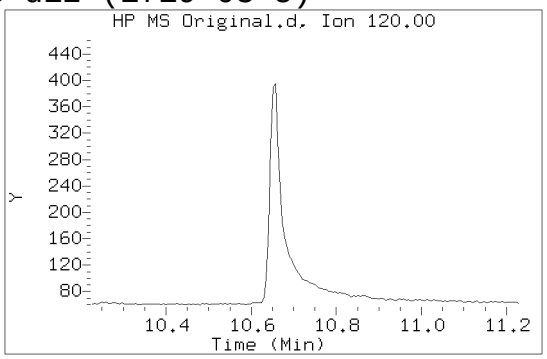
Data File : \\NAHSTWS005\Target\chem\SV6.i\220823.b\12.D
Inj Date : 23-AUG-2022 13:21
InstruID : SV6.i
LabSampID : LCS-182674

Chrysene-d12 (1719-03-5)

Reason Code:

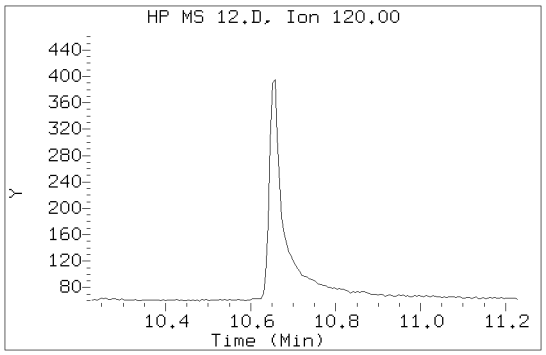
BEFORE

MASS
120
AREA
0
HEIGHT
0
23-Aug-2022
13:37
ALSHS
Server



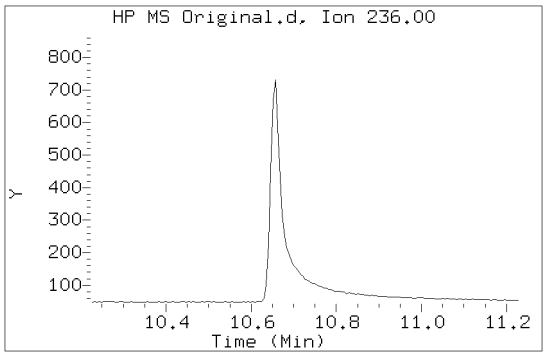
AFTER

MASS
120
AREA
0
HEIGHT
0
24-Aug-2022
10:25
ALSHS
S



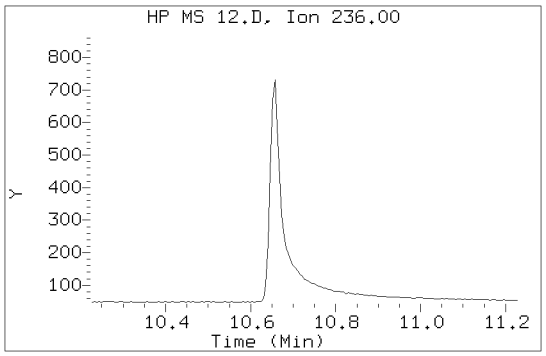
BEFORE

MASS
236
AREA
0
HEIGHT
0
23-Aug-2022
13:37
ALSHS
Server



AFTER

MASS
236
AREA
0
HEIGHT
0
24-Aug-2022
10:25
ALSHS
S

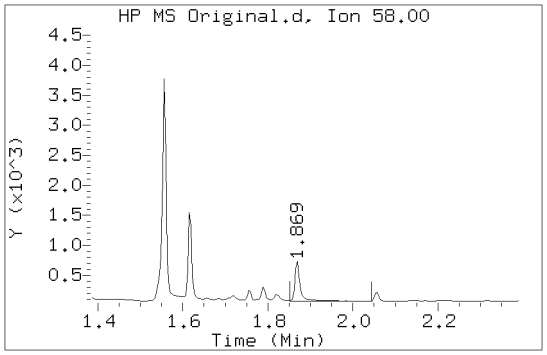


1,4-Dioxane ()

Reason Code:

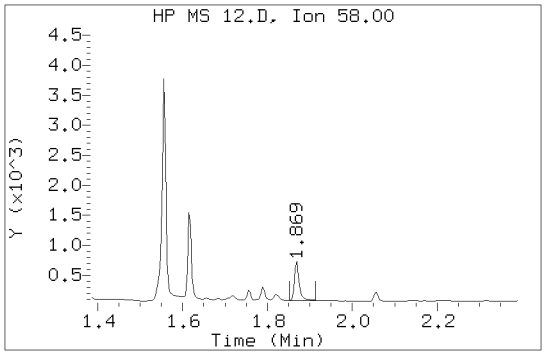
BEFORE

MASS
58
AREA
571
HEIGHT
661
23-Aug-2022
13:37
ALSHS
Server



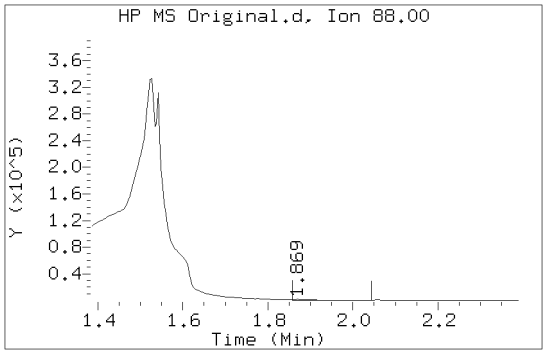
AFTER

MASS
58
AREA
484
HEIGHT
648
24-Aug-2022
10:25
ALSHS
S



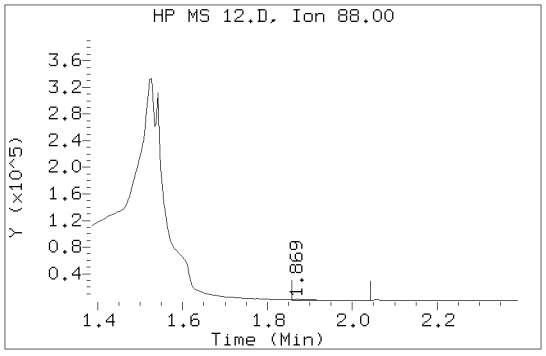
BEFORE

MASS
88
AREA
3455
HEIGHT
1311
23-Aug-2022
13:37
ALSHS
Server



AFTER

MASS
88
AREA
3455
HEIGHT
1311
24-Aug-2022
10:25
ALSHS
S



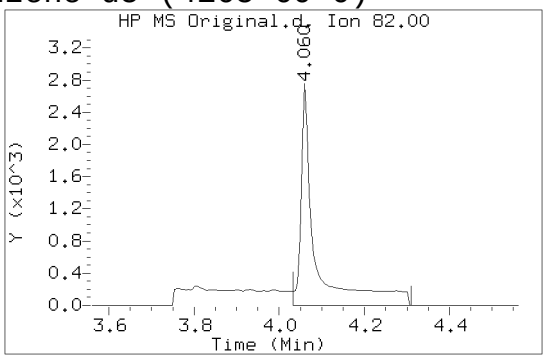
Data File : \\NAHSTWS005\Target\chem\SV6.i\220823.b\12.D
Inj Date : 23-AUG-2022 13:21
InstruID : SV6.i
LabSampID : LCS-182674

Nitrobenzene-d5 (4165-60-0)

Reason Code:

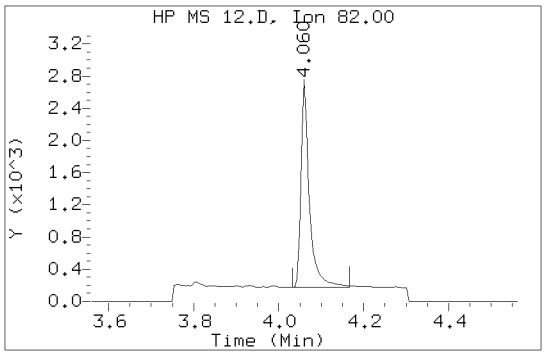
BEFORE

MASS
82
AREA
6385
HEIGHT
2755
23-Aug-2022
13:37
ALSHS
Server



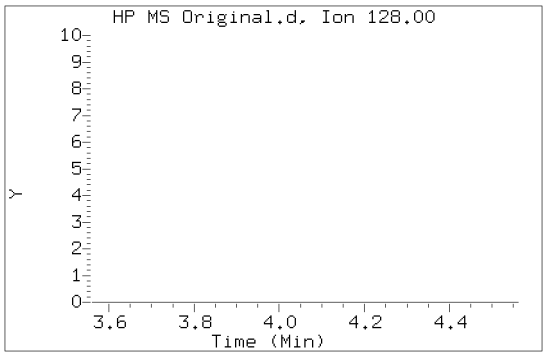
AFTER

MASS
82
AREA
3507
HEIGHT
2579
24-Aug-2022
10:25
ALSHS
S



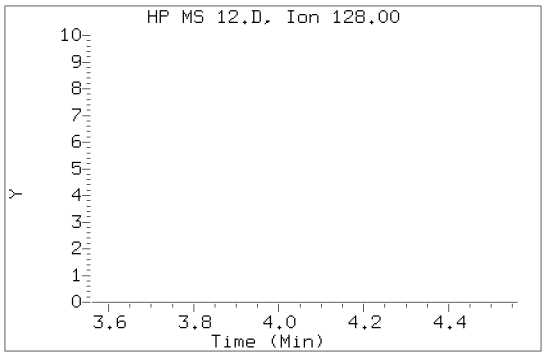
BEFORE

MASS
128
AREA
0
HEIGHT
0
23-Aug-2022
13:37
ALSHS
Server



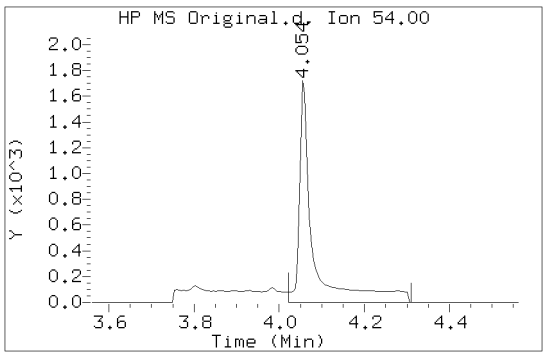
AFTER

MASS
128
AREA
0
HEIGHT
0
24-Aug-2022
10:25
ALSHS
S



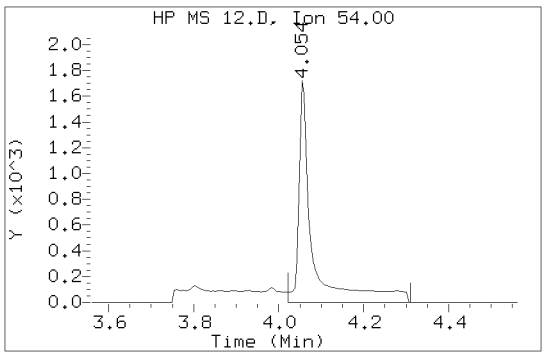
BEFORE

MASS
54
AREA
3784
HEIGHT
1720
23-Aug-2022
13:37
ALSHS
Server



AFTER

MASS
54
AREA
3784
HEIGHT
1720
24-Aug-2022
10:25
ALSHS
S

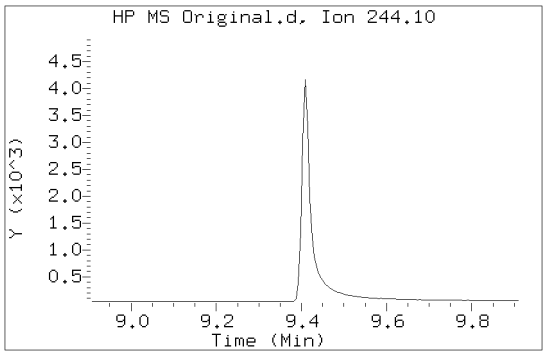


4-Terphenyl-d14 (1718-51-0)

Reason Code:

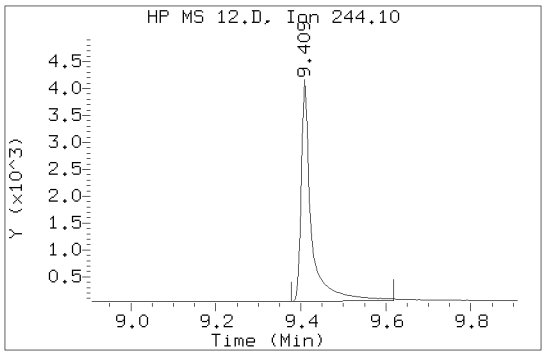
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
23-Aug-2022
13:37
ALSHS
Server



AFTER

MASS
244.1
AREA
6759
HEIGHT
4118
24-Aug-2022
10:25
ALSHS
S

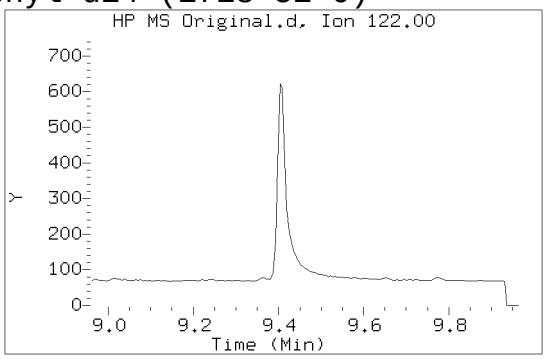


Data File : \\NAHSTWS005\Target\chem\SV6.i\220823.b\12.D
Inj Date : 23-AUG-2022 13:21
InstruID : SV6.i
LabSampID : LCS-182674

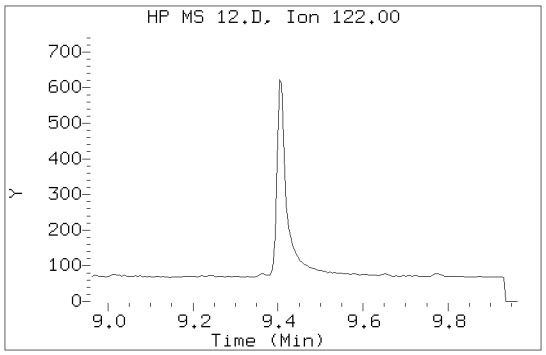
4-Terphenyl-d14 (1718-51-0)

Reason Code:

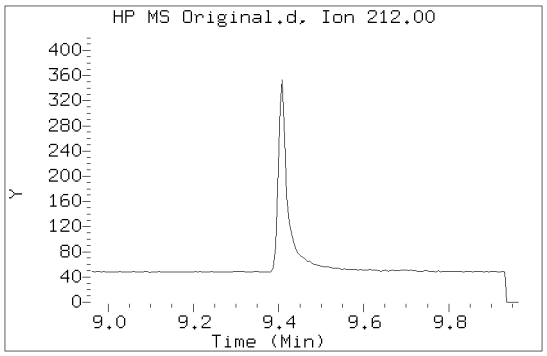
BEFORE
MASS
122
AREA
0
HEIGHT
0
23-Aug-2022
13:37
ALSHS
Server



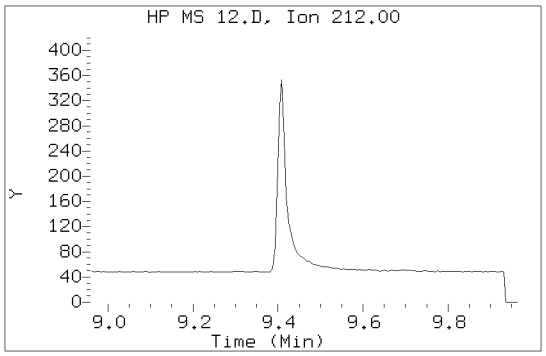
AFTER
MASS
122
AREA
0
HEIGHT
0
24-Aug-2022
10:25
ALSHS
S



BEFORE
MASS
212
AREA
0
HEIGHT
0
23-Aug-2022
13:37
ALSHS
Server



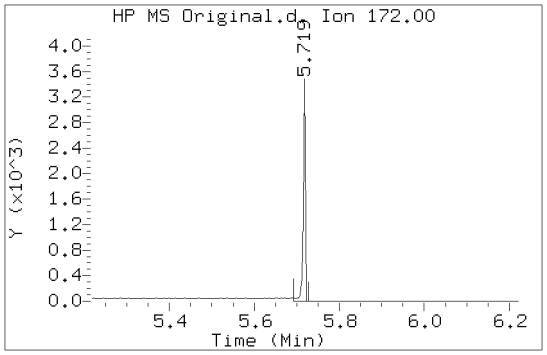
AFTER
MASS
212
AREA
0
HEIGHT
0
24-Aug-2022
10:25
ALSHS
S



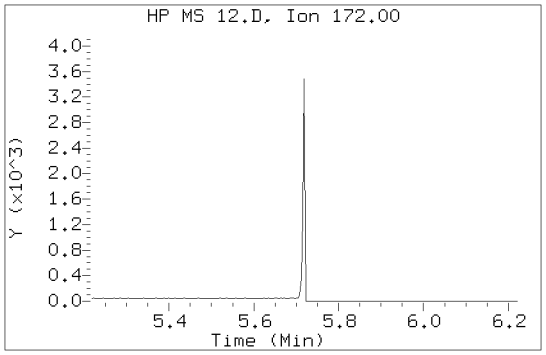
2-Fluorobiphenyl (321-60-8)

Reason Code:

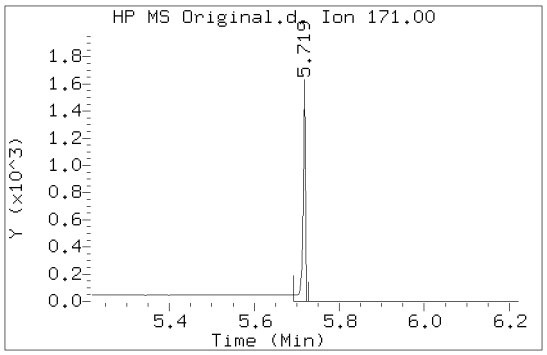
BEFORE
MASS
172
AREA
1268
HEIGHT
3484
23-Aug-2022
13:37
ALSHS
Server



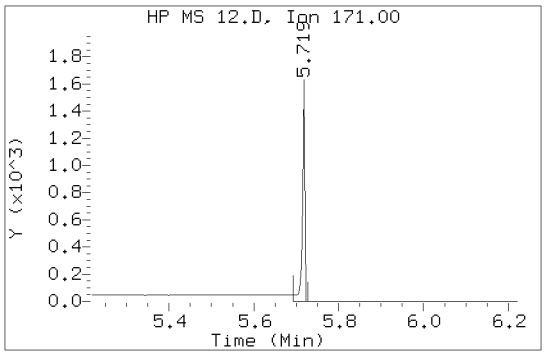
AFTER
MASS
172
AREA
4087
HEIGHT
3521
24-Aug-2022
10:25
ALSHS
S



BEFORE
MASS
171
AREA
676
HEIGHT
1631
23-Aug-2022
13:37
ALSHS
Server



AFTER
MASS
171
AREA
676
HEIGHT
1631
24-Aug-2022
10:25
ALSHS
S



Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\13.D Page 1
Report Date: 24-Aug-2022 10:26

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220823.b\13.D
Lab Smp Id: LCSD-182674
Inj Date : 23-AUG-2022 13:39
Operator : LG Inst ID: SV6.i
Smp Info : LCSD-182674
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220823.b\DXSIM.m
Meth Date : 24-Aug-2022 10:25 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 12:56 Cal File: 009.D
Als bottle: 10 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7122

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	3.598	3.592	(1.000)	6088	0.10000	(aM)
* 45 Naphthalene-d8	136	4.705	4.705	(1.000)	15376	0.10000	
$ 33 Nitrobenzene-d5	82	4.059	4.059	(0.863)	3571	0.06967	0.06967(M)
* 86 Acenaphthene-d10	164	6.376	6.376	(1.000)	7630	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.718	5.718	(0.897)	4371	0.03680	0.03680(M)
* 126 Phenanthrene-d10	188	7.827	7.827	(1.000)	13386	0.10000	
* 182 Chrysene-d12	240	10.657	10.657	(1.000)	7419	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.408	9.408	(0.883)	7027	0.05038	0.05038(M)
* 198 Perylene-d12	264	12.724	12.724	(1.000)	4882	0.10000	
1 1,4-Dioxane	58	1.873	1.887	(0.521)	273	0.10923	0.1092(aM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01140185

Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\13.D

Page 1

Date : 23-AUG-2022 13:39

Client ID:

Instrument: SV6.i

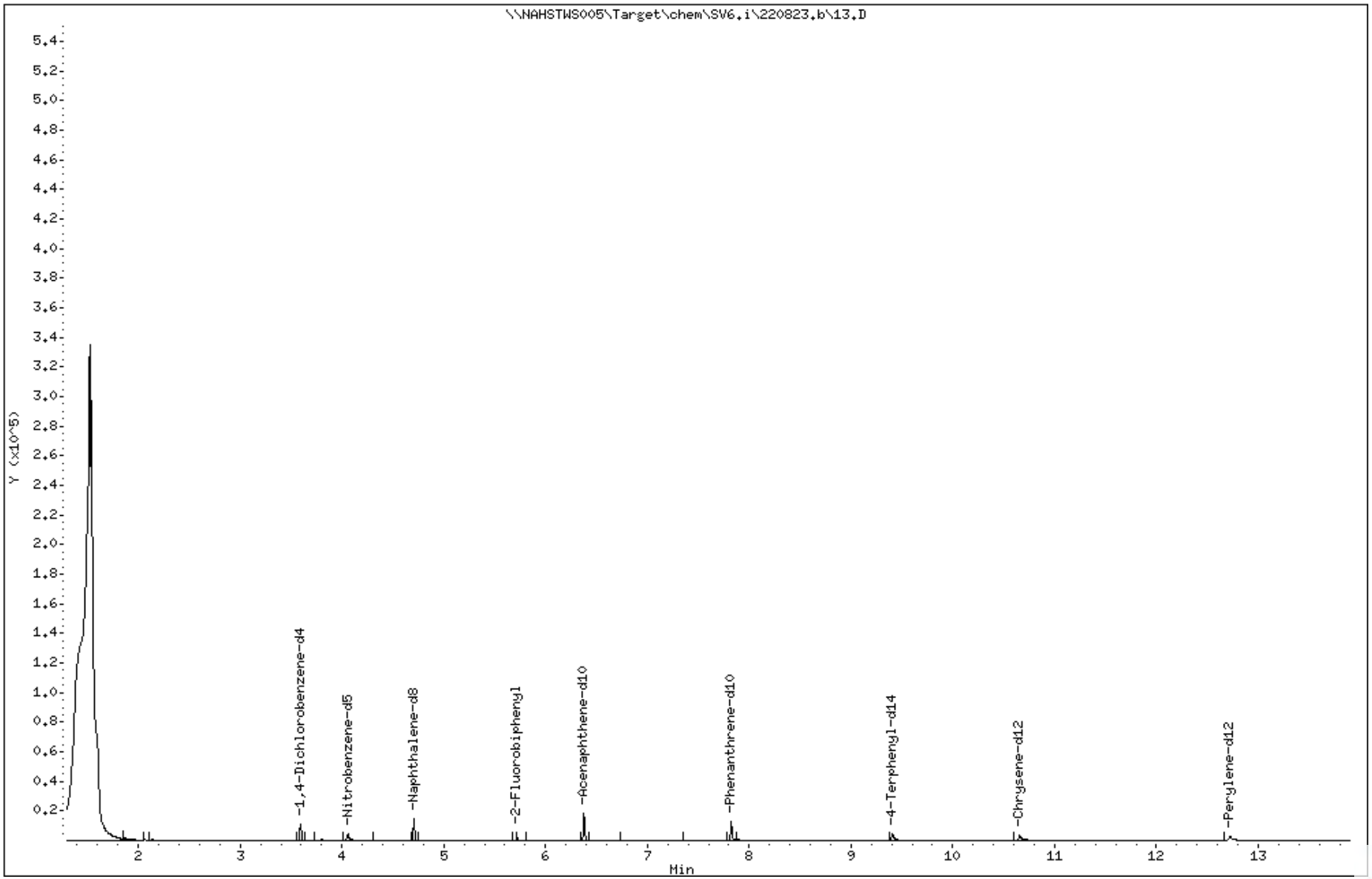
Sample Info: LCSD-182674

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



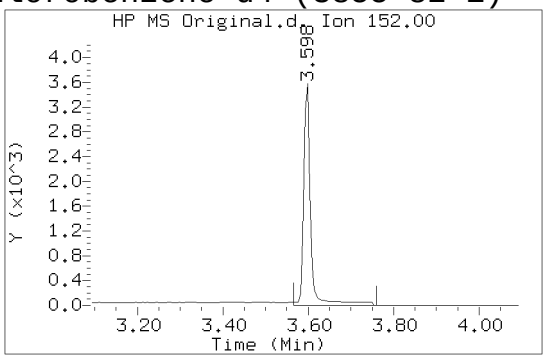
Data File : \\NAHSTWS005\Target\chem\SV6.i\220823.b\13.D
Inj Date : 23-AUG-2022 13:39
InstruID : SV6.i
LabSampID : LCSD-182674

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

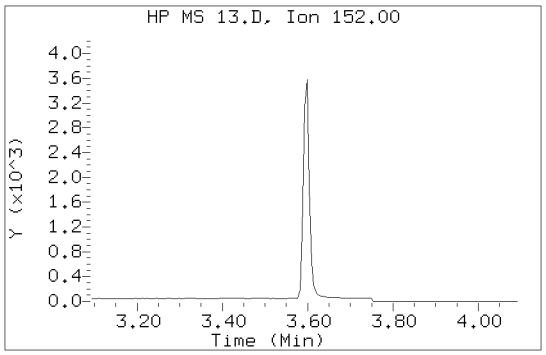
BEFORE

MASS
152
AREA
4008
HEIGHT
3576
23-Aug-2022
13:54
ALSHS
Server



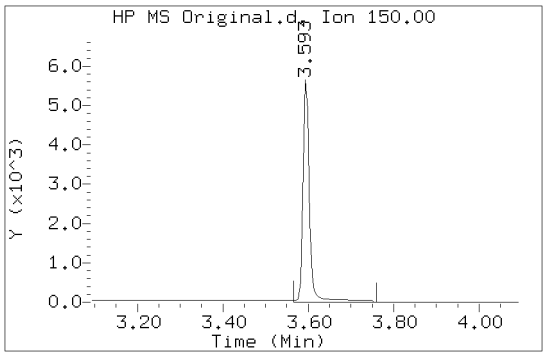
AFTER

MASS
152
AREA
6088
HEIGHT
3576
24-Aug-2022
10:25
ALSHS
S



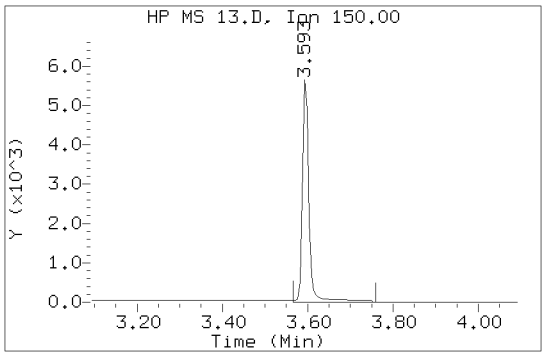
BEFORE

MASS
150
AREA
6022
HEIGHT
5653
23-Aug-2022
13:54
ALSHS
Server



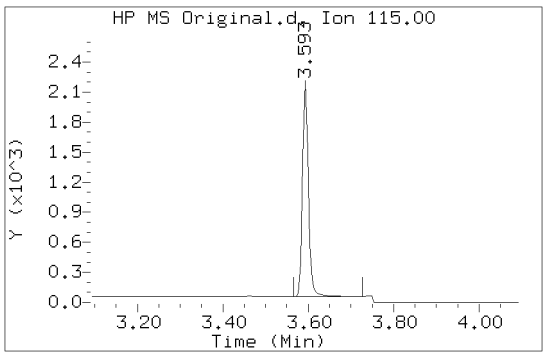
AFTER

MASS
150
AREA
6022
HEIGHT
5653
24-Aug-2022
10:25
ALSHS
S



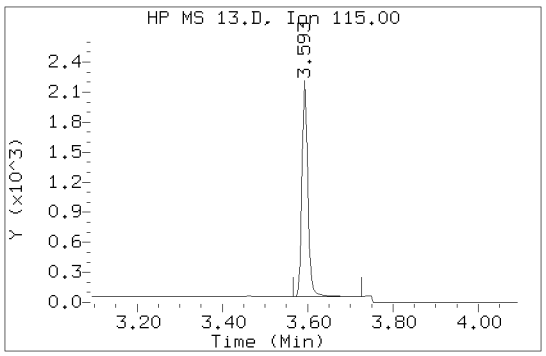
BEFORE

MASS
115
AREA
2039
HEIGHT
2159
23-Aug-2022
13:54
ALSHS
Server



AFTER

MASS
115
AREA
2039
HEIGHT
2159
24-Aug-2022
10:25
ALSHS
S

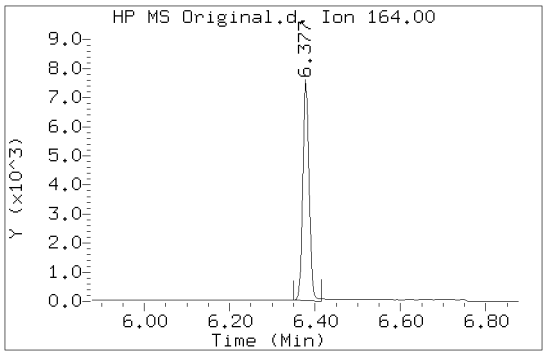


Acenaphthene-d10 (15067-26-2)

Reason Code:

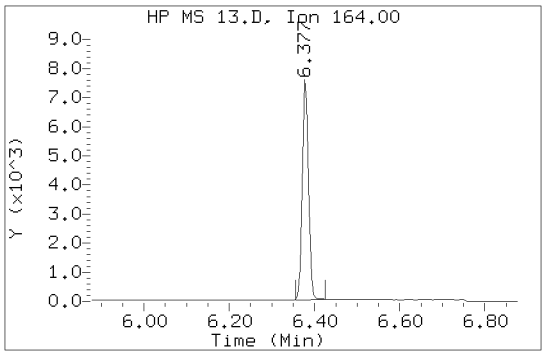
BEFORE

MASS
164
AREA
7731
HEIGHT
7587
23-Aug-2022
13:54
ALSHS
Server



AFTER

MASS
164
AREA
7630
HEIGHT
7567
24-Aug-2022
10:25
ALSHS
S



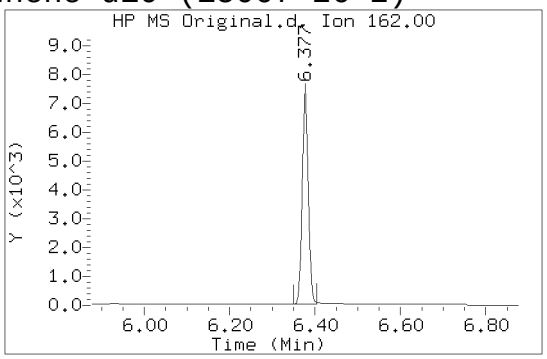
Data File : \\NAHSTWS005\Target\chem\SV6.i\220823.b\13.D
Inj Date : 23-AUG-2022 13:39
InstruID : SV6.i
LabSampID : LCSD-182674

Acenaphthene-d10 (15067-26-2)

Reason Code:

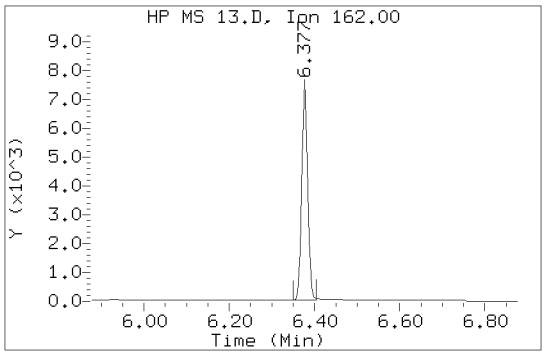
BEFORE

MASS
162
AREA
7300
HEIGHT
7640
23-Aug-2022
13:54
ALSHS
Server



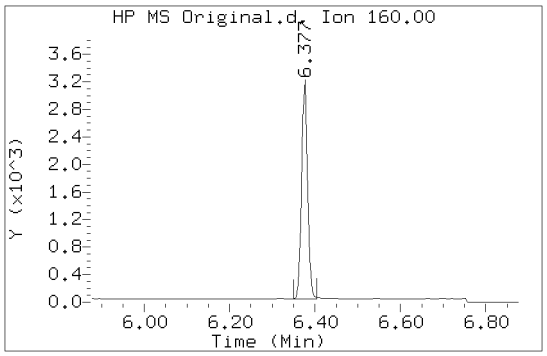
AFTER

MASS
162
AREA
7300
HEIGHT
7640
24-Aug-2022
10:25
ALSHS
S



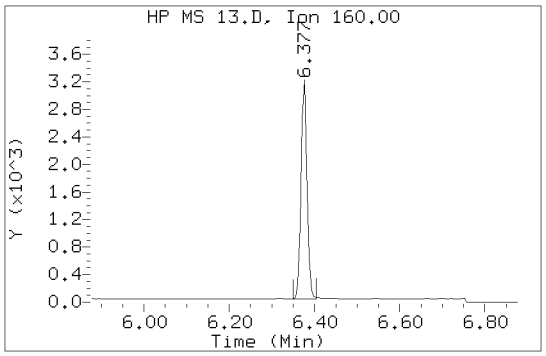
BEFORE

MASS
160
AREA
3134
HEIGHT
3180
23-Aug-2022
13:54
ALSHS
Server



AFTER

MASS
160
AREA
3134
HEIGHT
3180
24-Aug-2022
10:25
ALSHS
S

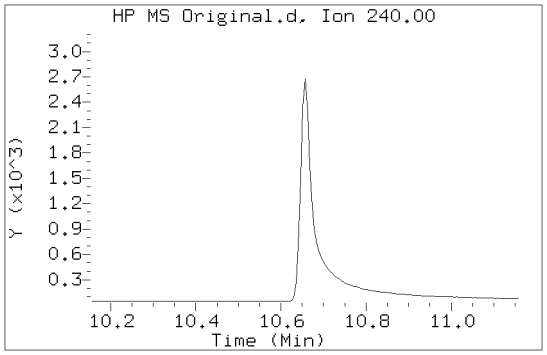


Chrysene-d12 (1719-03-5)

Reason Code:

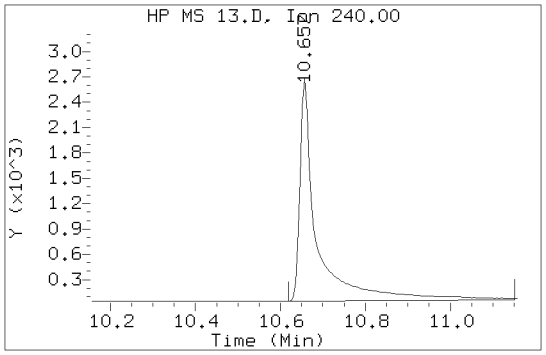
BEFORE

MASS
240
AREA
0
HEIGHT
0
23-Aug-2022
13:54
ALSHS
Server



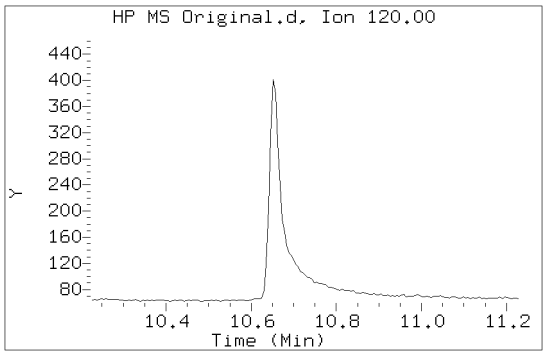
AFTER

MASS
240
AREA
7419
HEIGHT
2628
24-Aug-2022
10:25
ALSHS
S



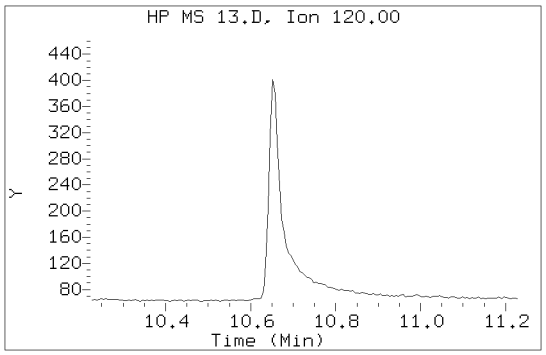
BEFORE

MASS
120
AREA
0
HEIGHT
0
23-Aug-2022
13:54
ALSHS
Server



AFTER

MASS
120
AREA
0
HEIGHT
0
24-Aug-2022
10:25
ALSHS
S



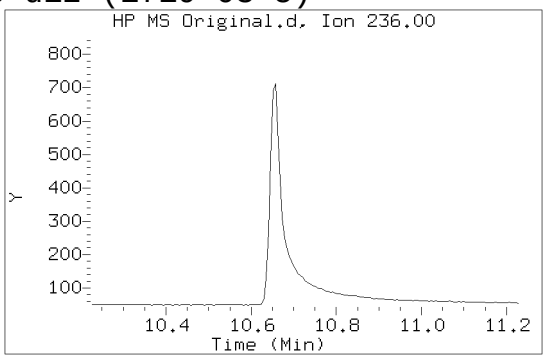
Data File : \\NAHSTWS005\Target\chem\SV6.i\220823.b\13.D
Inj Date : 23-AUG-2022 13:39
InstruID : SV6.i
LabSampID : LCSD-182674

Chrysene-d12 (1719-03-5)

Reason Code:

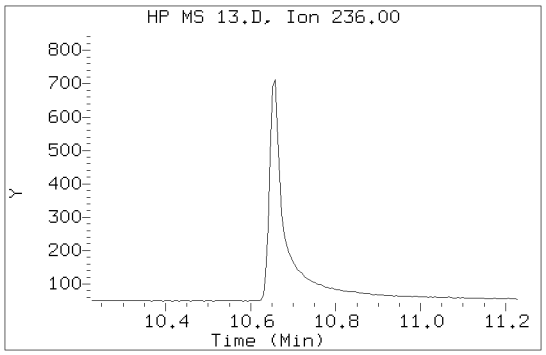
BEFORE

MASS
236
AREA
0
HEIGHT
0
23-Aug-2022
13:54
ALSHS
Server



AFTER

MASS
236
AREA
0
HEIGHT
0
24-Aug-2022
10:25
ALSHS
S

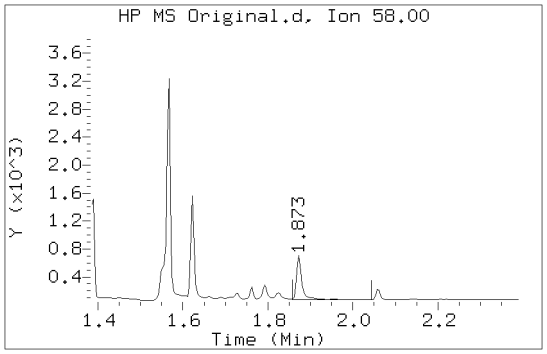


1,4-Dioxane ()

Reason Code:

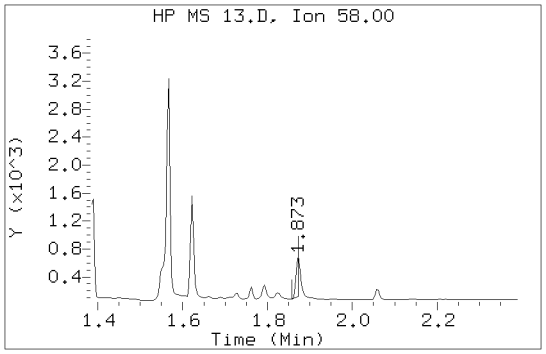
BEFORE

MASS
58
AREA
564
HEIGHT
634
23-Aug-2022
13:54
ALSHS
Server



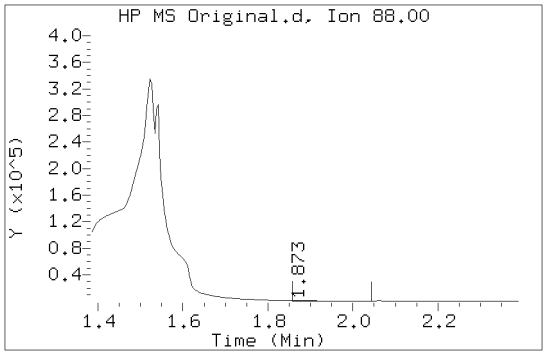
AFTER

MASS
58
AREA
273
HEIGHT
587
24-Aug-2022
10:25
ALSHS
S



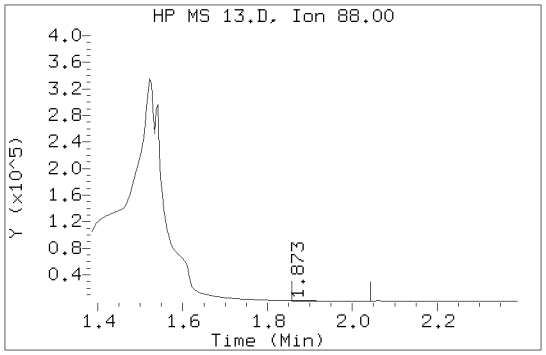
BEFORE

MASS
88
AREA
3203
HEIGHT
1234
23-Aug-2022
13:54
ALSHS
Server



AFTER

MASS
88
AREA
3203
HEIGHT
1234
24-Aug-2022
10:25
ALSHS
S

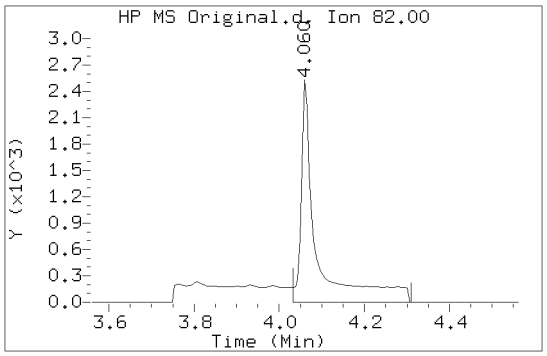


Nitrobenzene-d5 (4165-60-0)

Reason Code:

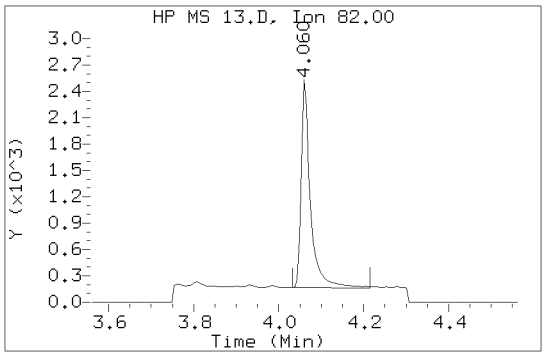
BEFORE

MASS
82
AREA
6260
HEIGHT
2530
23-Aug-2022
13:54
ALSHS
Server



AFTER

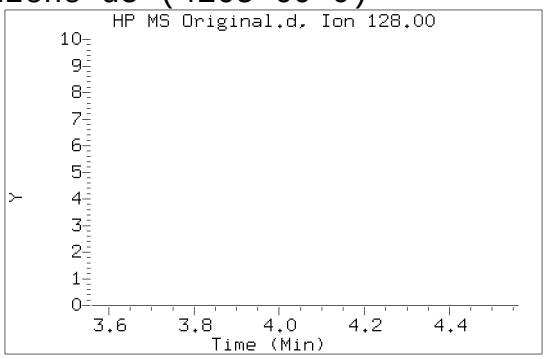
MASS
82
AREA
3571
HEIGHT
2364
24-Aug-2022
10:25
ALSHS
S



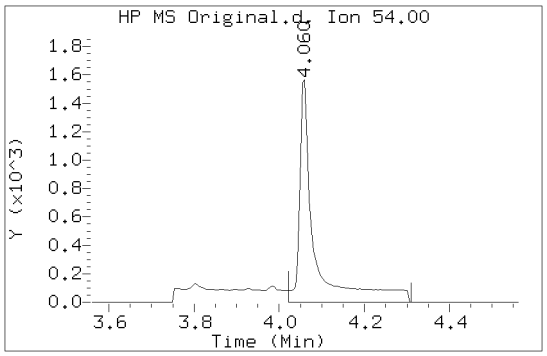
Data File : \\NAHSTWS005\Target\chem\SV6.i\220823.b\13.D
Inj Date : 23-AUG-2022 13:39
InstruID : SV6.i
LabSampID : LCSD-182674

Nitrobenzene-d5 (4165-60-0)

BEFORE
MASS
128
AREA
0
HEIGHT
0
23-Aug-2022
13:54
ALSHS
Server

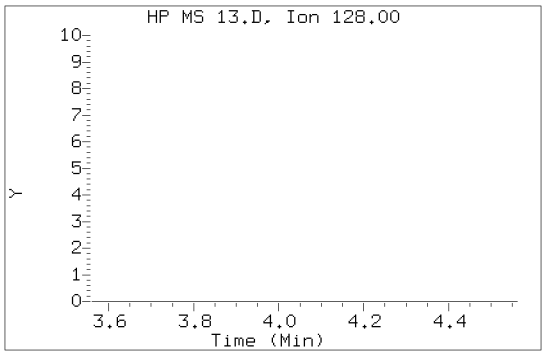


BEFORE
MASS
54
AREA
3759
HEIGHT
1565
23-Aug-2022
13:54
ALSHS
Server

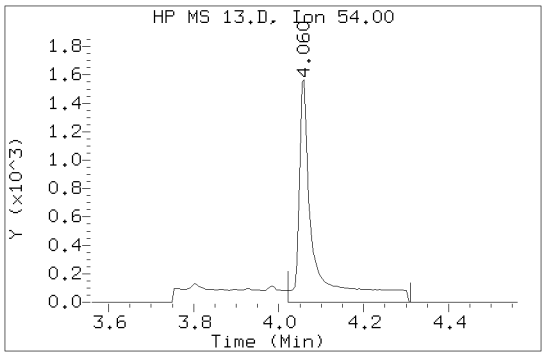


Reason Code:

AFTER
MASS
128
AREA
0
HEIGHT
0
24-Aug-2022
10:25
ALSHS
S

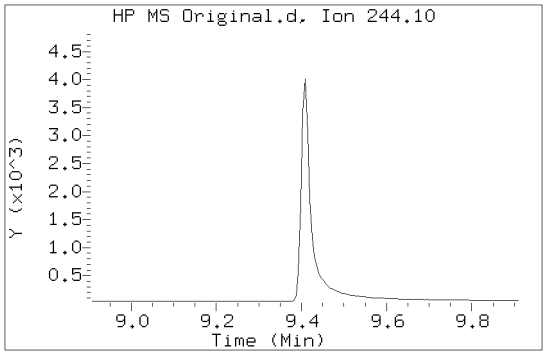


AFTER
MASS
54
AREA
3759
HEIGHT
1565
24-Aug-2022
10:25
ALSHS
S

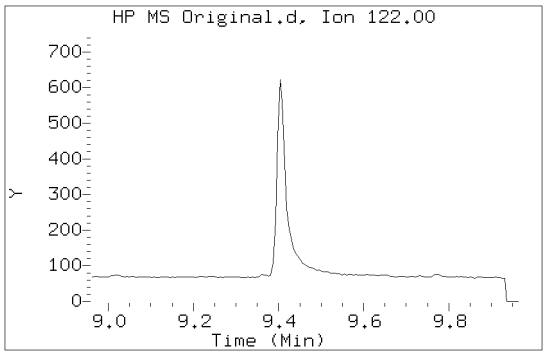


4-Terphenyl-d14 (1718-51-0)

BEFORE
MASS
244.1
AREA
0
HEIGHT
0
23-Aug-2022
13:54
ALSHS
Server

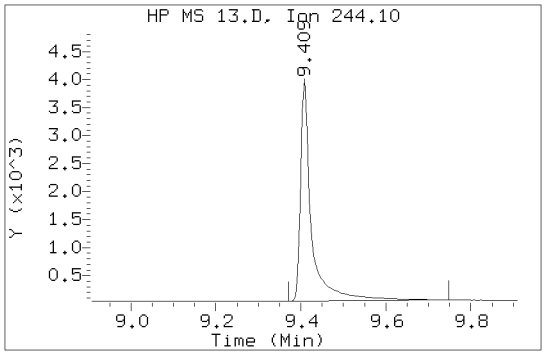


BEFORE
MASS
122
AREA
0
HEIGHT
0
23-Aug-2022
13:54
ALSHS
Server

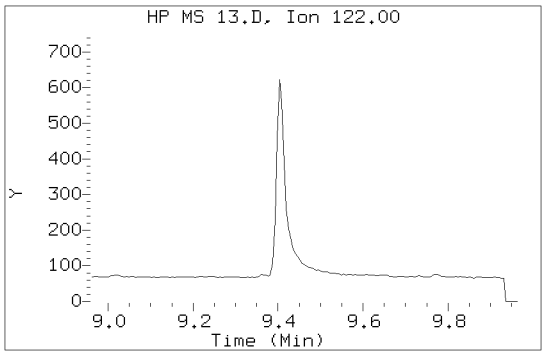


Reason Code:

AFTER
MASS
244.1
AREA
7027
HEIGHT
3964
24-Aug-2022
10:25
ALSHS
S



AFTER
MASS
122
AREA
0
HEIGHT
0
24-Aug-2022
10:25
ALSHS
S

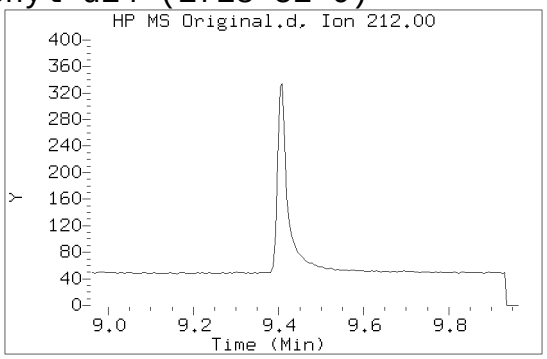


Data File : \\NAHSTWS005\Target\chem\SV6.i\220823.b\13.D
Inj Date : 23-AUG-2022 13:39
InstruID : SV6.i
LabSampID : LCSD-182674

4-Terphenyl-d14 (1718-51-0)

BEFORE

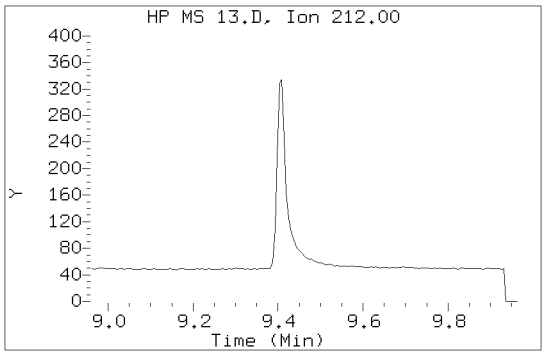
MASS
212
AREA
0
HEIGHT
0
23-Aug-2022
13:54
ALSHS
Server



AFTER

MASS
212
AREA
0
HEIGHT
0
24-Aug-2022
10:25
ALSHS
S

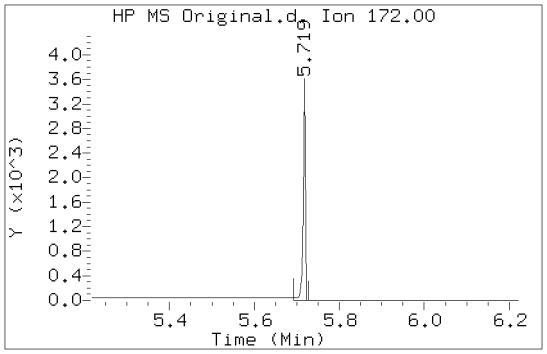
Reason Code:



2-Fluorobiphenyl (321-60-8)

BEFORE

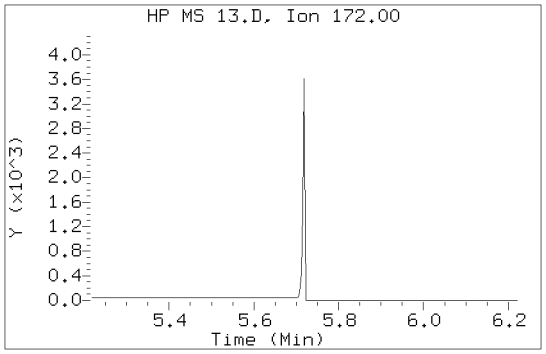
MASS
172
AREA
1357
HEIGHT
3611
23-Aug-2022
13:54
ALSHS
Server



AFTER

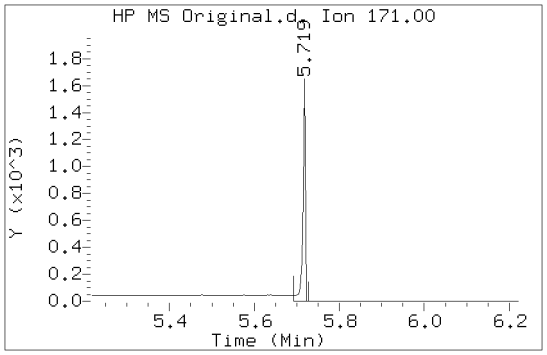
MASS
172
AREA
4371
HEIGHT
3654
24-Aug-2022
10:25
ALSHS
S

Reason Code:



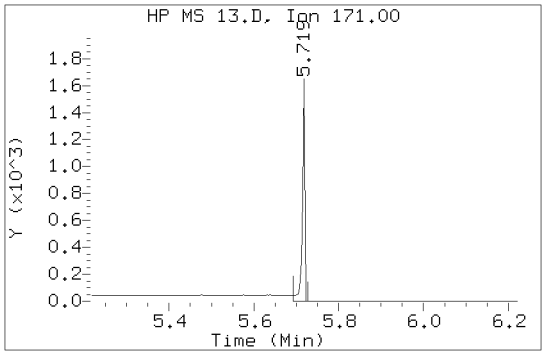
BEFORE

MASS
171
AREA
701
HEIGHT
1650
23-Aug-2022
13:54
ALSHS
Server



AFTER

MASS
171
AREA
701
HEIGHT
1650
24-Aug-2022
10:25
ALSHS
S



Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\31.D Page 1
Report Date: 25-Aug-2022 16:19

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220823.b\31.D
Lab Smp Id: 1 4DIOX-CCV Client Smp ID: 1 4DIOX-CCV
Inj Date : 23-AUG-2022 19:03
Operator : LG Inst ID: SV6.i
Smp Info : 1 4DIOX-0.08;1 4DIOX-0.08;2
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220823.b\DXSIM.m
Meth Date : 25-Aug-2022 16:19 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 12:56 Cal File: 009.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)	
* 20 1,4-Dichlorobenzene-d4	152	3.609	3.609	(1.000)	5472	0.10000		(aM)
* 45 Naphthalene-d8	136	4.723	4.723	(1.000)	10048	0.10000		(M)
$ 33 Nitrobenzene-d5	82	4.113	4.113	(0.871)	2568	0.08000	0.07667	(QM)
* 86 Acenaphthene-d10	164	6.392	6.392	(1.000)	3549	0.10000		(QM)
$ 69 2-Fluorobiphenyl	172	5.718	5.718	(0.895)	2241	0.08000	0.04057	(QM)
* 126 Phenanthrene-d10	188	7.849	7.849	(1.000)	10631	0.10000		
* 182 Chrysene-d12	240	10.678	10.678	(1.000)	6119	0.10000		(M)
$ 158 4-Terphenyl-d14	244	9.425	9.425	(0.883)	6743	0.08000	0.05861	(M)
* 198 Perylene-d12	264	12.751	12.751	(1.000)	3909	0.10000		
1 1,4-Dioxane	58	1.884	1.884	(0.522)	186	0.08000	0.08280	(aQM)

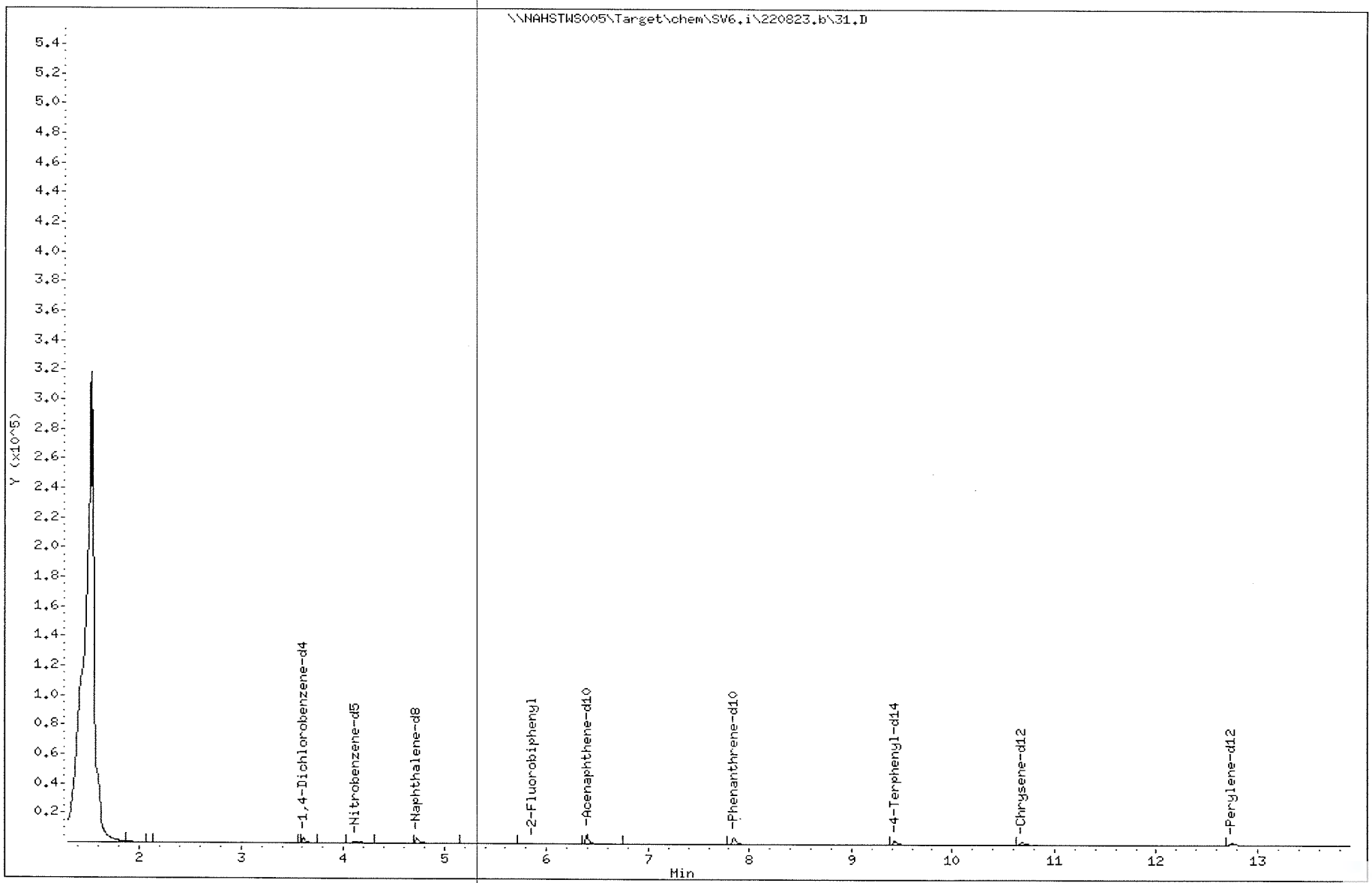
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

01140192

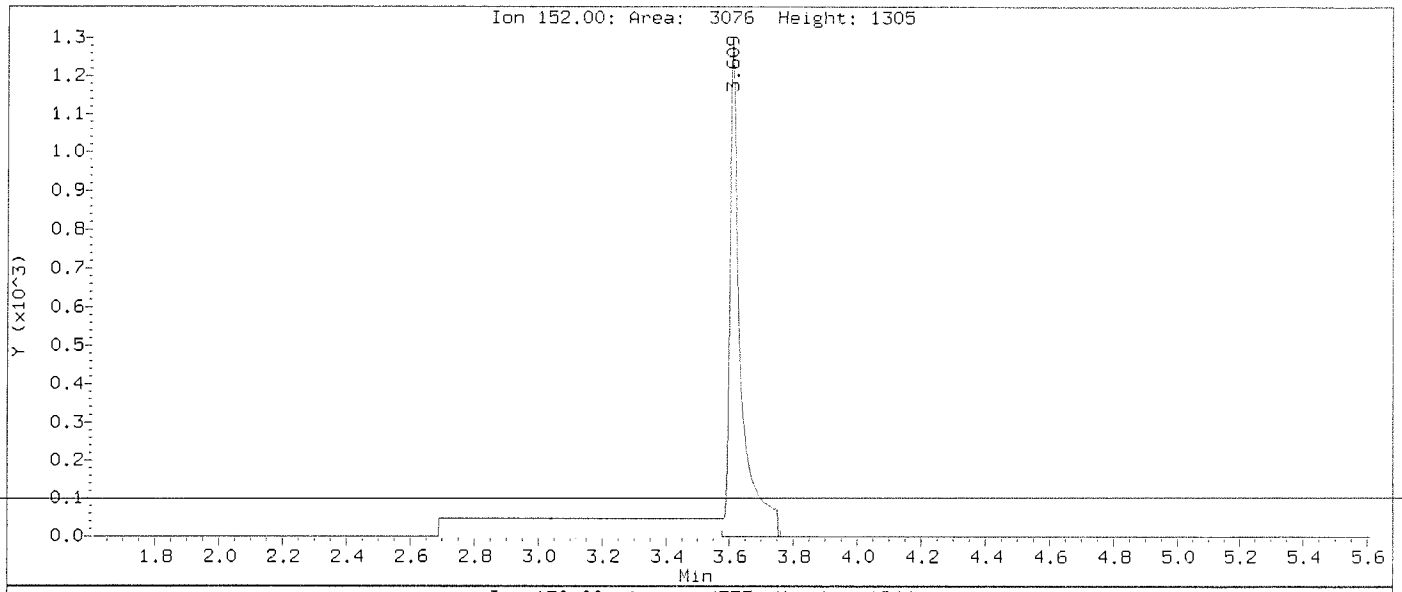
Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\31.D
Date : 23-AUG-2022 19:03
Client ID: 1 4DIOX-CCV
Sample Info: 1 4DIOX-0.08;1 4DIOX-0.08;2
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

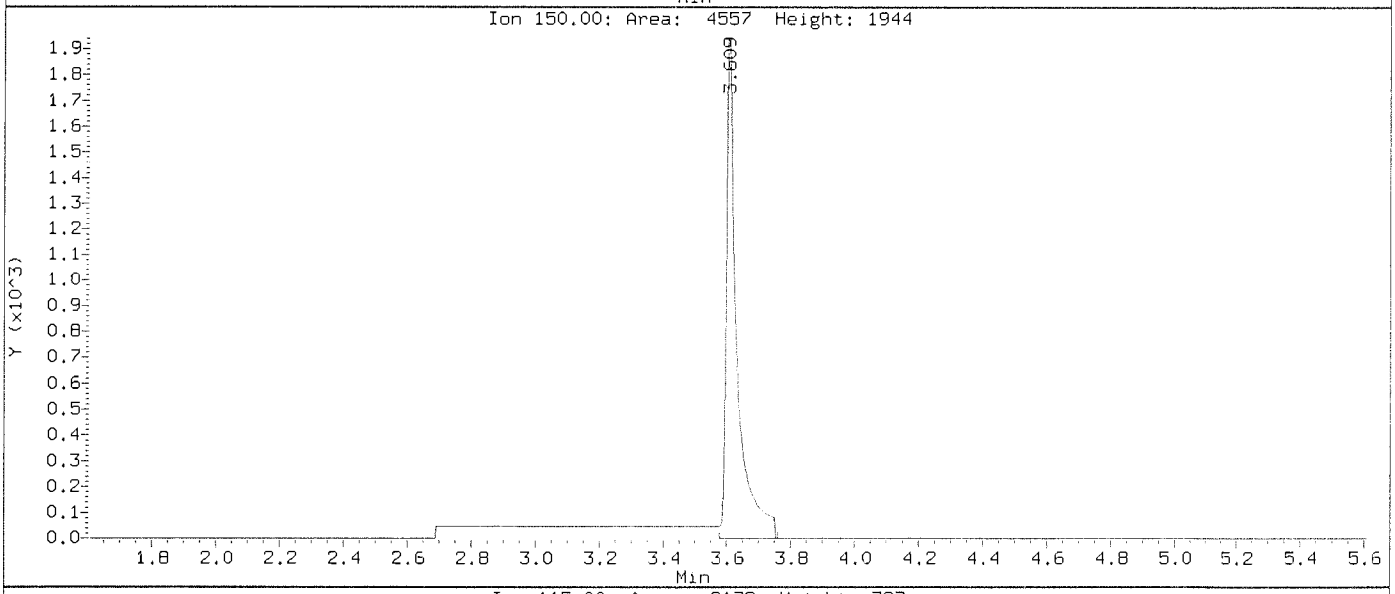
Instrument: SV6.i
Operator: LG
Column diameter: 0.28

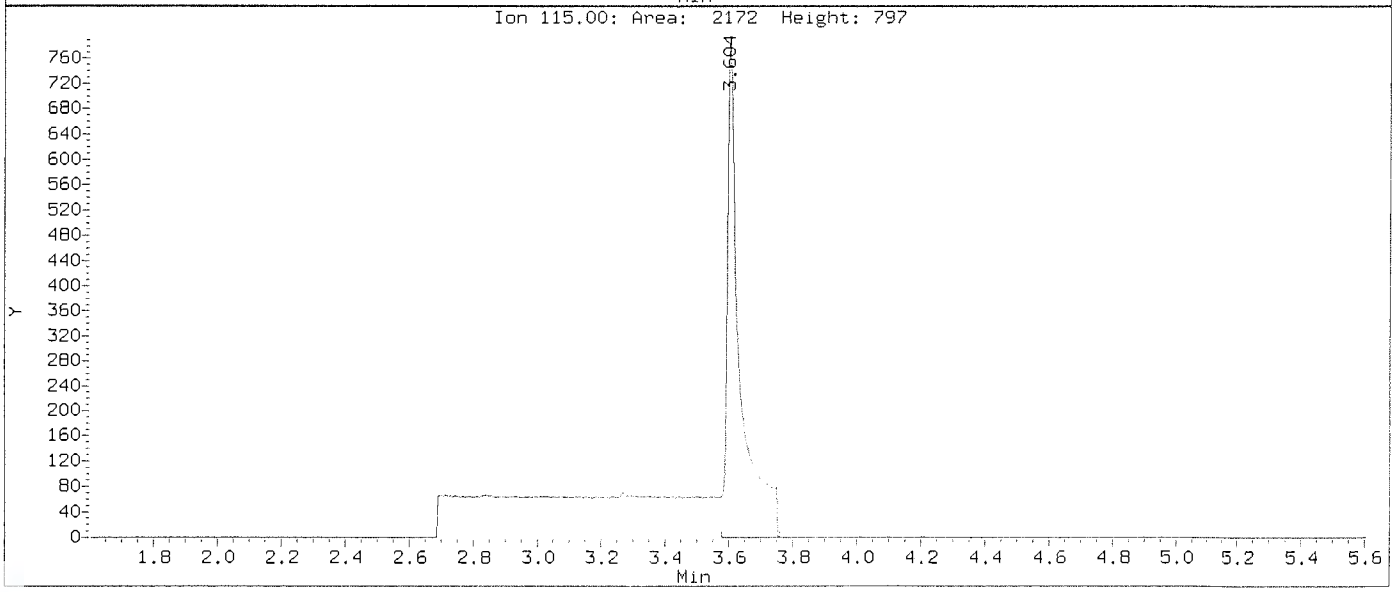


Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\Before\31.D
Injection Date: 23-AUG-2022 19:03
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

Compound: 1,4-Dichlorobenzene-d4
CAS Number: 3855-82-1

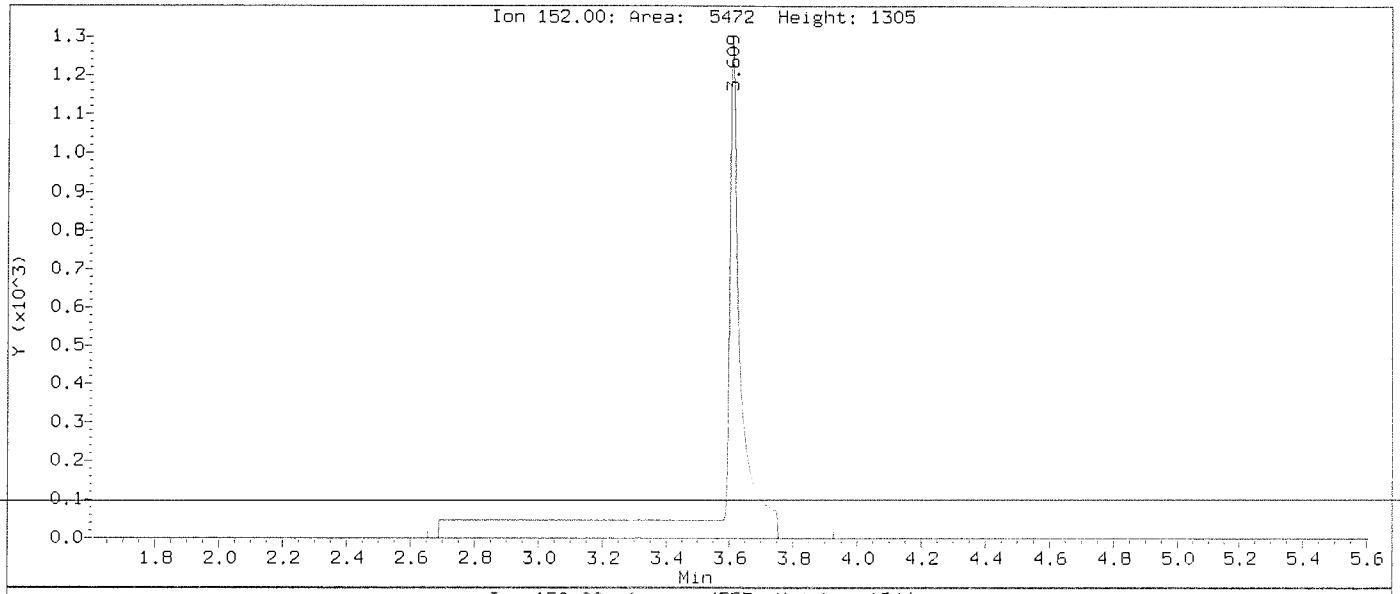


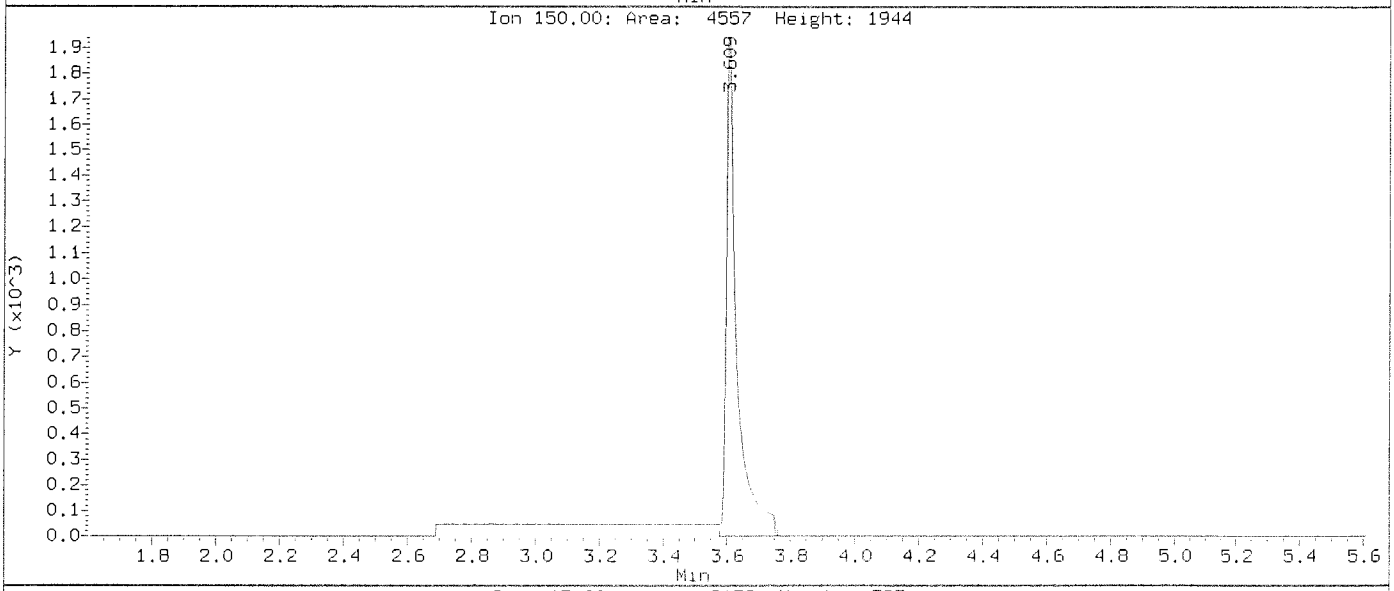


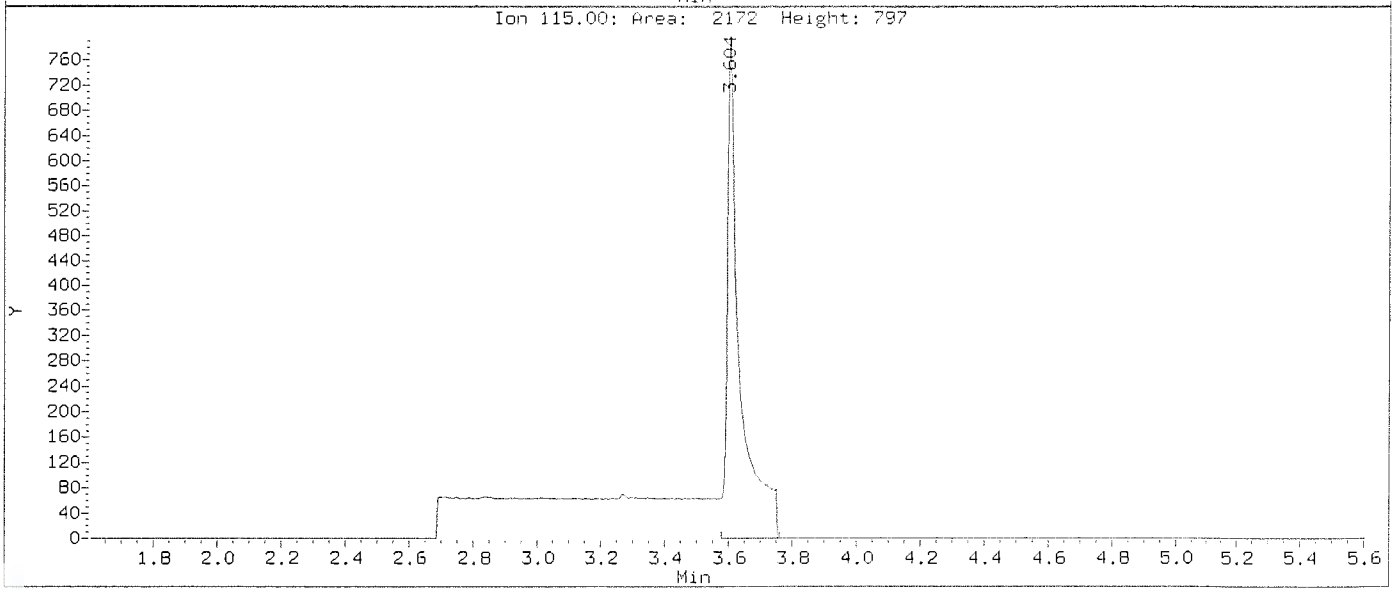


Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\31.D
Injection Date: 23-AUG-2022 19:03
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

Compound: 1,4-Dichlorobenzene-d4
CAS Number: 3855-82-1

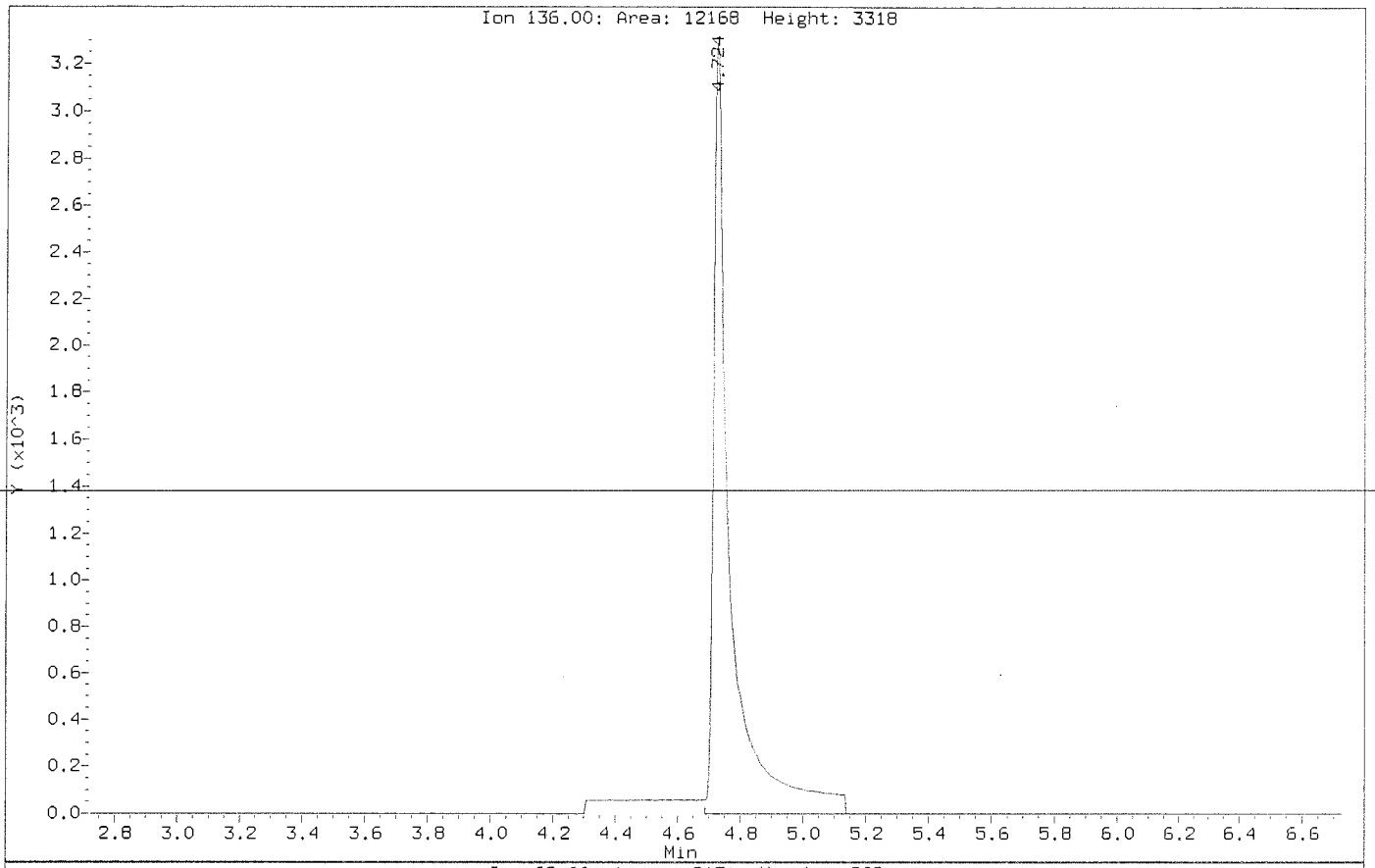


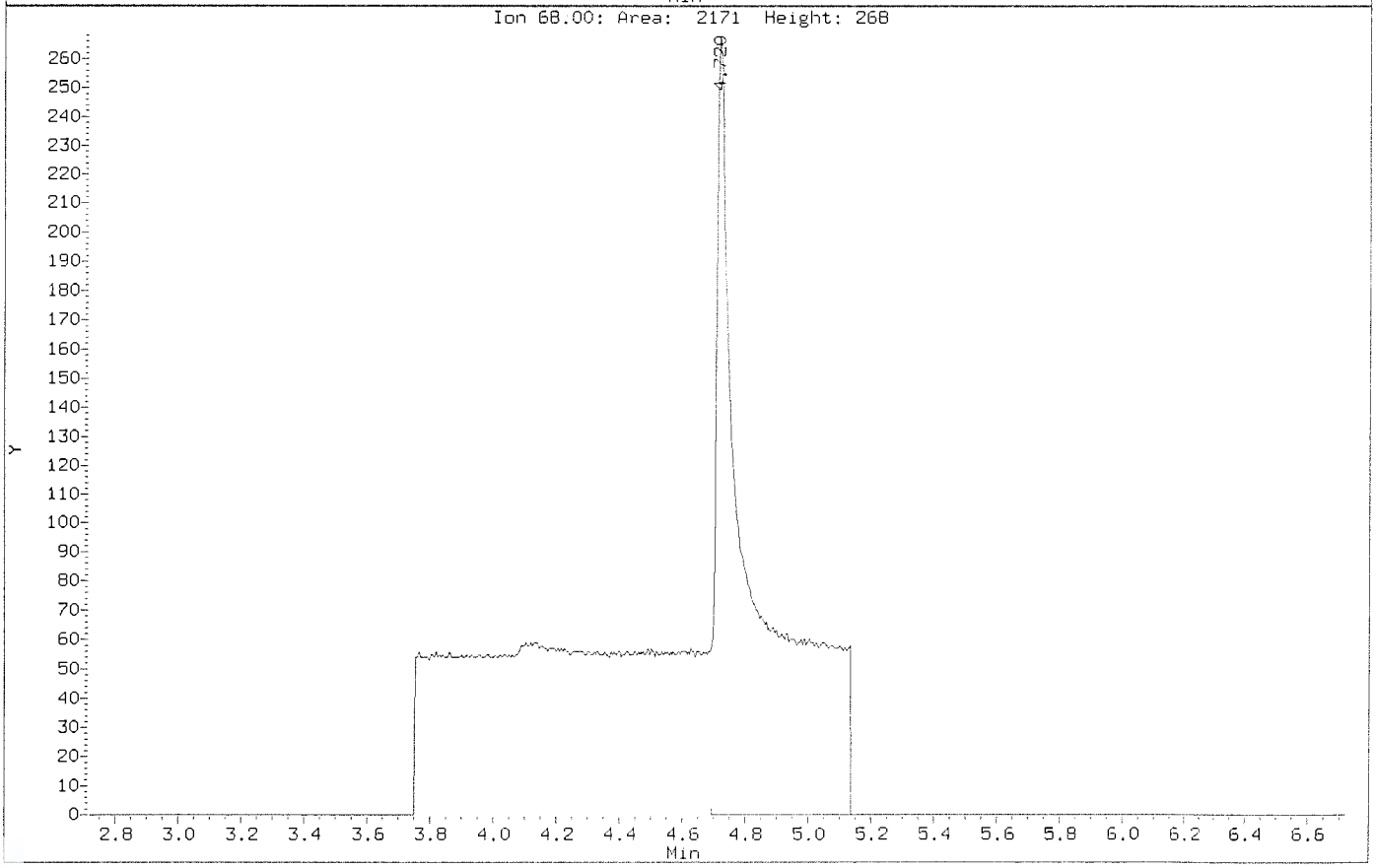




Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\Before\31.D
Injection Date: 23-AUG-2022 19:03
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

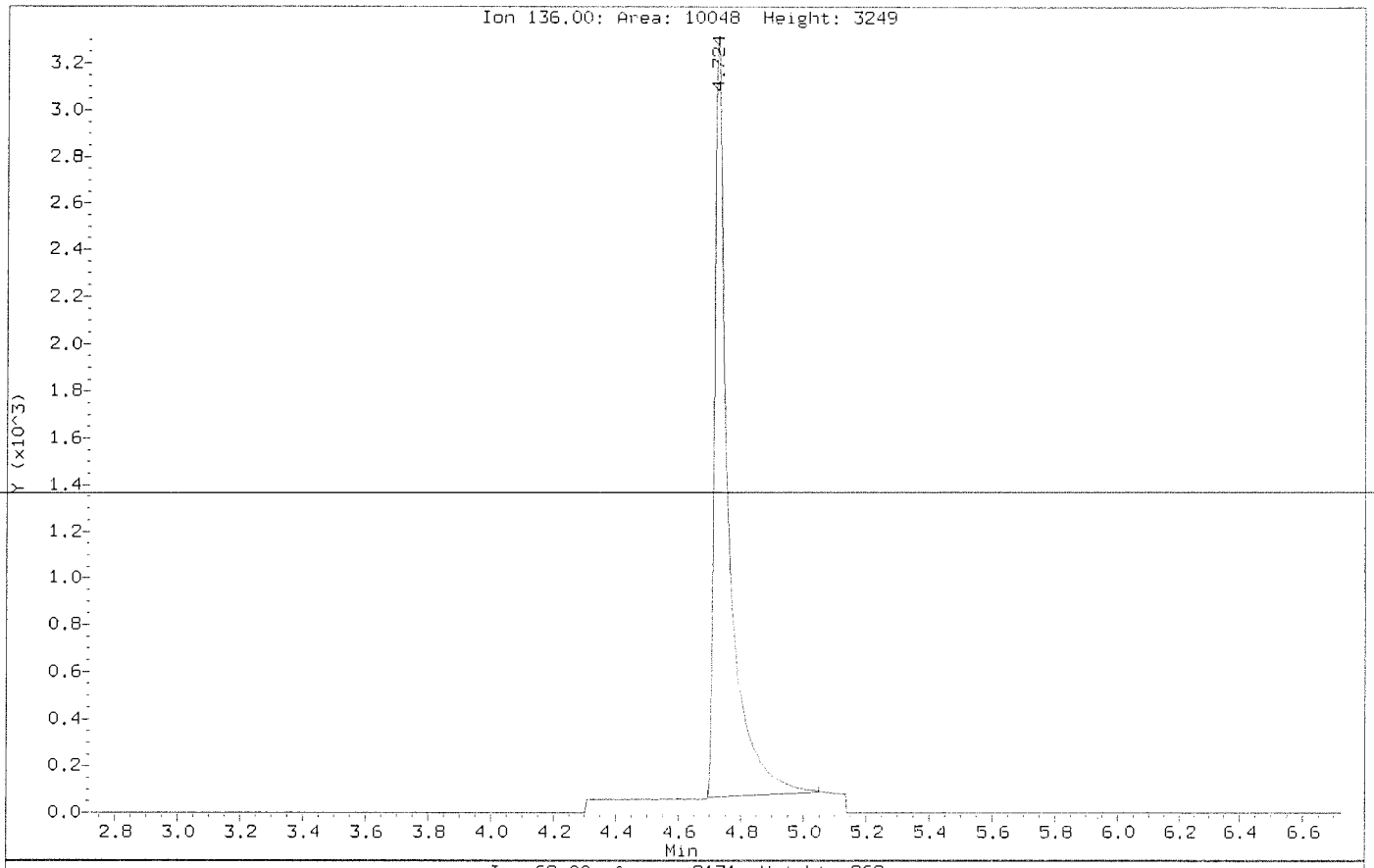
Compound: Naphthalene-d8
CAS Number: 1146-65-2

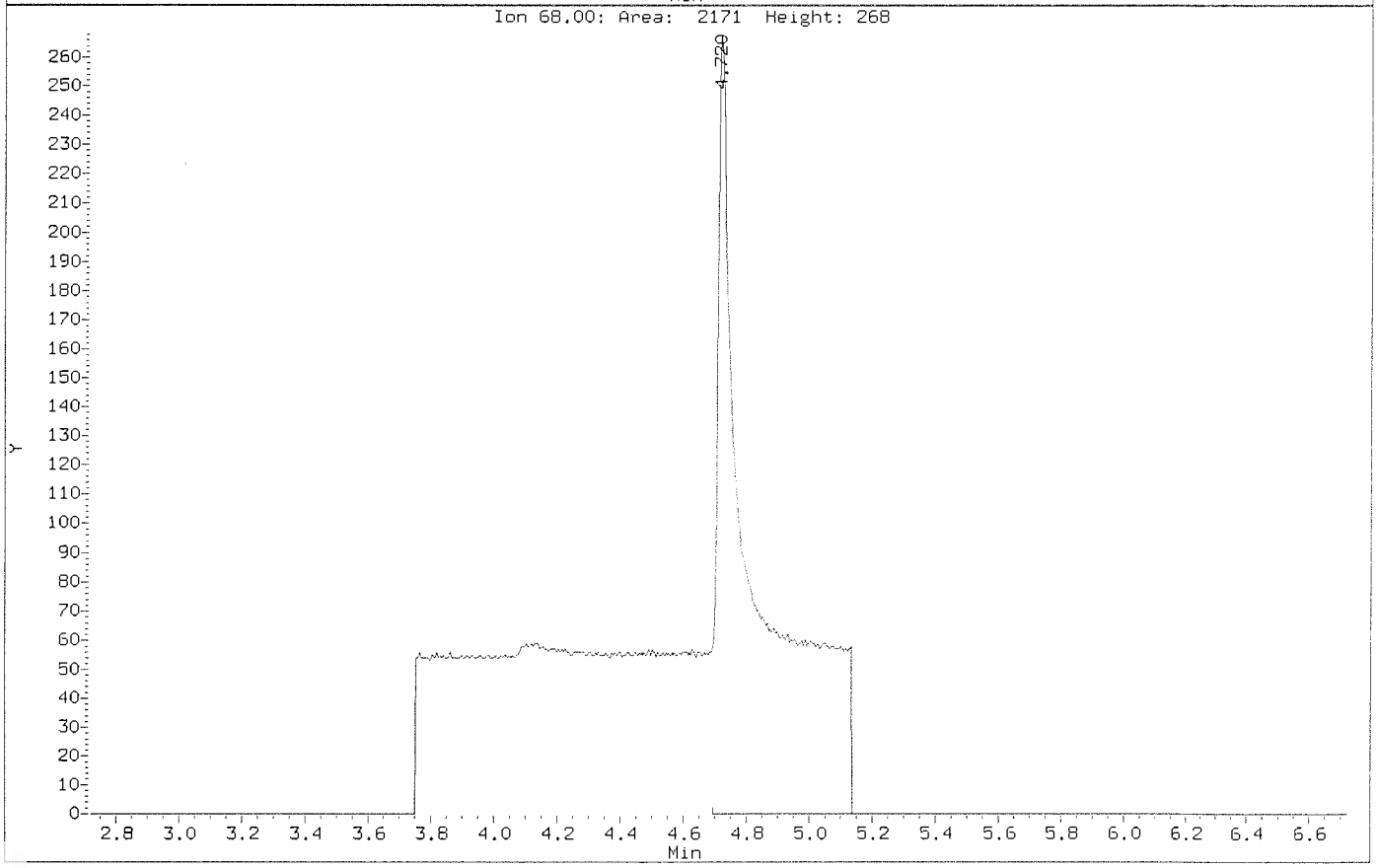




Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\31.D
Injection Date: 23-AUG-2022 19:03
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

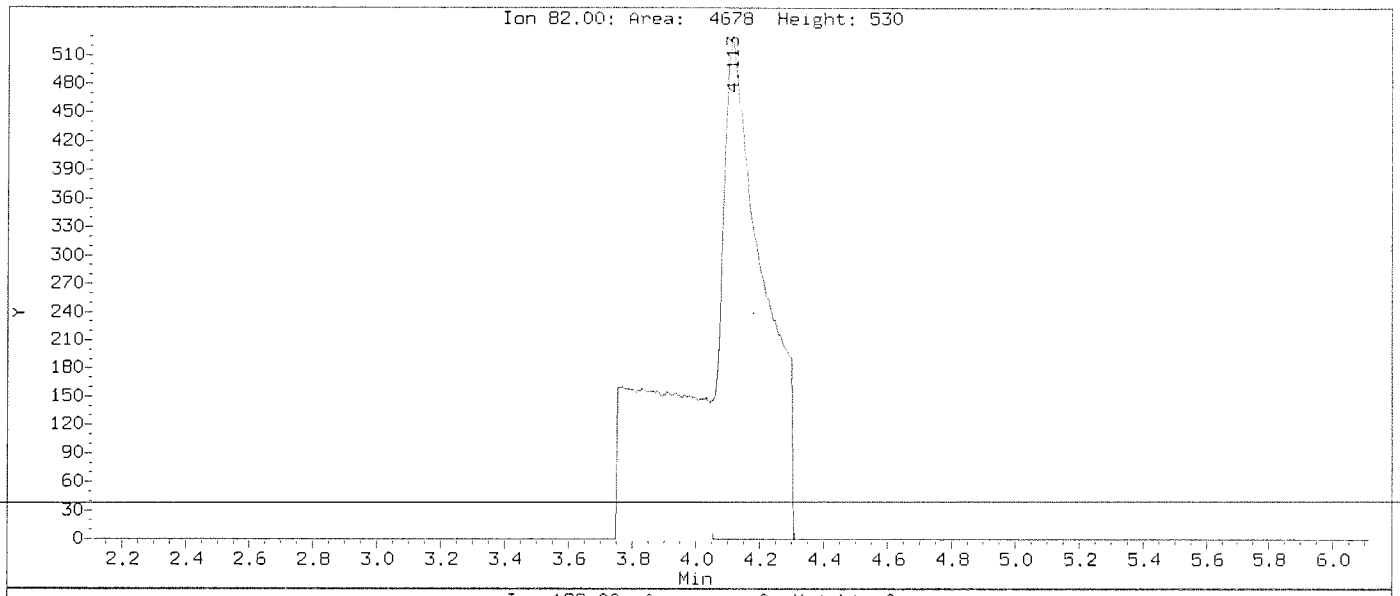
Compound: Naphthalene-d8
CAS Number: 1146-65-2

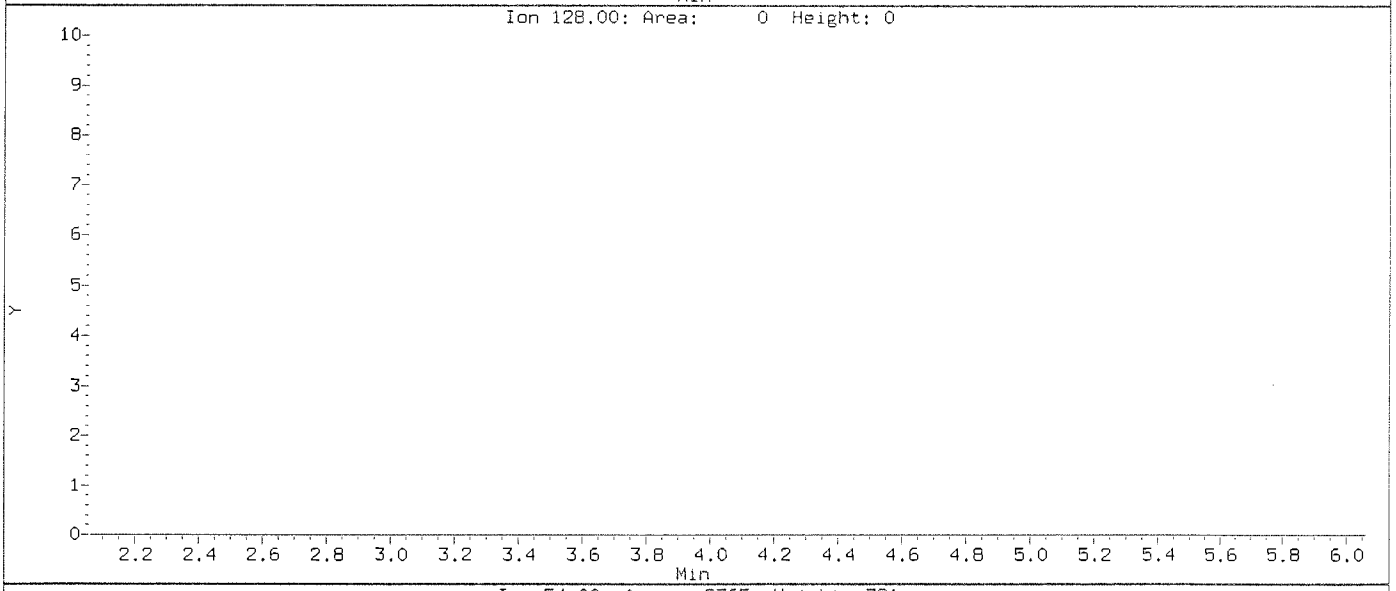


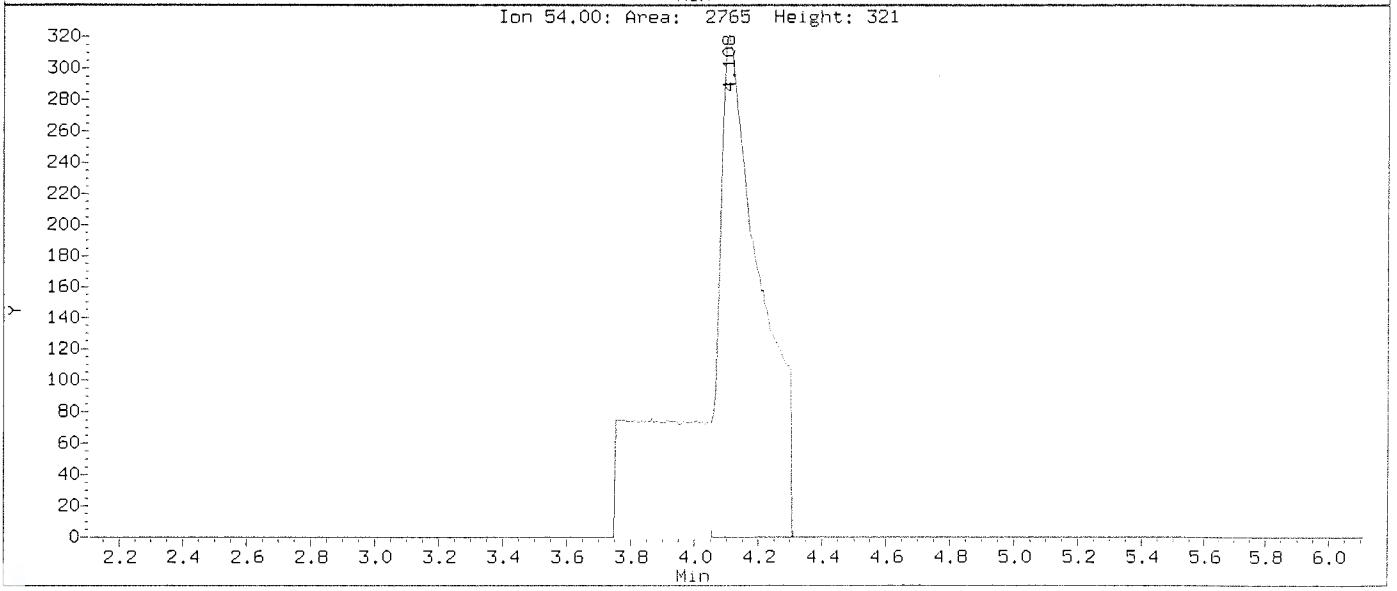


Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\Before\31.D
Injection Date: 23-AUG-2022 19:03
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

Compound: Nitrobenzene-d5
CAS Number: 4165-60-0

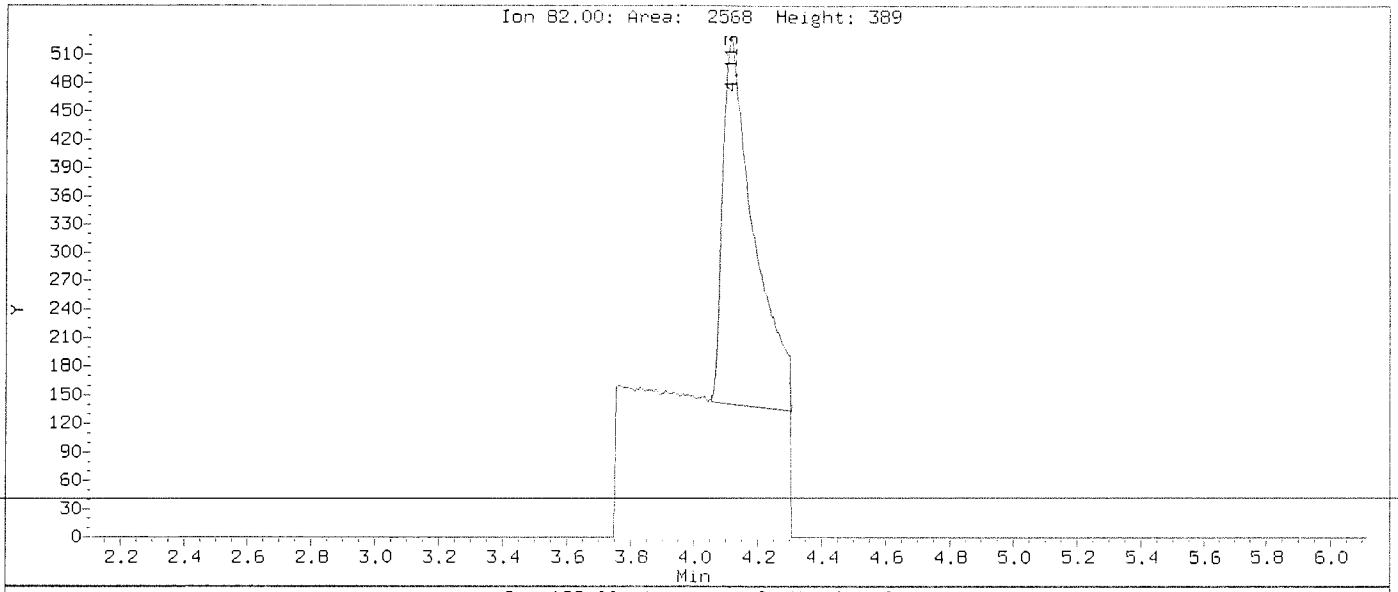


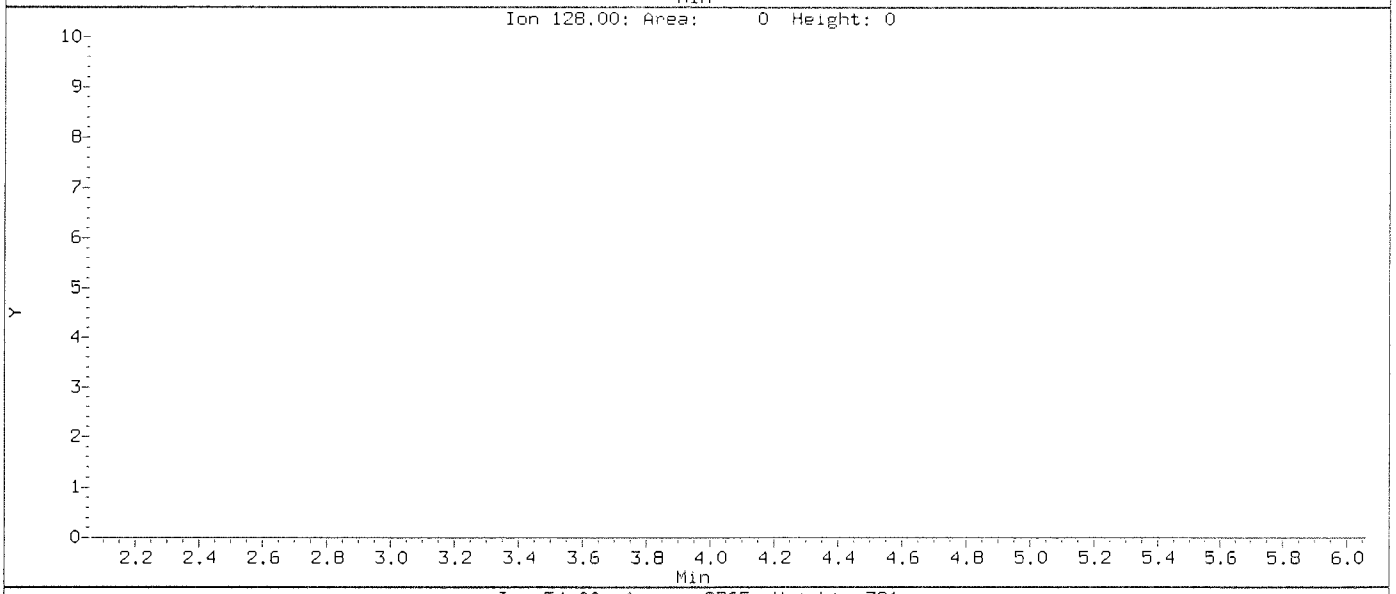


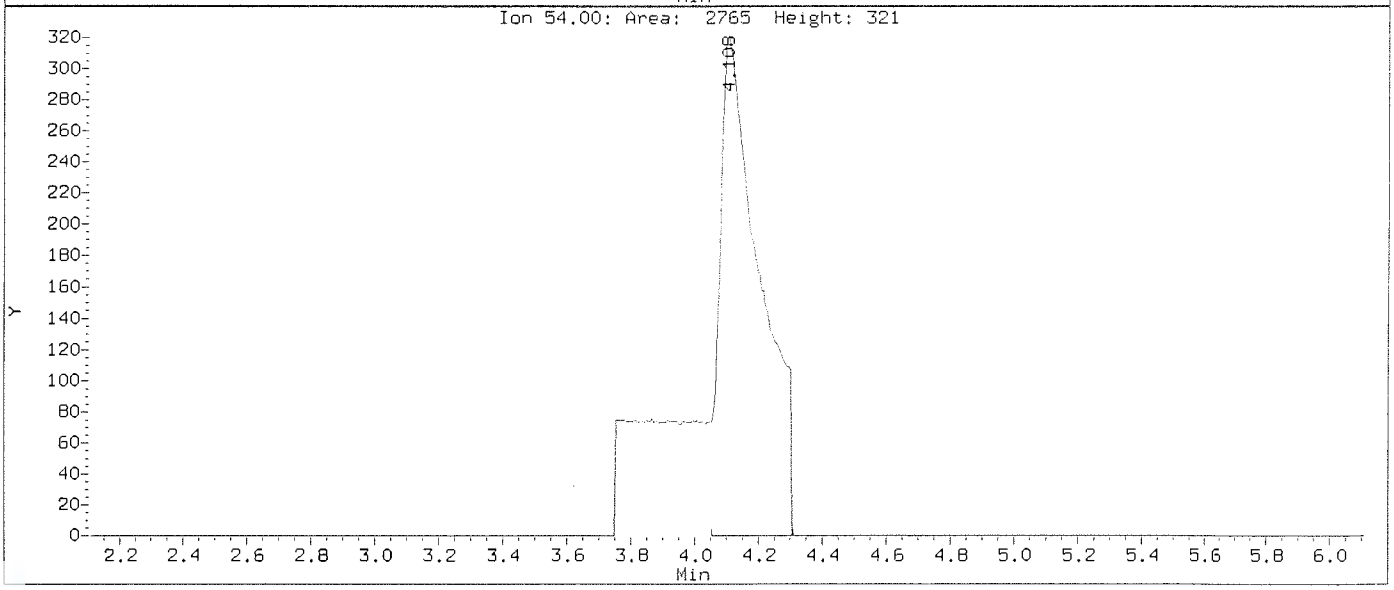


Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\31.D
Injection Date: 23-AUG-2022 19:03
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

Compound: Nitrobenzene-d5
CAS Number: 4165-60-0

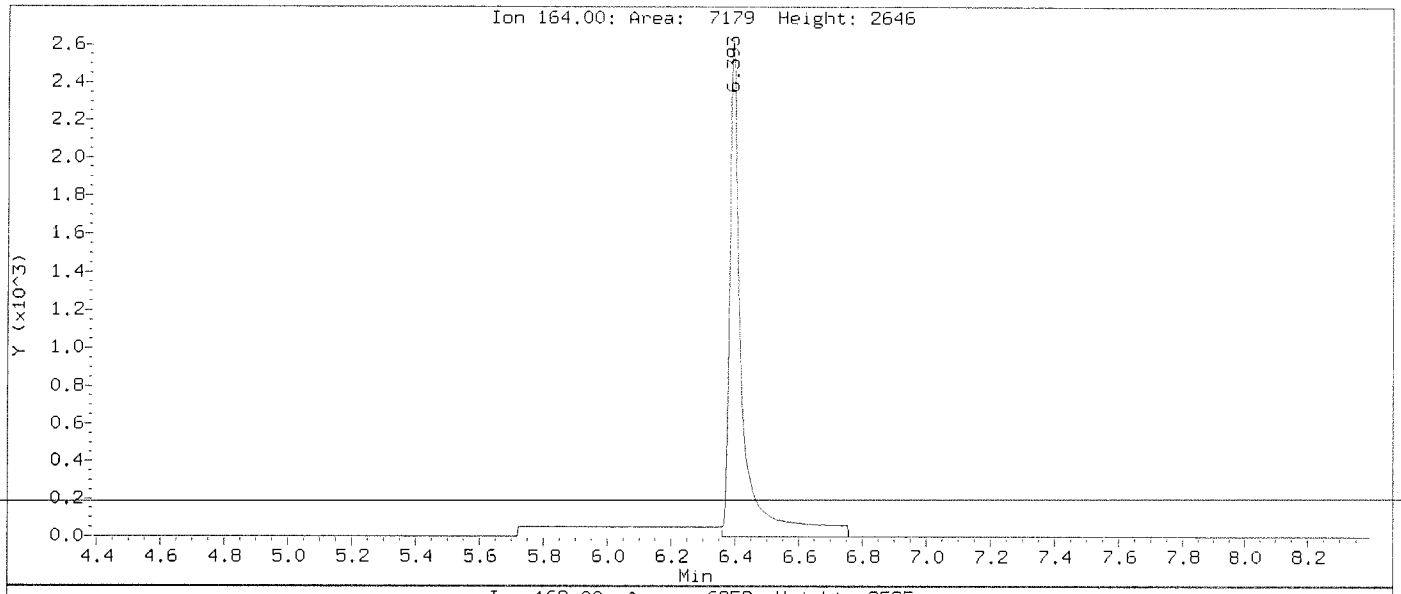


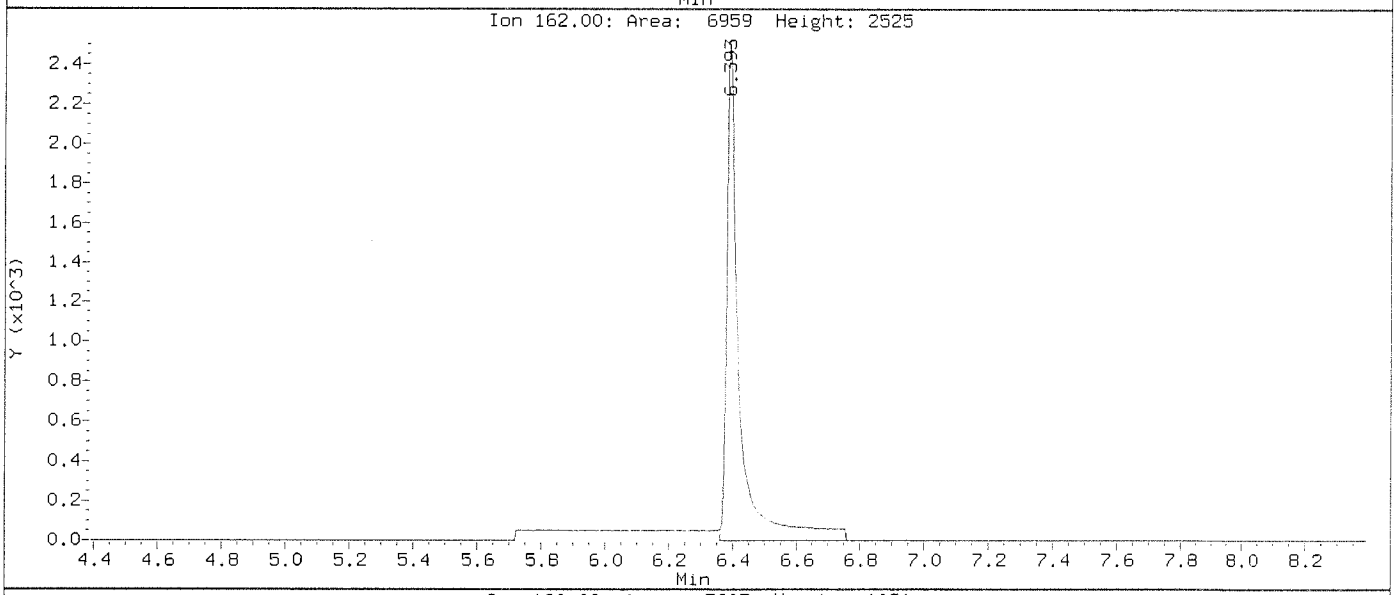


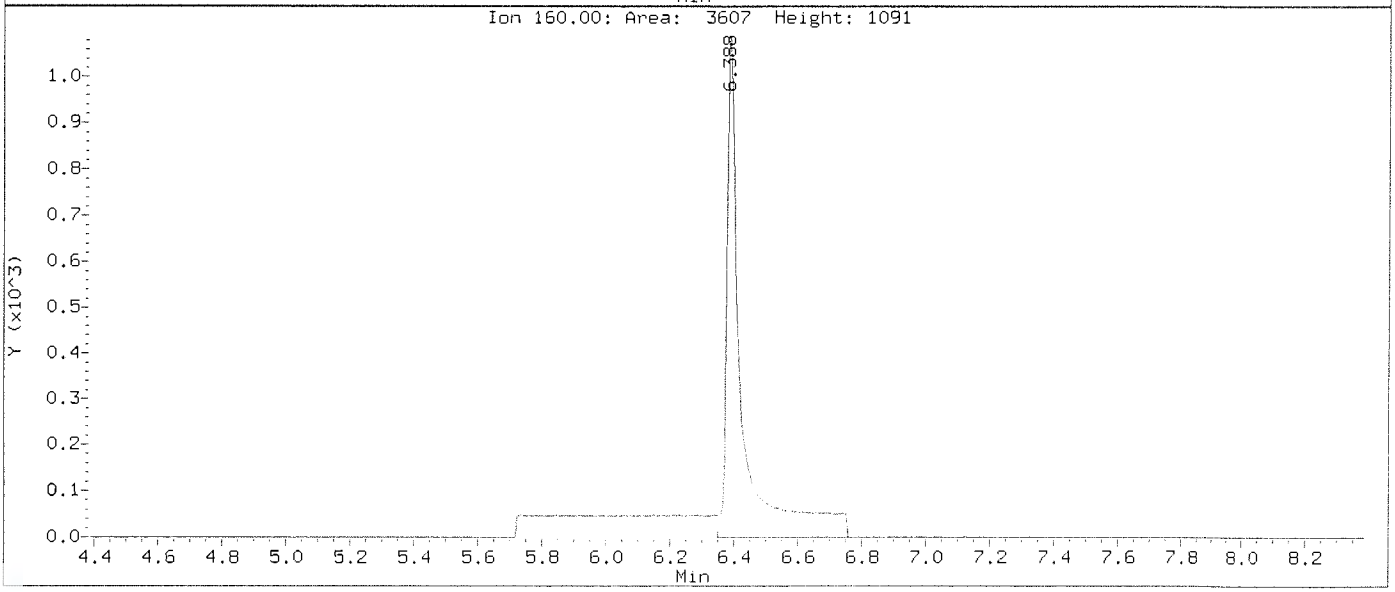


Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\Before\31.D
Injection Date: 23-AUG-2022 19:03
Instrument: SV6.i
Client Sample ID: i 4DIOX-CCV

Compound: Acenaphthene-d10
CAS Number: 15067-26-2

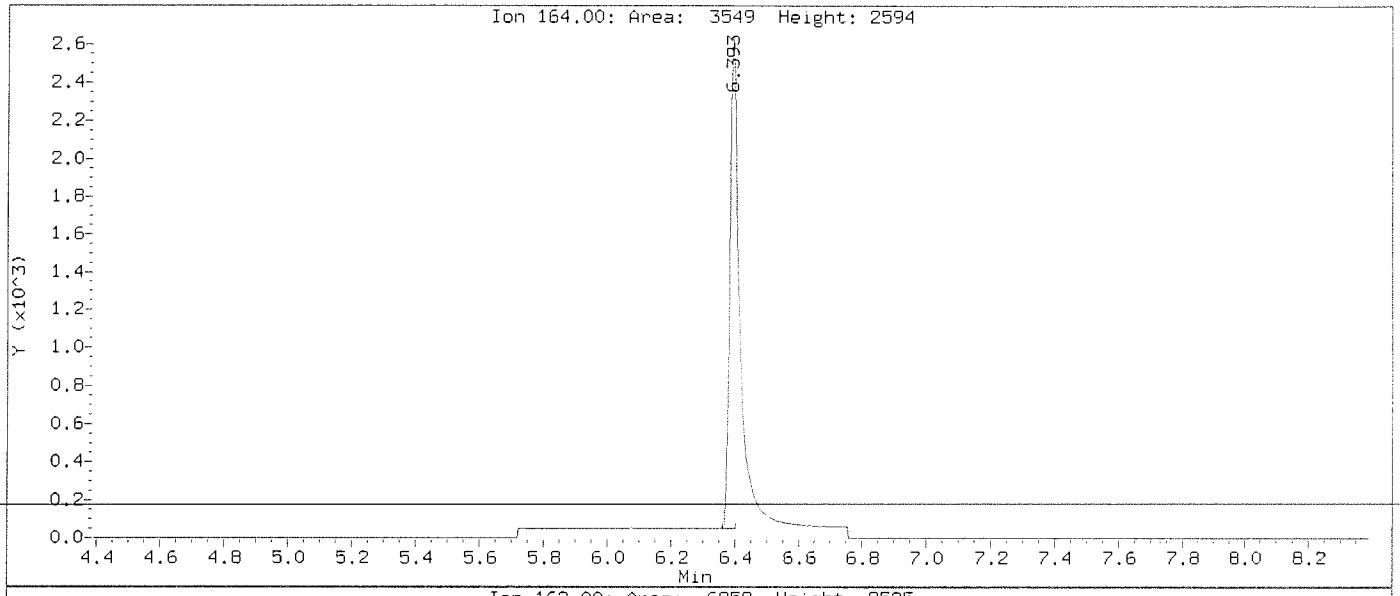


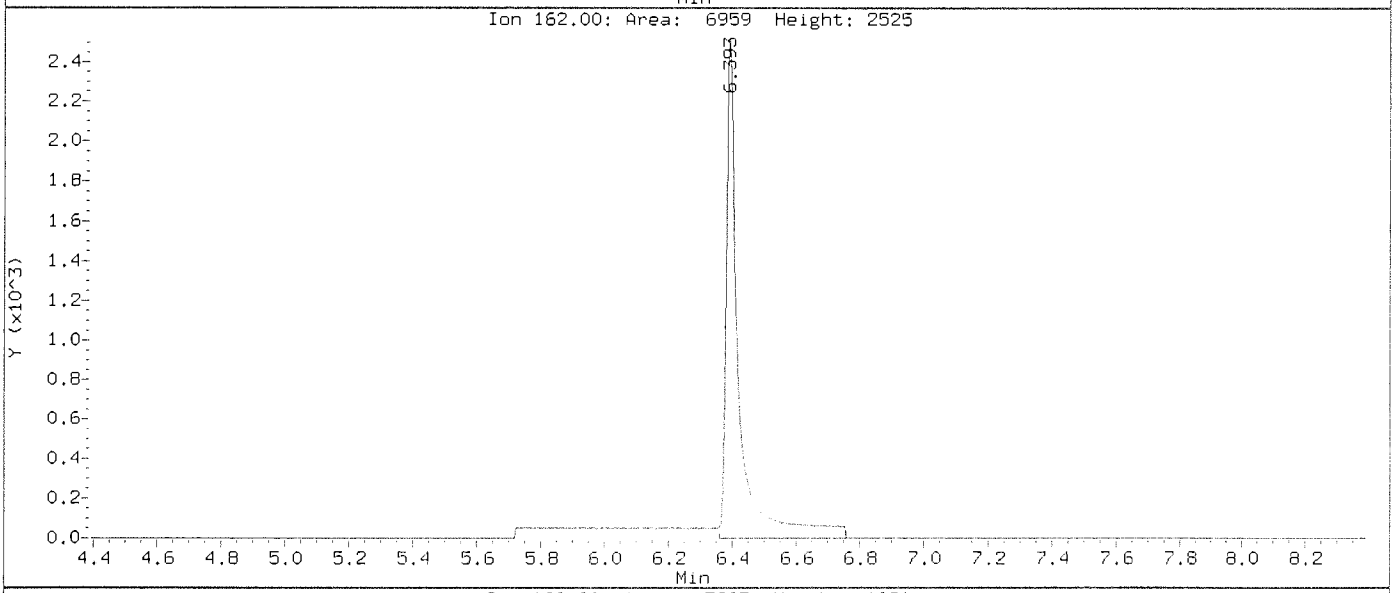


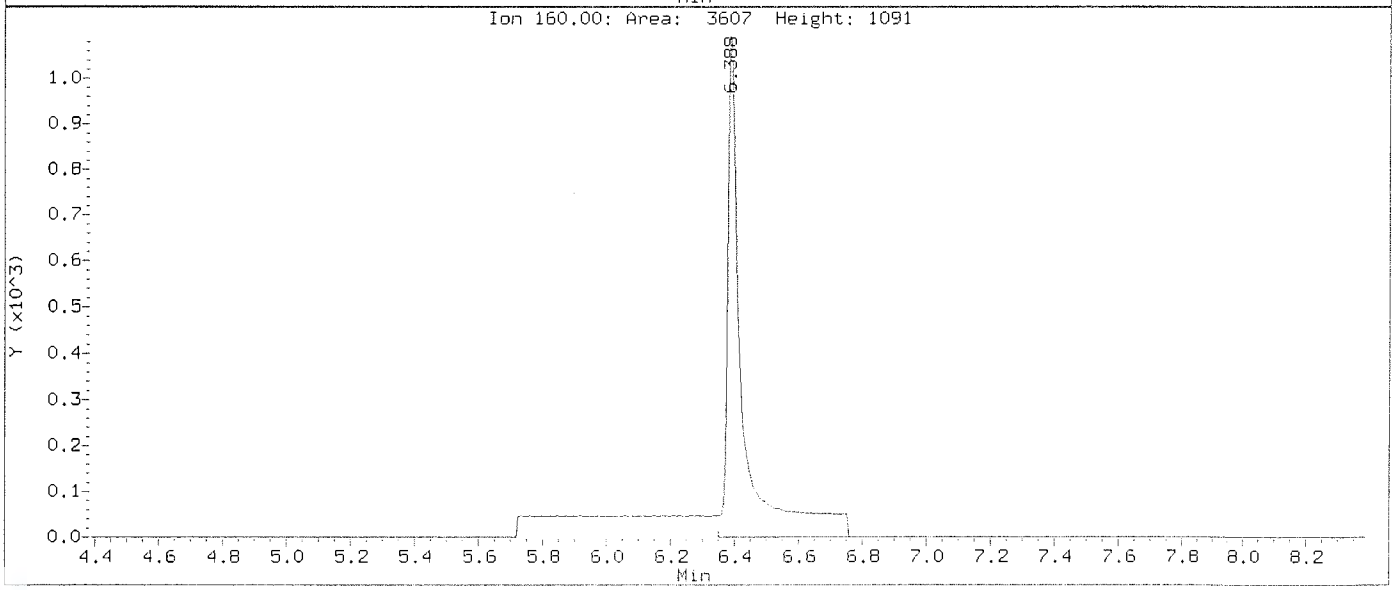


Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\31.D
Injection Date: 23-AUG-2022 19:03
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

Compound: Acenaphthene-d10
CAS Number: 15067-26-2

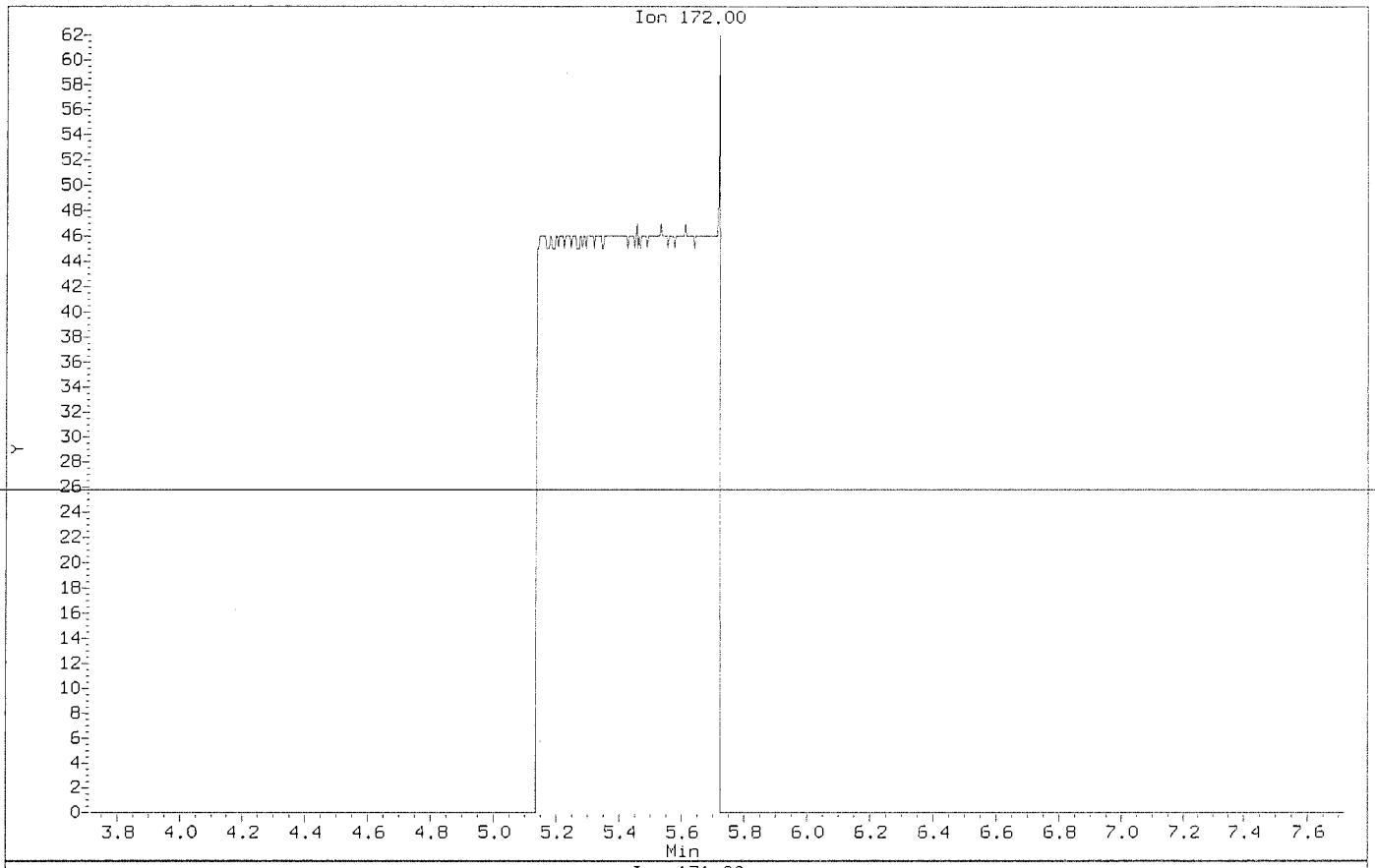


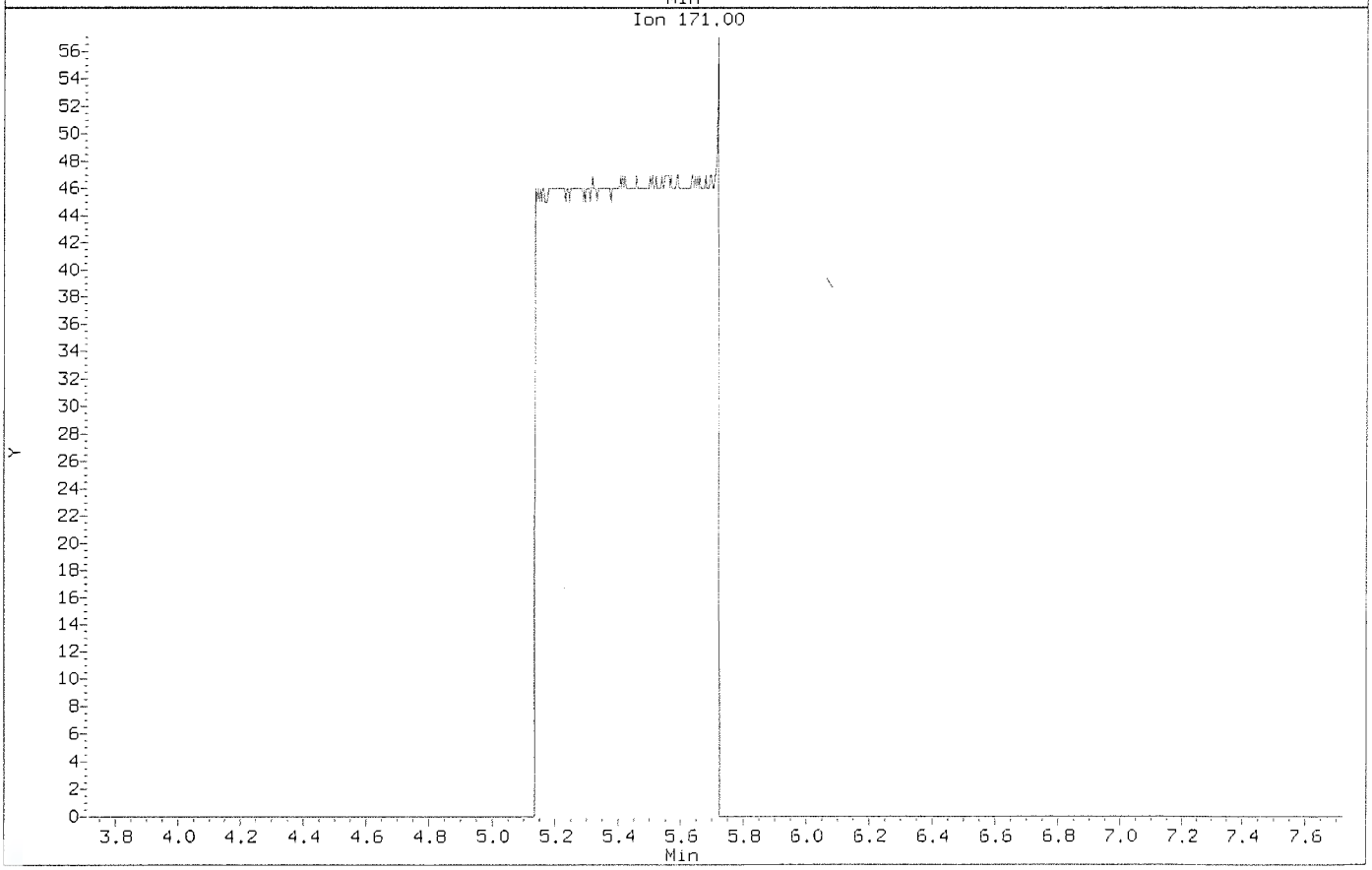




Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\Before\31.D
Injection Date: 23-AUG-2022 19:03
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

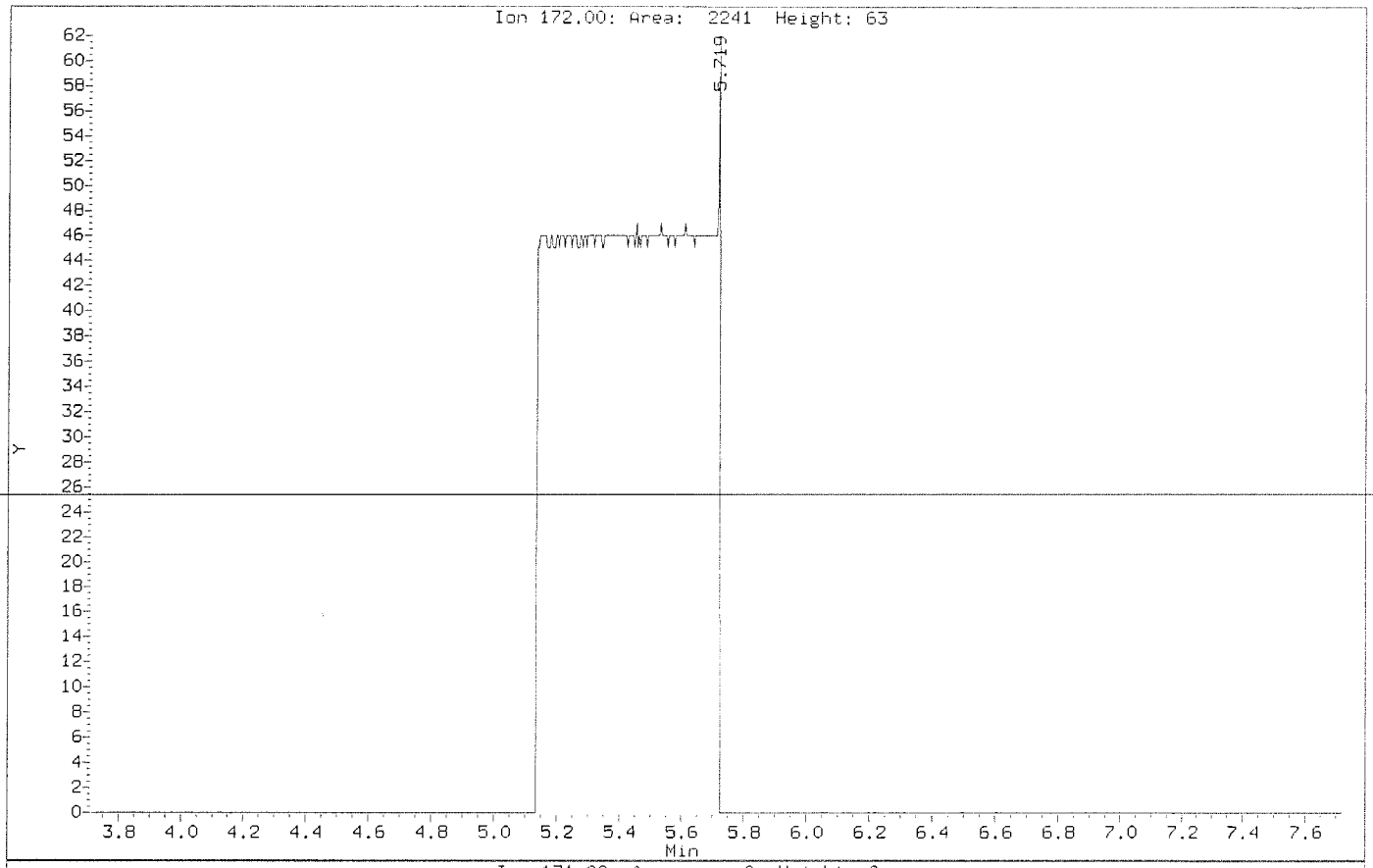
Compound: 2-Fluorobiphenyl
CAS Number: 321-60-8

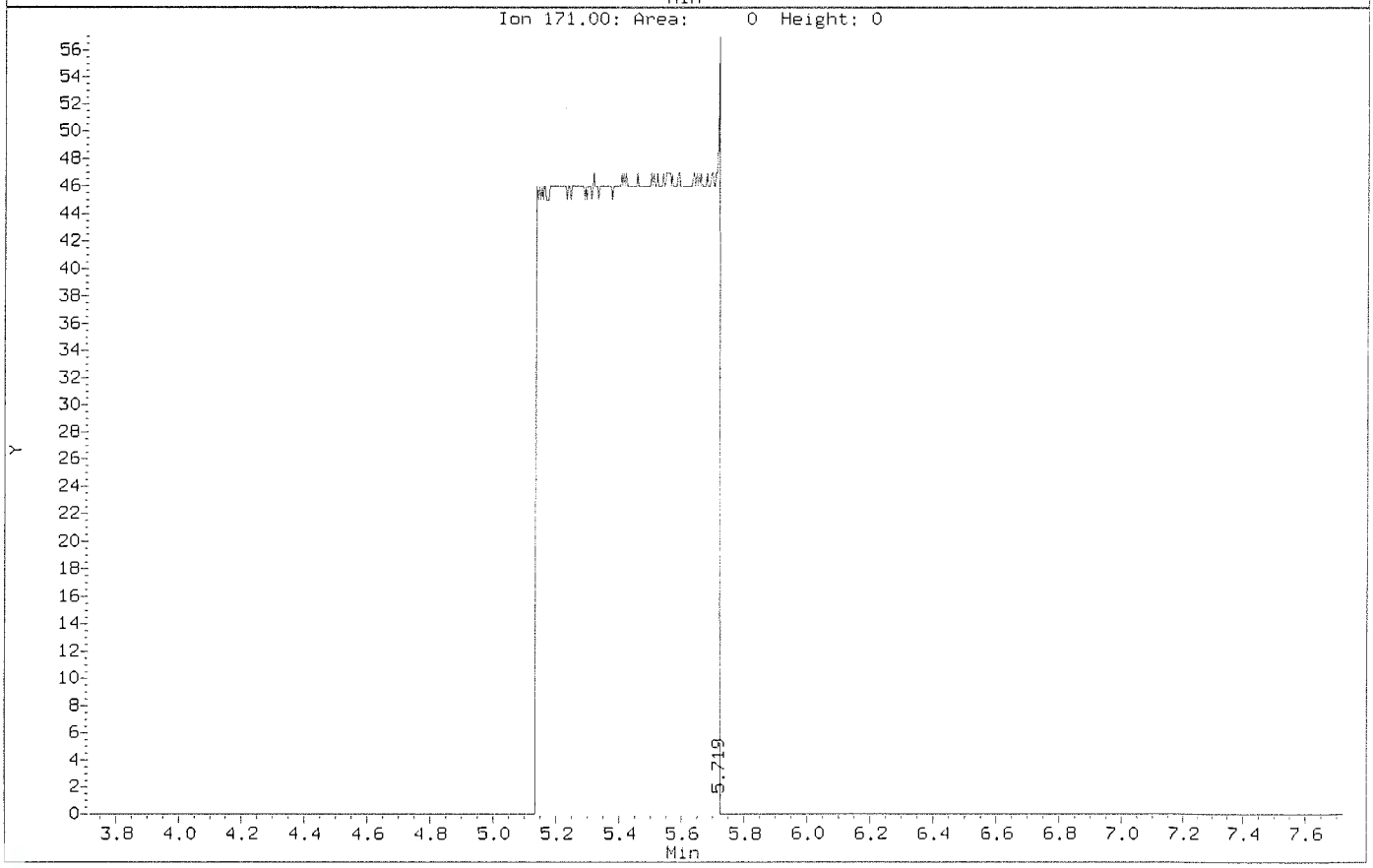




Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\31.D
Injection Date: 23-AUG-2022 19:03
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

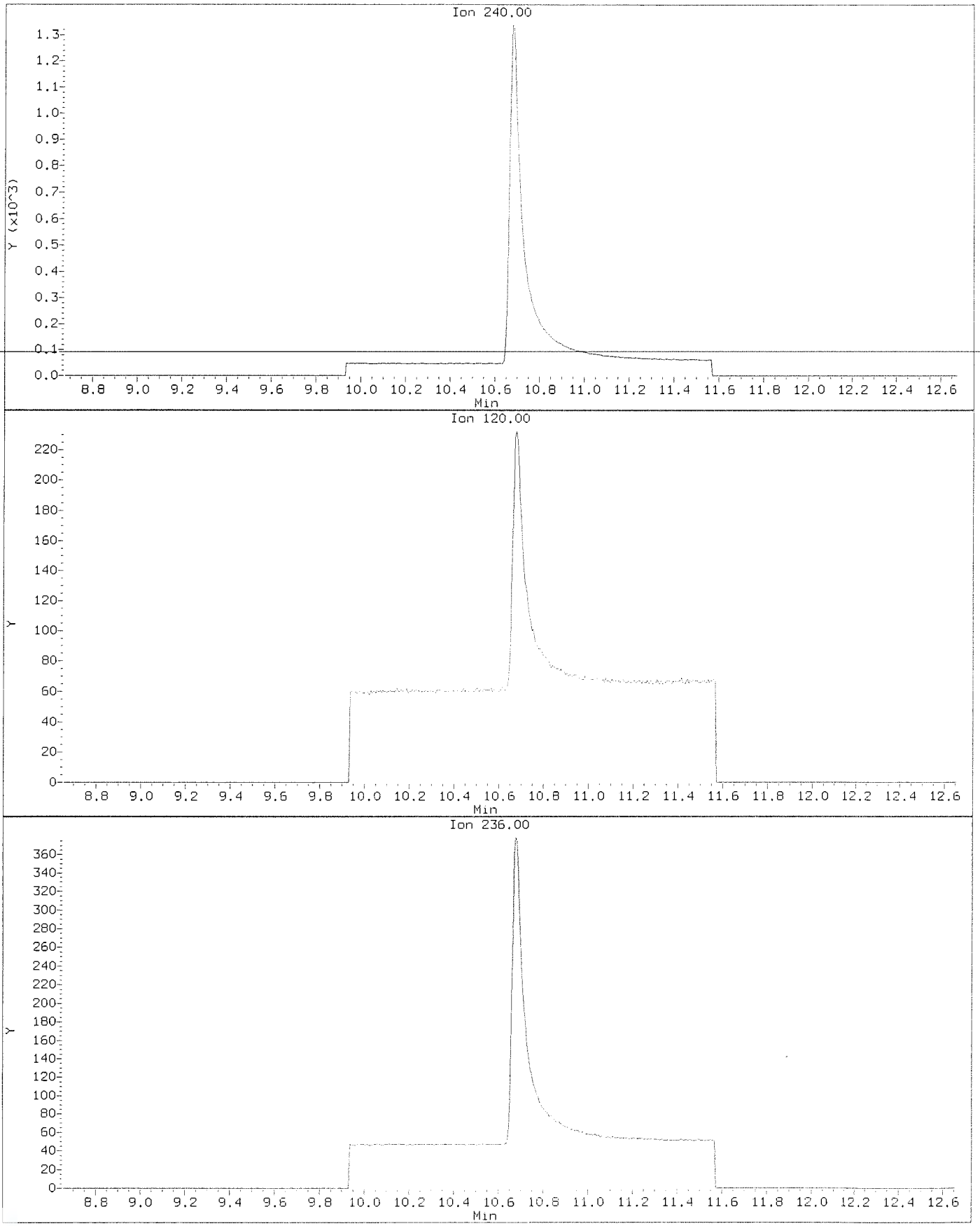
Compound: 2-Fluorobiphenyl
CAS Number: 321-60-8





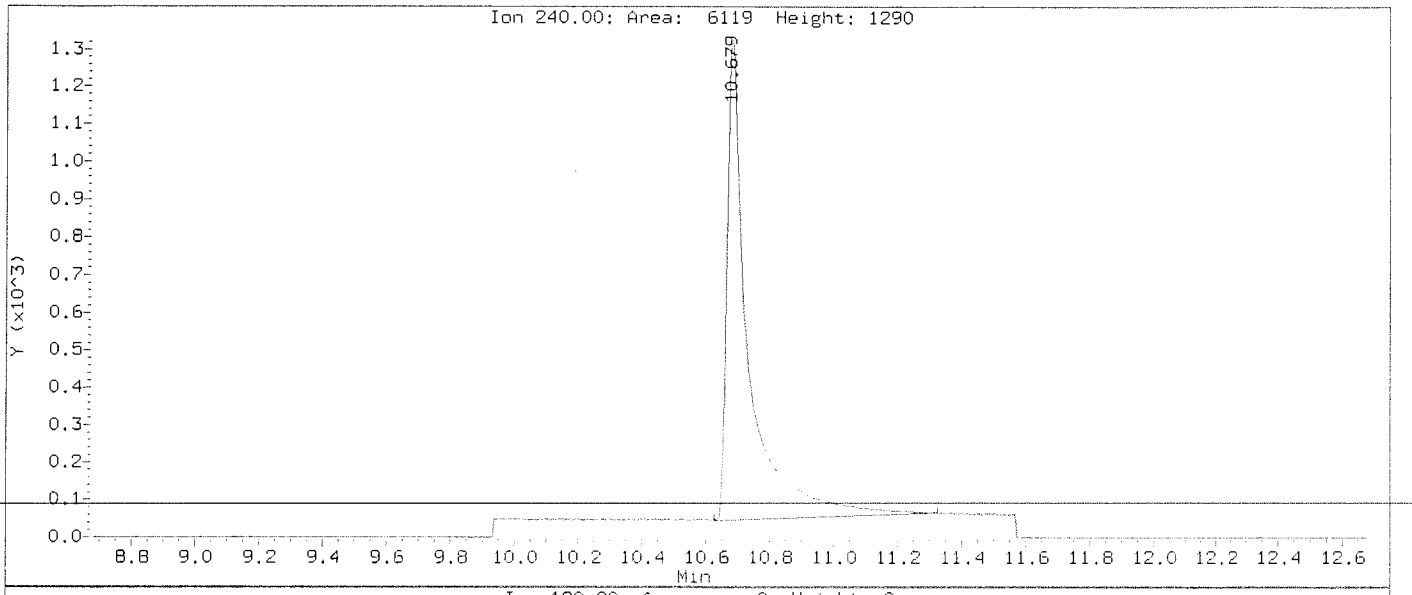
Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\Before\31.D
Injection Date: 23-AUG-2022 19:03
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

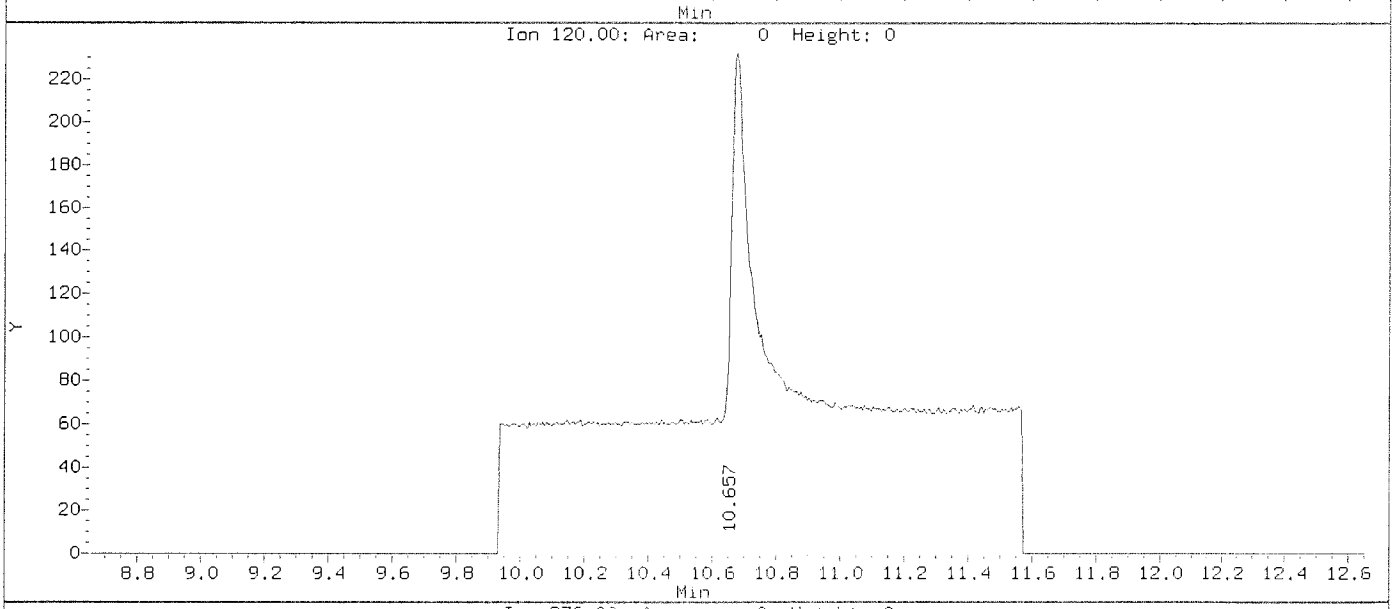
Compound: Chrysene-d12
CAS Number: 1719-03-5

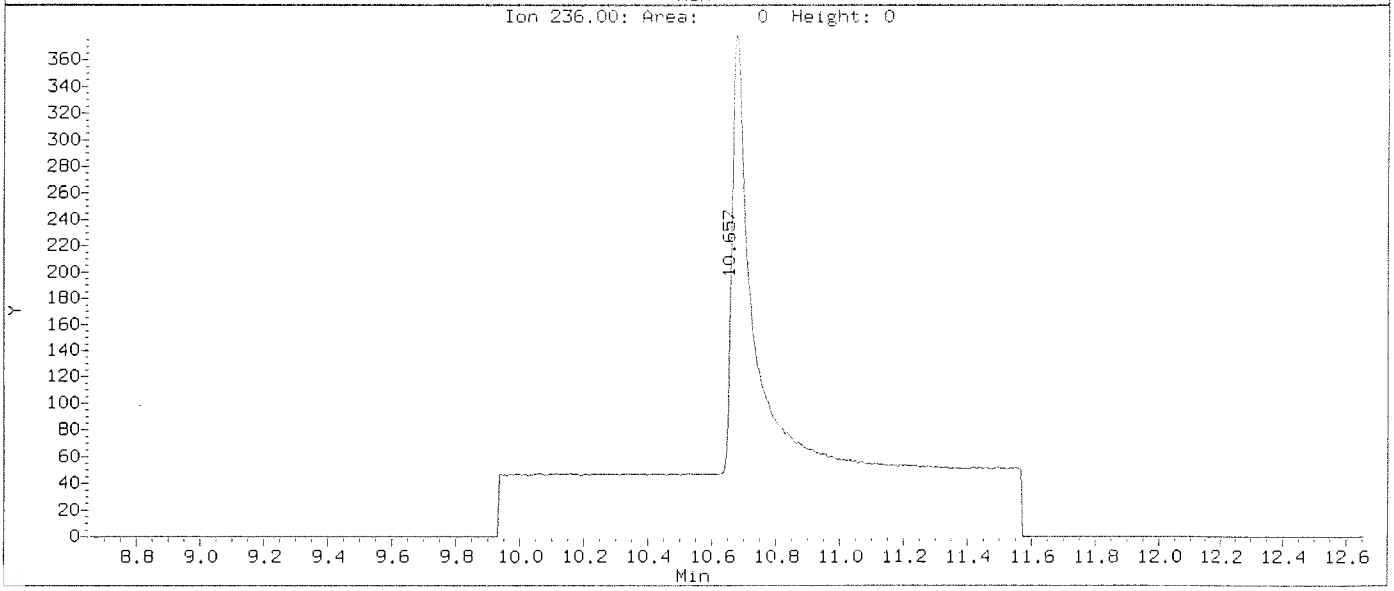


Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\31.D
Injection Date: 23-AUG-2022 19:03
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

Compound: Chrysene-d12
CAS Number: 1719-03-5

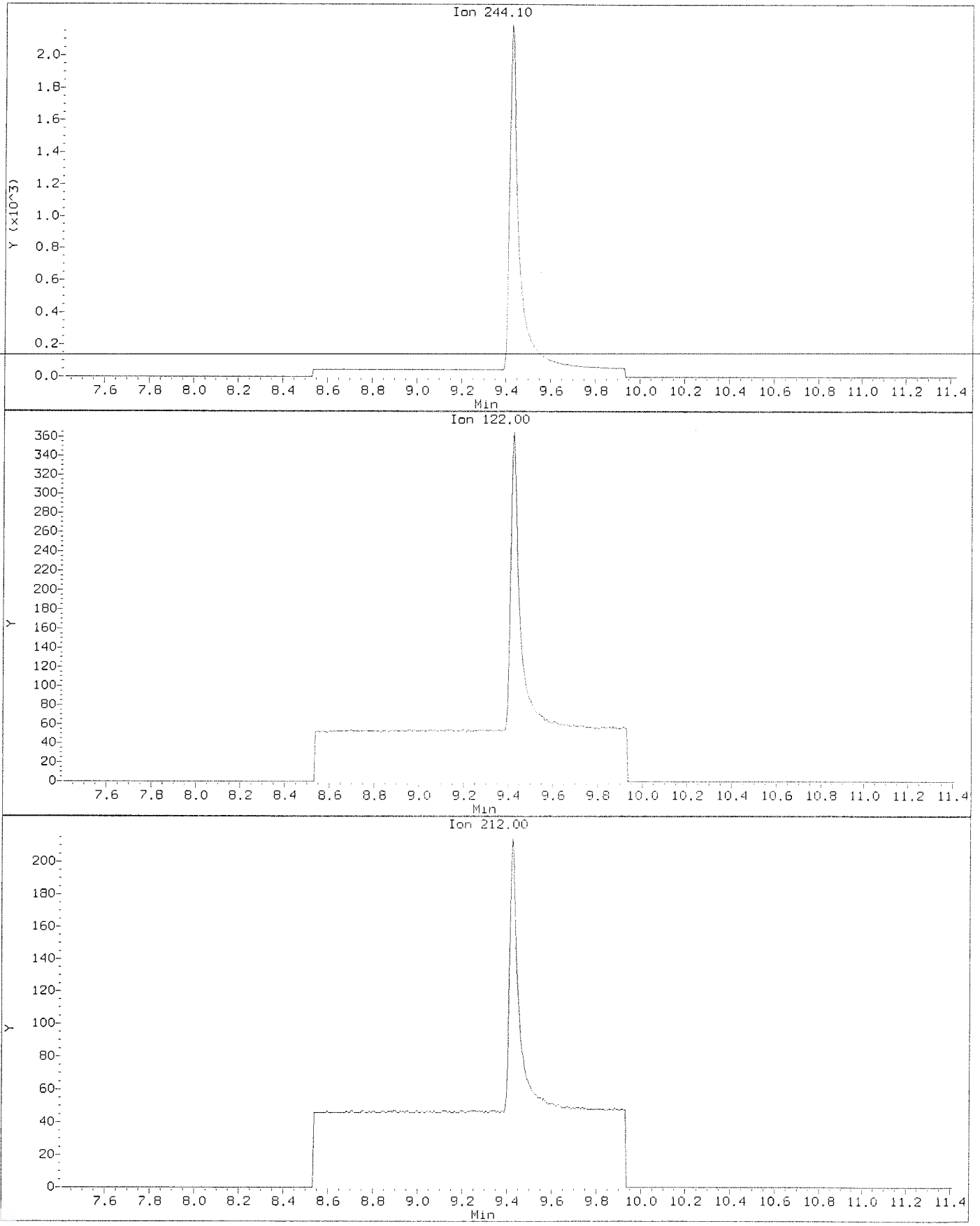






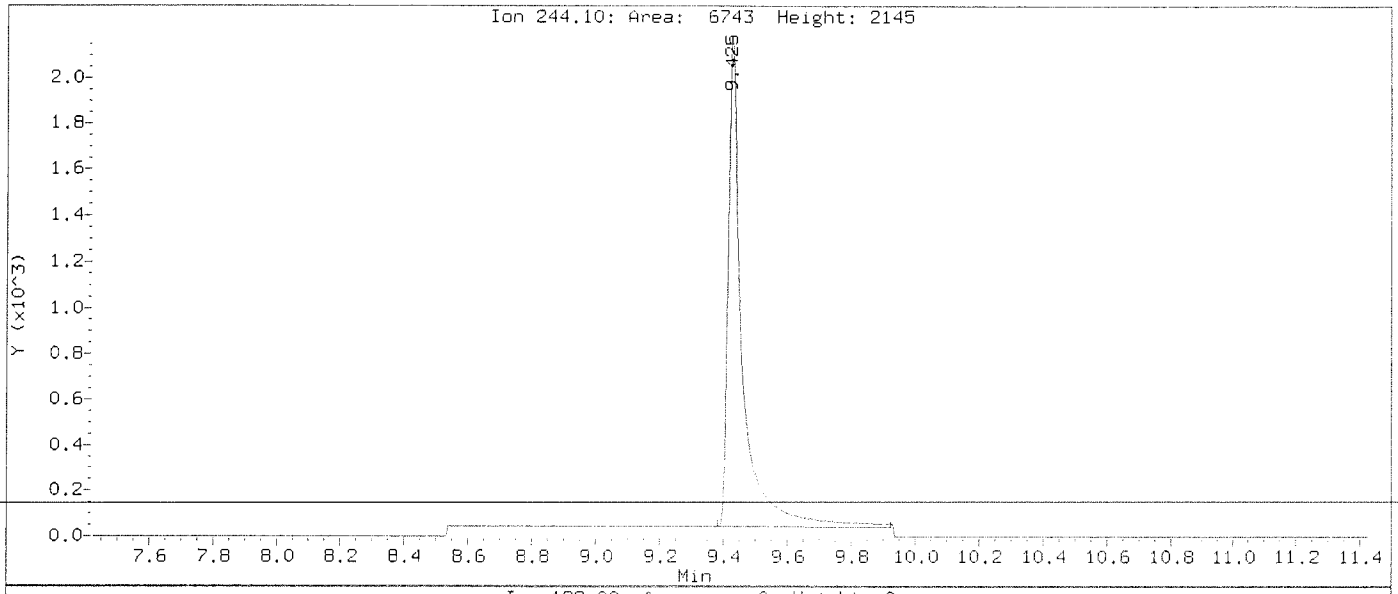
Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\Before\31.D
Injection Date: 23-AUG-2022 19:03
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

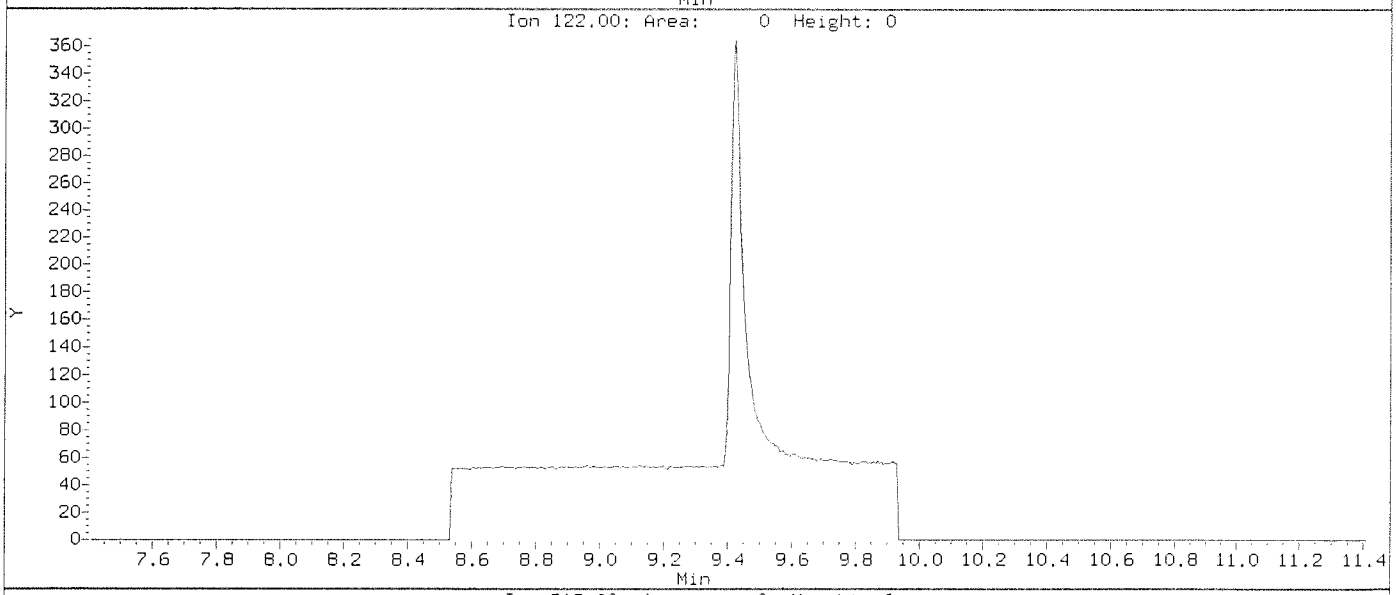
Compound: 4-Terphenyl-d14
CAS Number: 1718-51-0

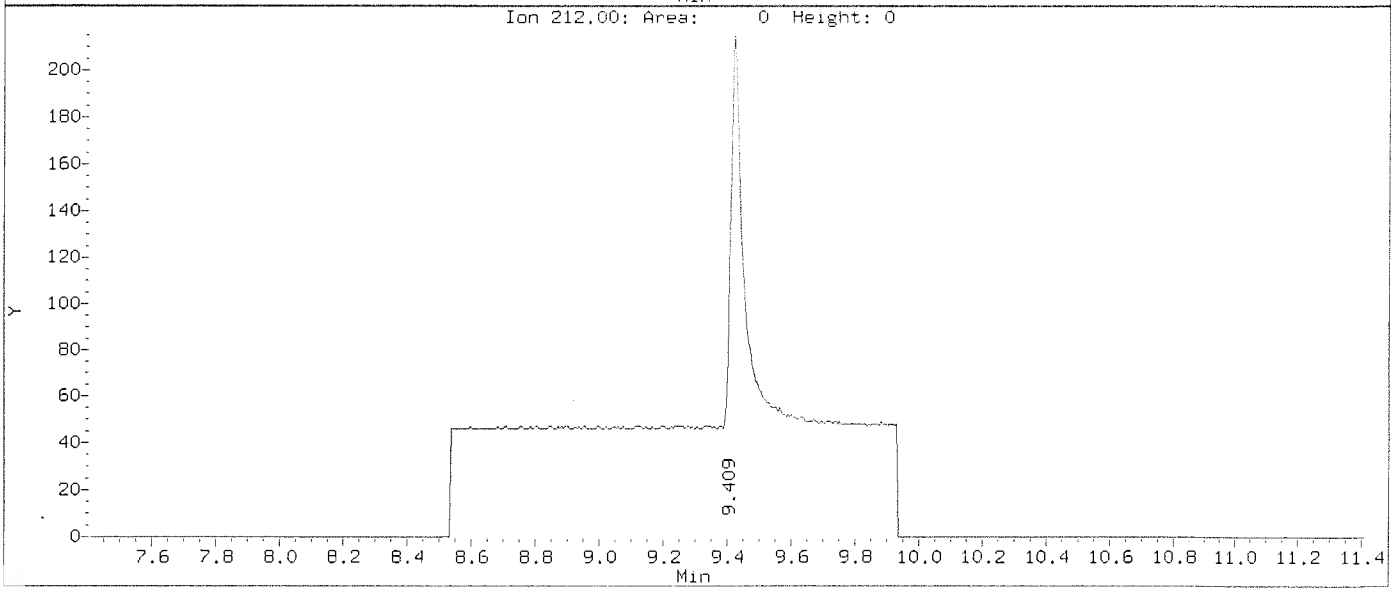


Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\31.D
Injection Date: 23-AUG-2022 19:03
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

Compound: 4-Terphenyl-d14
CAS Number: 1718-51-0

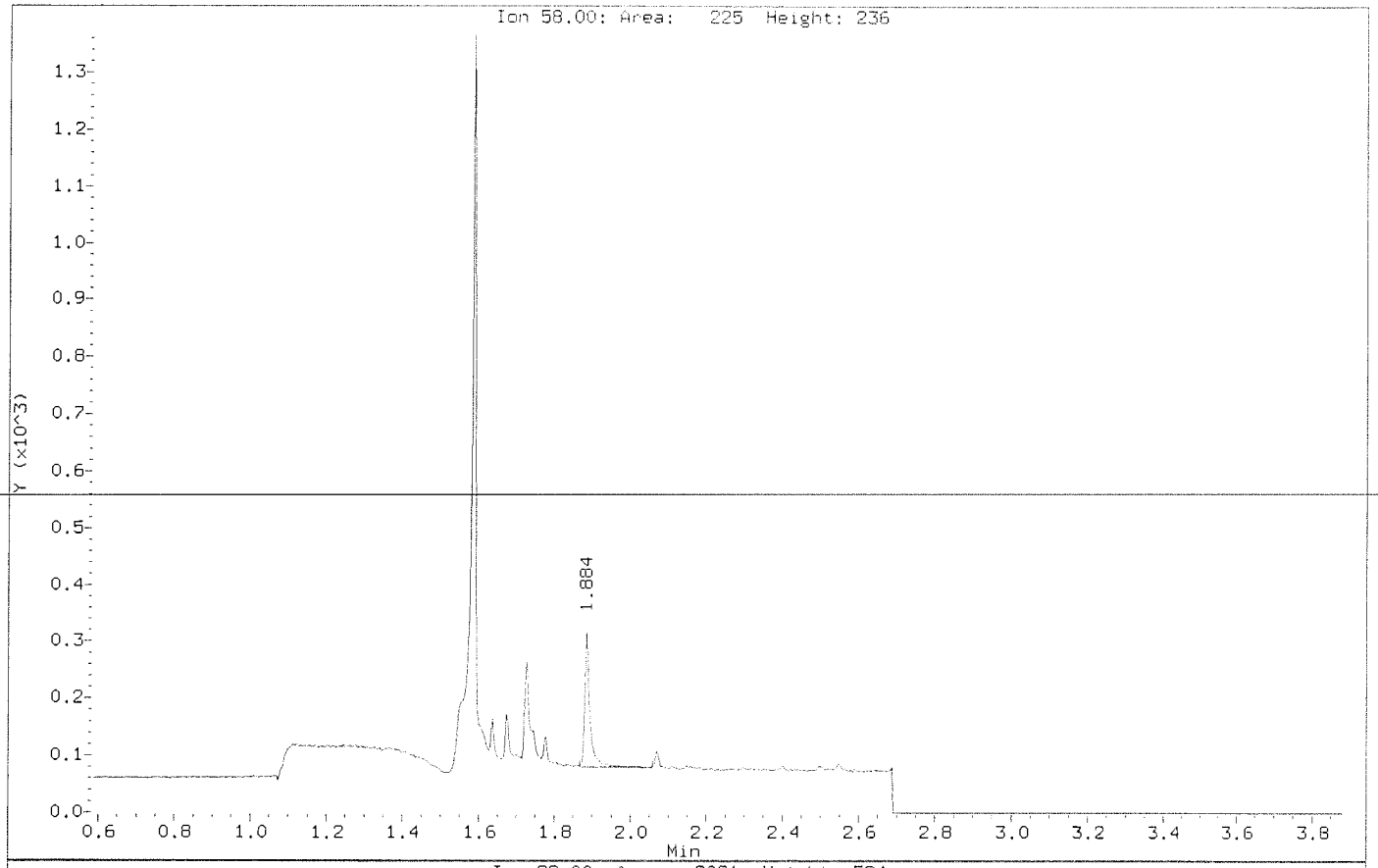


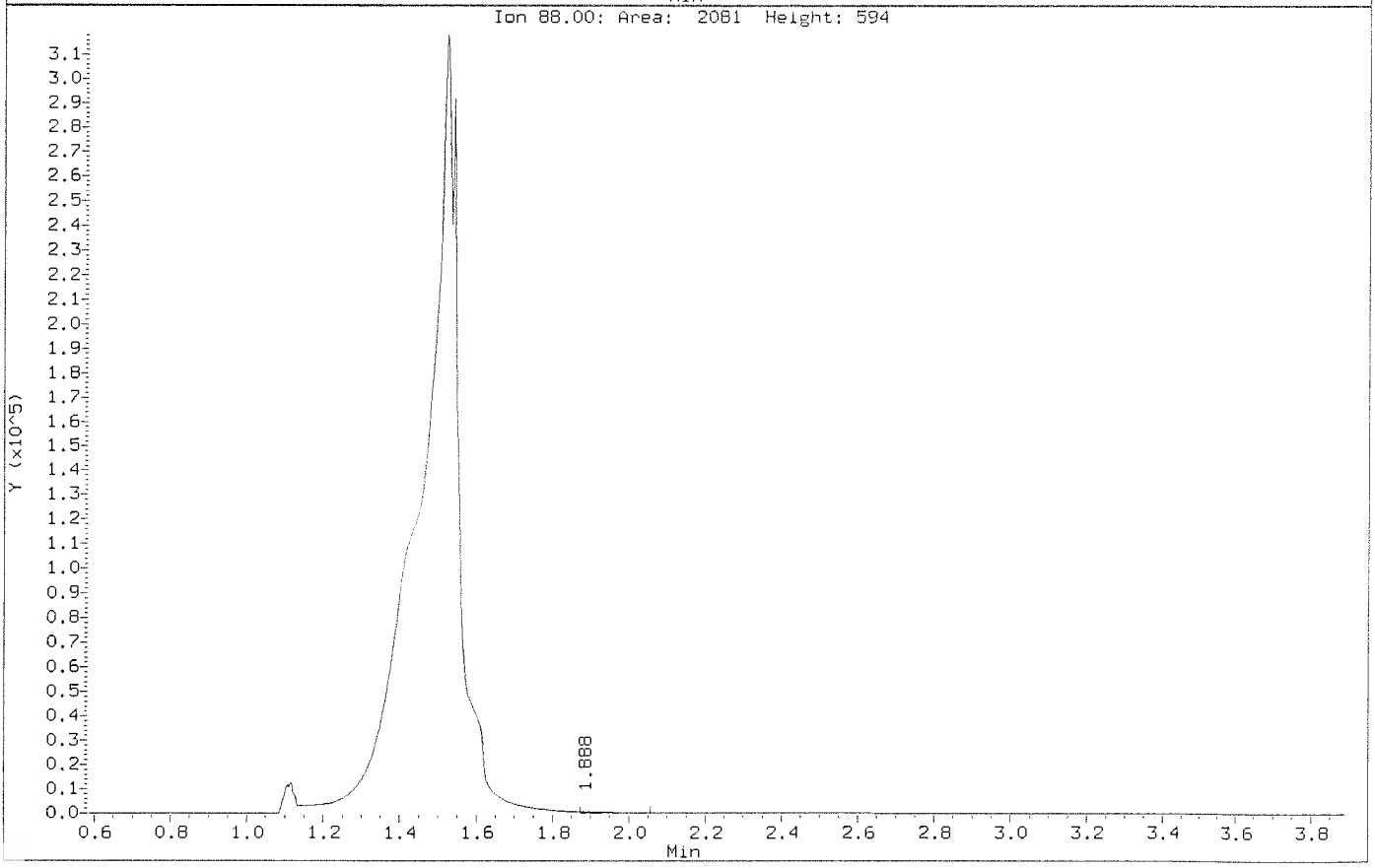




Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\Before\31.D
Injection Date: 23-AUG-2022 19:03
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

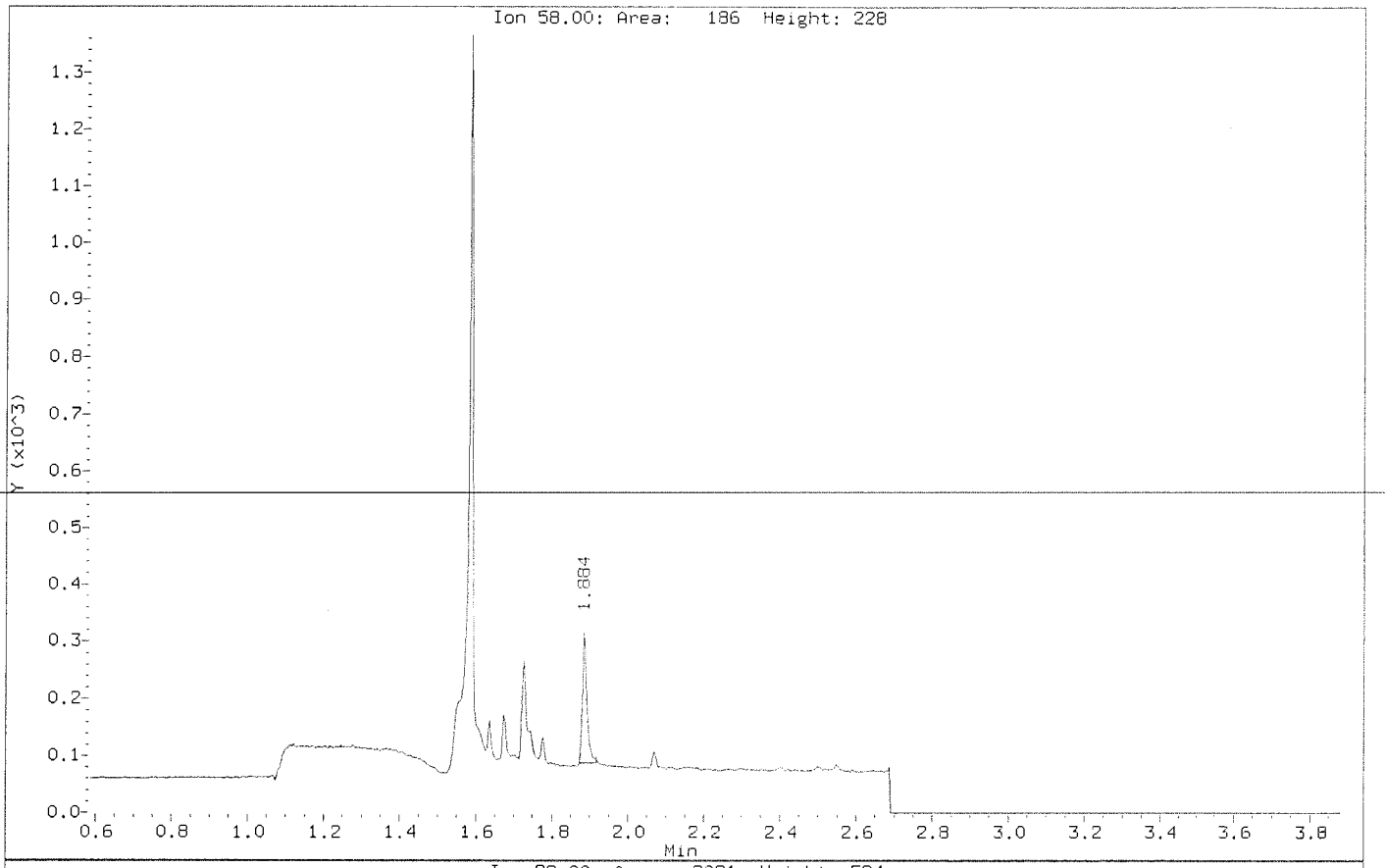
Compound: 1,4-Dioxane
CAS Number:

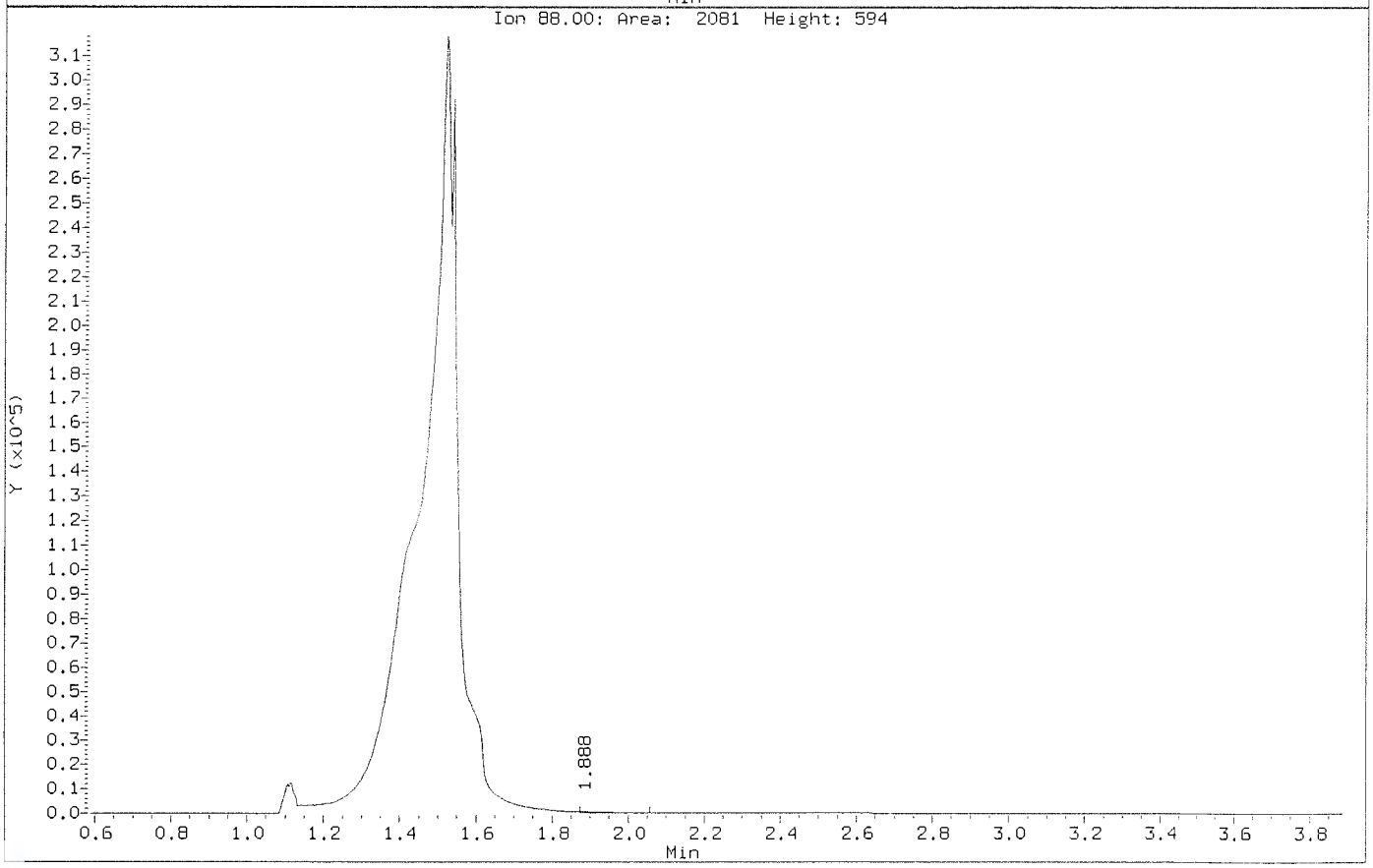




Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\31.D
Injection Date: 23-AUG-2022 19:03
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

Compound: 1,4-Dioxane
CAS Number:





Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\01.D

Date : 27-AUG-2022 10:44

Client ID: DFTPP

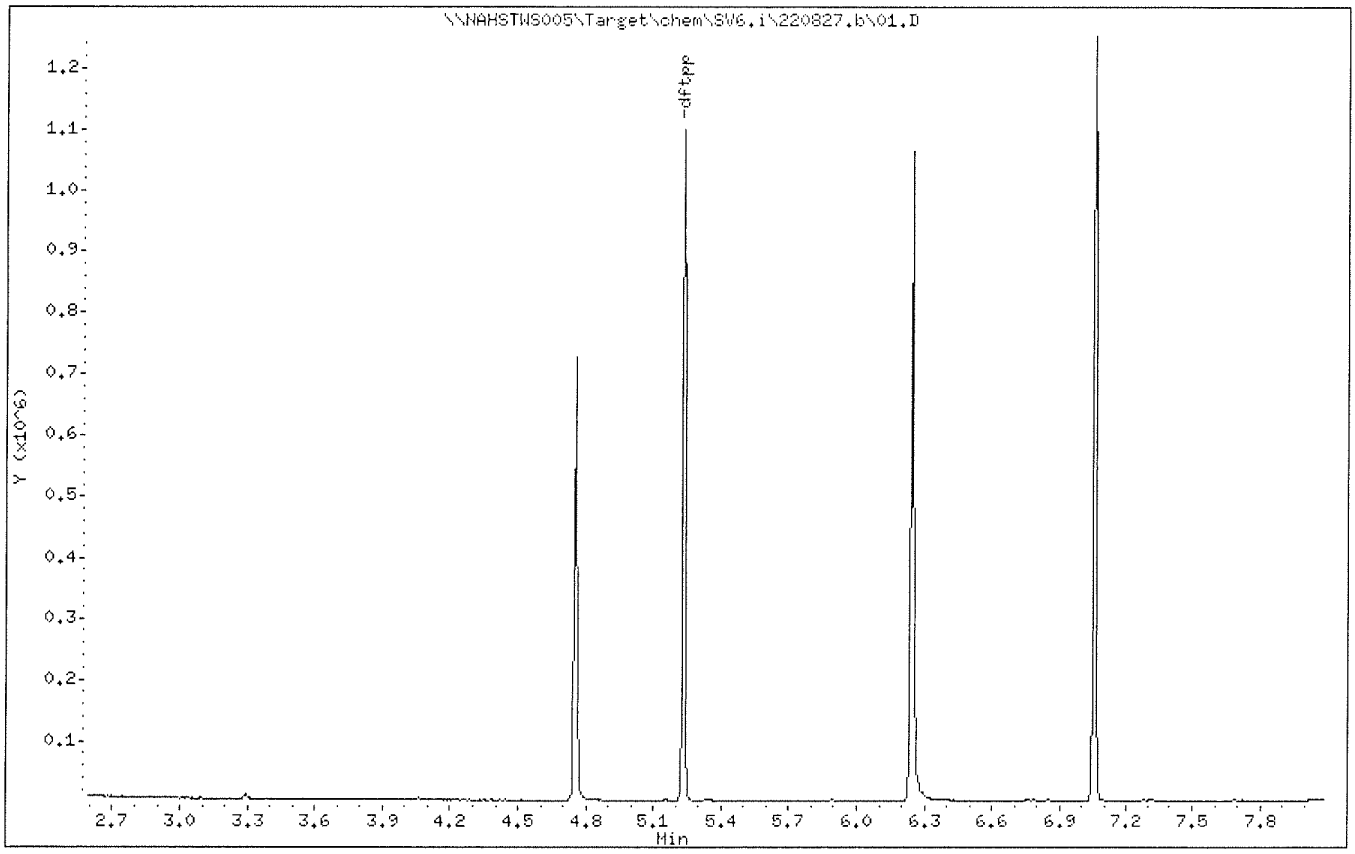
Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\01.D

Date : 27-AUG-2022 10:44

Client ID: DFTPP

Instrument: SV6.i

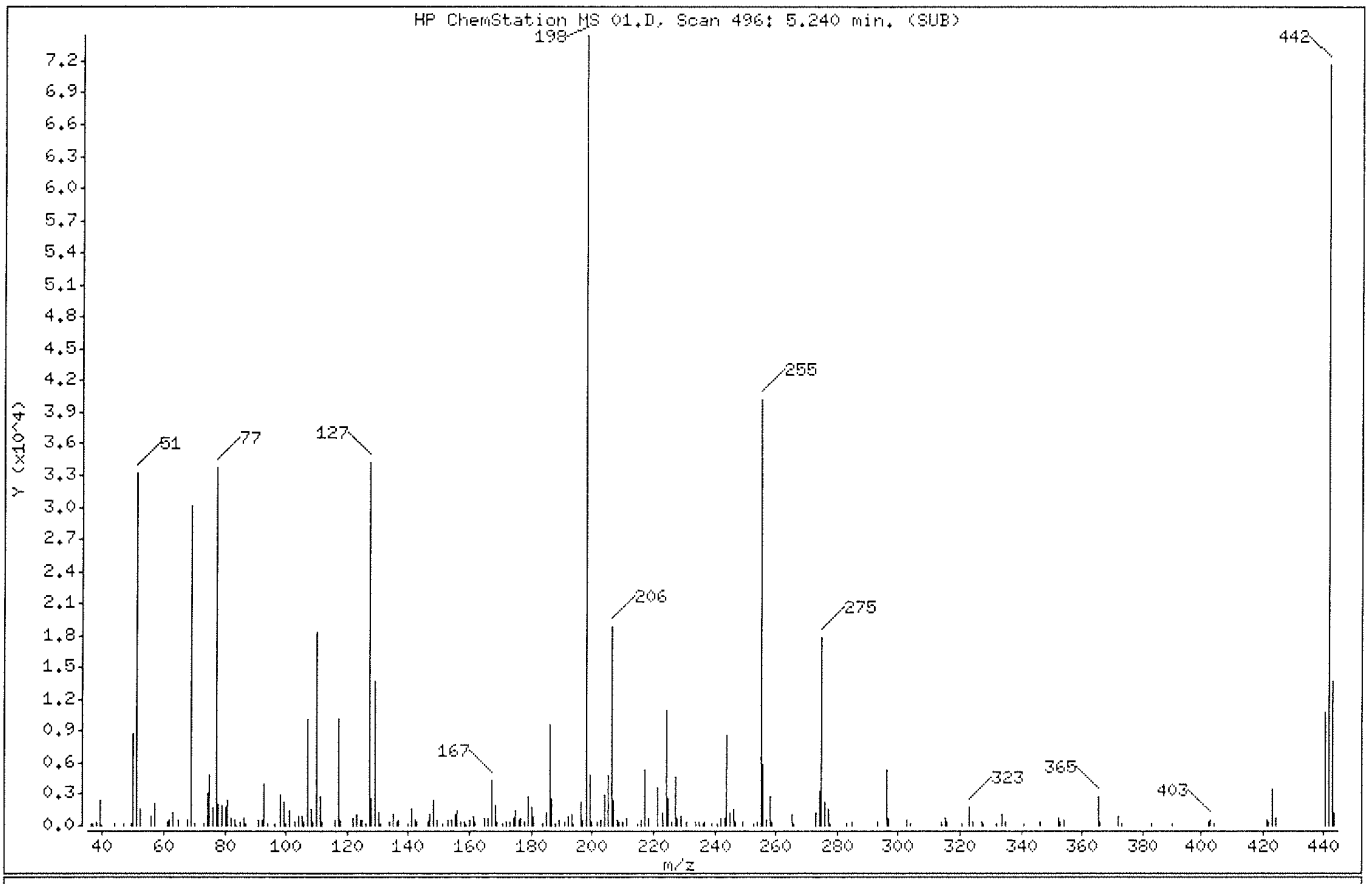
Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	44.64
68	Less than 2.00% of mass 69	0.60 (1.49)
69	Mass 69 relative abundance	40.45
70	Less than 2.00% of mass 69	0.22 (0.55)
127	10.00 - 80.00% of mass 198	46.03
197	Less than 2.00% of mass 198	0.62
199	5.00 - 9.00% of mass 198	6.53
275	10.00 - 60.00% of mass 198	23.85
365	1.00 - 100.00% of mass 198	3.59
441	Present, but less than mass 443	14.51
442	50.00 - 150.00% of mass 198	96.32
443	15.00 - 24.00% of mass 442	18.45 (19.16)

Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\01.D

Date : 27-AUG-2022 10:44

Client ID: DFTPP

Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25

Data File: 01.D
Spectrum: HP ChemStation MS 01.D, Scan 496: 5.240 min. (SUB)
Location of Maximum: 198.00
Number of points: 212

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	157	116.00	559	186.00	9615	258.00	2711
37.00	221	117.00	10026	187.00	2517	259.00	402
38.00	325	118.00	578	188.00	252	265.00	1007
39.10	2358	122.00	668	189.00	596	265.90	163
40.00	69	123.00	1063	191.00	351	273.00	1253
44.00	98	124.00	480	192.00	904	274.00	3172
47.00	161	125.00	448	193.00	1022	275.00	17736
49.00	91	126.10	173	194.00	226	276.00	2299
50.10	8637	127.00	34232	196.00	2257	277.00	1508
51.10	33200	128.00	2548	197.00	461	278.00	223
52.10	1583	129.00	13618	198.00	74376	283.00	175
56.00	870	130.00	1128	199.00	4857	285.10	275
57.00	2038	130.90	230	200.00	365	293.00	379
61.00	355	133.90	294	201.50	286	296.00	5295
62.00	461	135.00	1078	203.00	535	297.00	728
63.10	1209	136.00	406	204.00	2870	303.00	564
65.00	522	137.00	534	205.00	4716	304.00	214
68.00	447	140.00	189	206.10	18872	314.00	261
69.00	30080	141.00	1557	207.10	2398	315.00	689
70.00	164	142.00	519	208.00	596	316.00	302
73.00	247	142.90	362	208.90	257	320.90	170
74.00	3036	146.00	339	210.00	306	323.10	1771
75.00	4718	147.00	1014	211.00	690	324.00	353
76.00	1645	148.00	2441	215.00	224	327.00	293
77.10	33640	149.00	478	216.00	432	328.00	181
78.10	2019	151.00	197	217.00	5268	332.00	152
79.00	1812	153.00	551	218.00	689	334.00	1060
80.00	1665	154.00	477	221.00	3546	335.00	283
81.00	2378	155.00	1019	223.00	1275	341.00	175
82.00	663	156.00	1435	224.10	10912	346.00	376
83.00	545	157.00	264	225.10	2617	352.00	625
83.90	28	157.90	295	226.00	281	353.00	367
85.00	408	159.00	208	227.00	4607	354.00	479
86.00	668	160.00	509	228.00	700	365.00	2672
87.00	245	161.00	845	229.00	926	366.00	328

Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\01.D

Date : 27-AUG-2022 10:44

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 01.D
Spectrum: HP ChemStation MS 01.D, Scan 496: 5.240 min, (SUB)
Location of Maximum: 198.00
Number of points: 212

m/z	Y	m/z	Y	m/z	Y	m/z	Y
91.00	531	161.90	290	231.00	391	372.00	855
92.00	533	165.00	767	233.90	262	373.00	186
93.00	3925	166.00	606	235.00	262	383.00	245
93.90	236	167.00	4192	236.00	194	390.00	154
96.00	162	168.00	1846	237.00	386	402.00	395
98.00	2918	169.00	373	239.00	168	403.00	478
99.00	2221	170.90	161	241.00	253	404.00	238
99.90	162	172.00	300	242.00	625	421.00	508
101.00	1286	173.00	413	243.00	619	422.00	387
103.00	386	174.00	696	244.10	8529	423.10	3407
104.00	857	175.00	1434	245.00	1152	424.10	732
105.00	816	176.00	447	246.00	1576	441.10	10789
105.90	275	176.90	605	247.00	344	442.10	71640
107.00	10158	178.00	259	249.00	263	443.10	13726
108.00	1507	179.00	2697	253.00	208	444.00	1189
109.00	276	180.00	1754	254.00	353		
110.00	18344	181.00	854	255.00	40264		
111.00	2696	184.00	218	256.00	5763		
112.00	308	185.00	1231	257.00	471		

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220827.b\03.D
Lab Smp Id: 1,4-DIOX-CCV Client Smp ID: 1,4-DIOX-CCV
Inj Date : 27-AUG-2022 11:26
Operator : LG Inst ID: SV6.i
Smp Info : 1,4-DIOX-0.08;1,4-DIOX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220827.b\DXSIM.m
Meth Date : 07-Sep-2022 13:04 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 12:56 Cal File: 009.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)	
* 20 1,4-Dichlorobenzene-d4	152	3.368	3.368	(1.000)	5445	0.10000		(aM)
* 45 Naphthalene-d8	136	4.471	4.471	(1.000)	14264	0.10000		
$ 33 Nitrobenzene-d5	82	3.830	3.830	(0.857)	3751	0.08000	0.07889	(QM)
* 86 Acenaphthene-d10	164	6.138	6.138	(1.000)	8311	0.10000		(Q)
$ 69 2-Fluorobiphenyl	172	5.492	5.492	(0.895)	10356	0.08000	0.08005	(M)
* 126 Phenanthrene-d10	188	7.578	7.578	(1.000)	17053	0.10000		(M)
* 182 Chrysene-d12	240	10.332	10.332	(1.000)	6694	0.10000		(M)
$ 158 4-Terphenyl-d14	244	9.148	9.148	(0.885)	9417	0.08000	0.07482	(M)
* 198 Perylene-d12	264	12.319	12.319	(1.000)	5099	0.10000		(M)
1 1,4-Dioxane	58	1.670	1.670	(0.496)	212	0.08000	0.09484	(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.

01140214

Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\03.D

Date : 27-AUG-2022 11:26

Client ID: 1,4-DIOX-CCV

Instrument: SV6.i

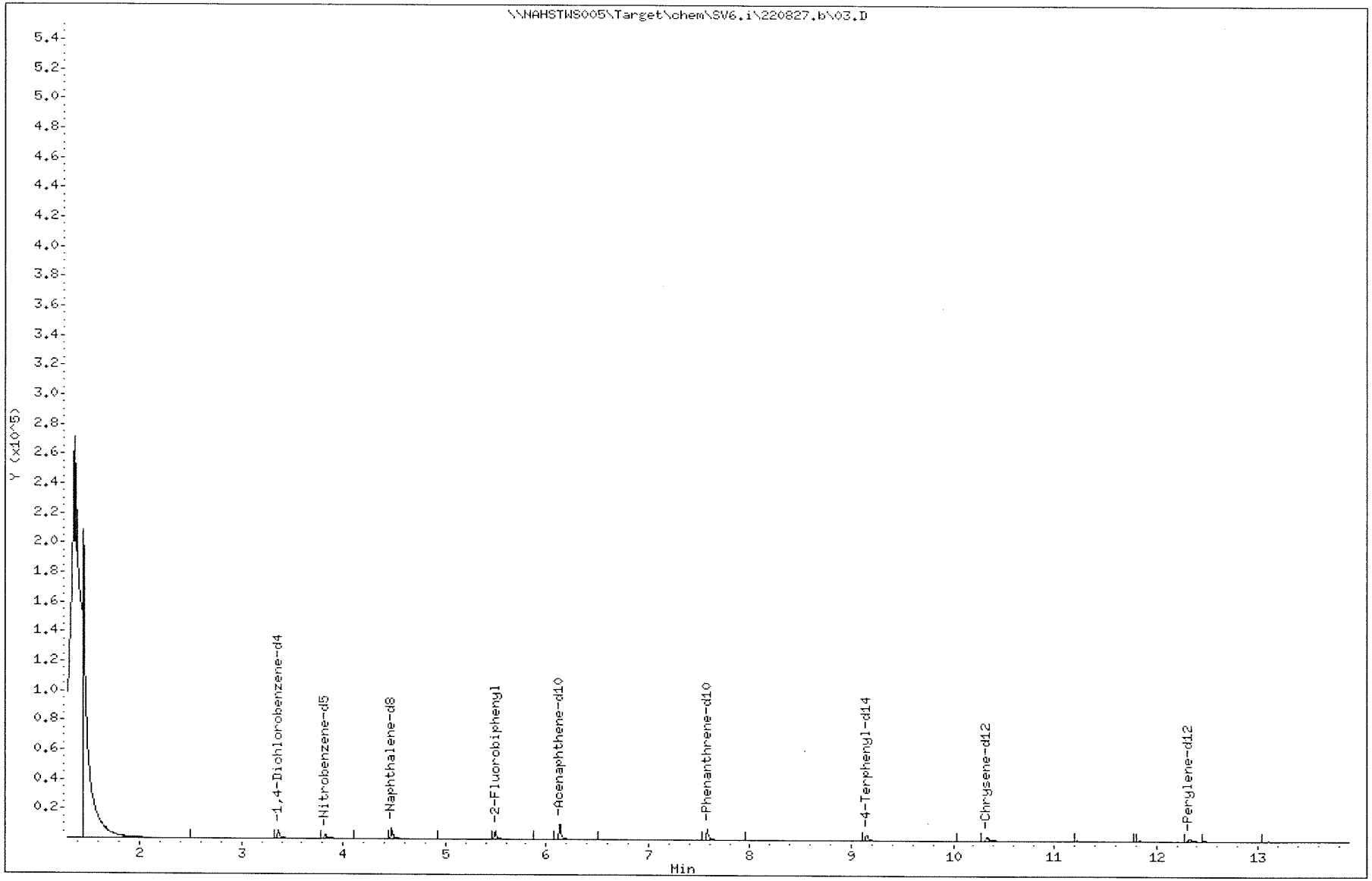
Sample Info: 1,4-DIOX-0.08;1,4-DIOX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



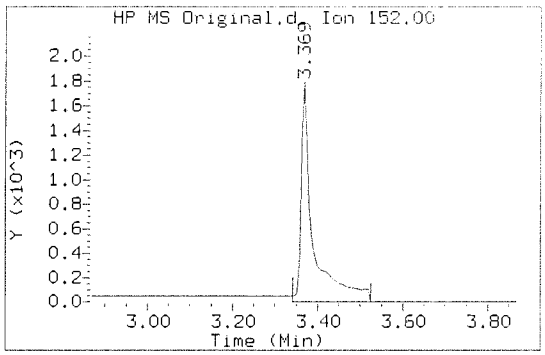
Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\03.D
Inj Date : 27-AUG-2022 11:26
InstruID : SV6.i
LabSampID : 1,4-DIOX-CCV

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

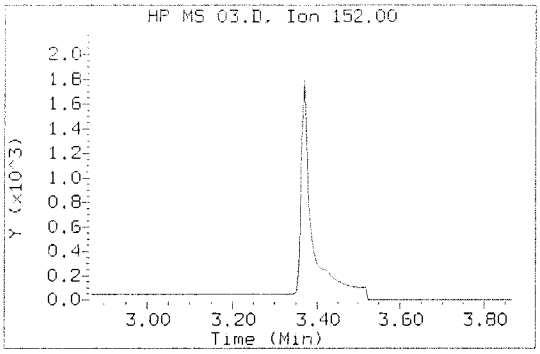
BEFORE

MASS 152
AREA 3472
HEIGHT 1797
27-Aug-2022 11:47
marco gutierrez



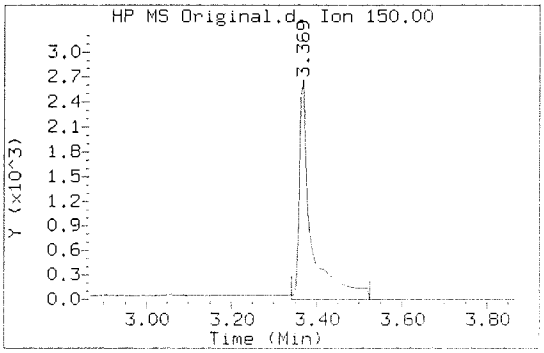
AFTER

MASS 152
AREA 5445
HEIGHT 1797
07-Sep-2022 13:04
marco gut



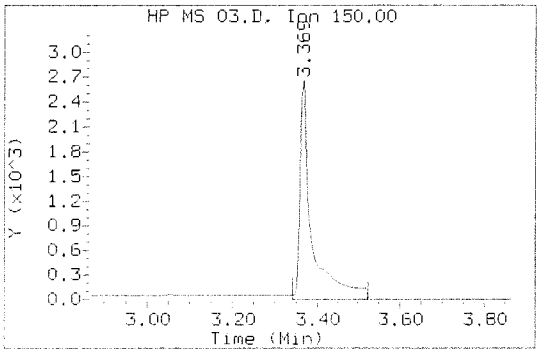
BEFORE

MASS 150
AREA 5205
HEIGHT 2671
27-Aug-2022 11:47
marco gutierrez



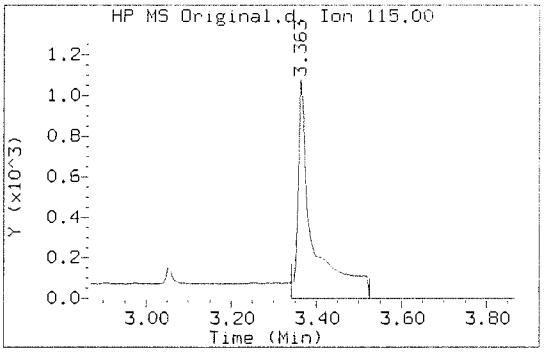
AFTER

MASS 150
AREA 5205
HEIGHT 2671
07-Sep-2022 13:04
marco gut



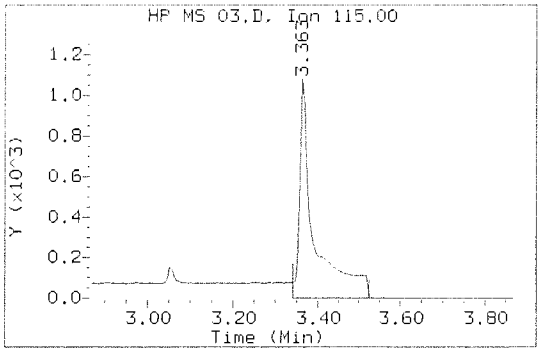
BEFORE

MASS 115
AREA 2579
HEIGHT 1082
27-Aug-2022 11:47
marco gutierrez



AFTER

MASS 115
AREA 2579
HEIGHT 1082
07-Sep-2022 13:04
marco gut

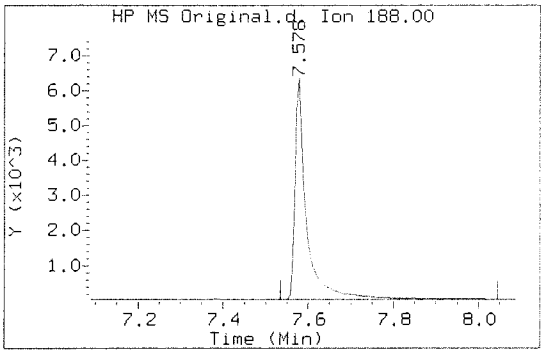


Phenanthrene-d10 (1517-22-2)

Reason Code:

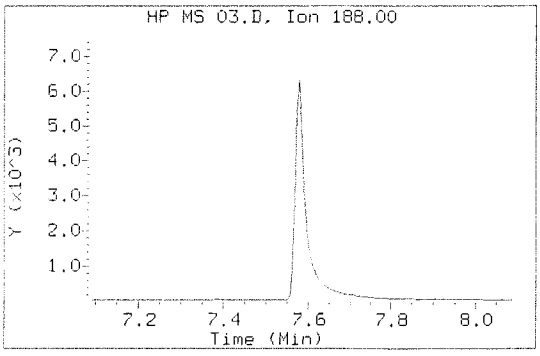
BEFORE

MASS 188
AREA 12044
HEIGHT 6286
27-Aug-2022 11:47
marco gutierrez



AFTER

MASS 188
AREA 17053
HEIGHT 6334
07-Sep-2022 13:04
marco gut



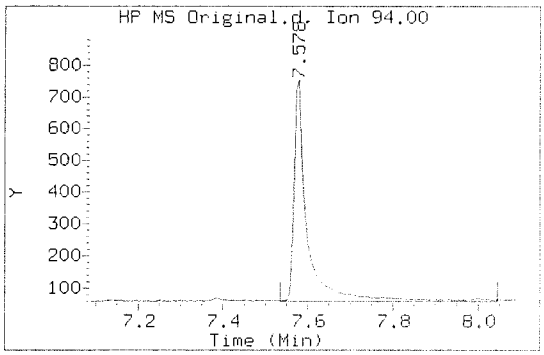
Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\03.D
Inj Date : 27-AUG-2022 11:26
InstruID : SV6.i
LabSampID : 1,4-DIOX-CCV

Phenanthrene-d10 (1517-22-2)

Reason Code:

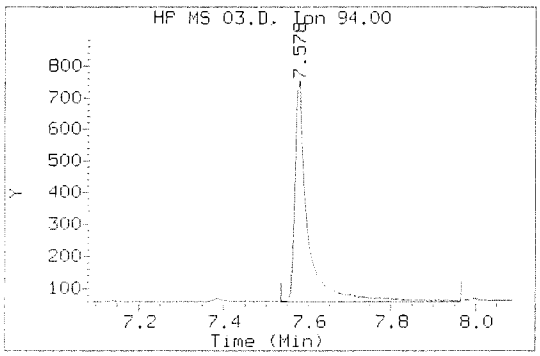
BEFORE

MASS
94
AREA
1481
HEIGHT
693
27-Aug-2022
11:47
marco
gutierrez



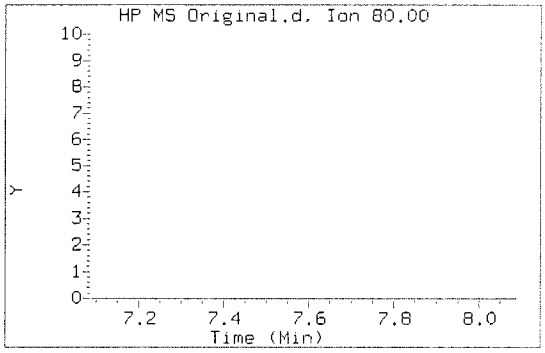
AFTER

MASS
94
AREA
1455
HEIGHT
693
07-Sep-2022
13:04
marco
gut



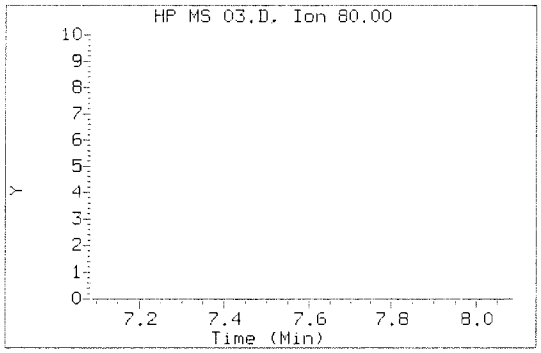
BEFORE

MASS
80
AREA
0
HEIGHT
0
27-Aug-2022
11:47
marco
gutierrez



AFTER

MASS
80
AREA
0
HEIGHT
0
07-Sep-2022
13:04
marco
gut

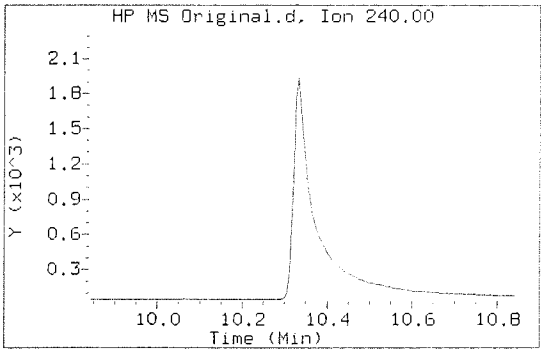


Chrysene-d12 (1719-03-5)

Reason Code:

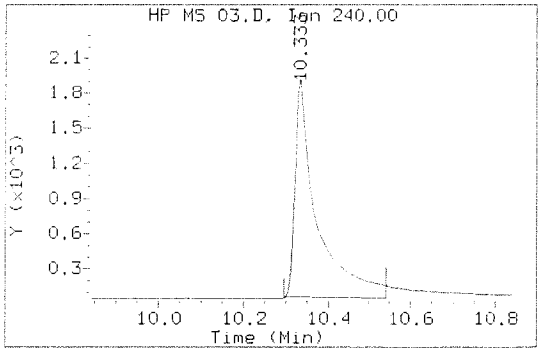
BEFORE

MASS
240
AREA
0
HEIGHT
0
27-Aug-2022
11:47
marco
gutierrez



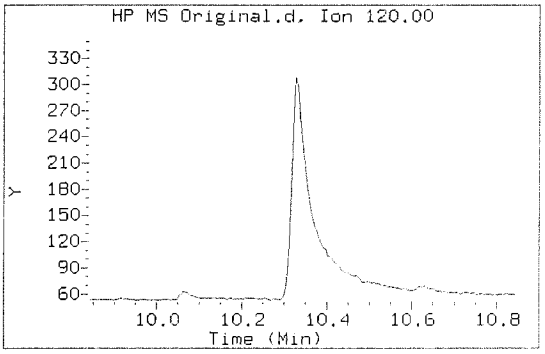
AFTER

MASS
240
AREA
1876
HEIGHT
1876
07-Sep-2022
13:04
marco
gut



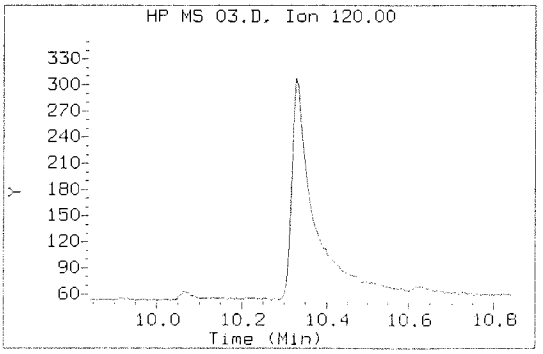
BEFORE

MASS
120
AREA
0
HEIGHT
0
27-Aug-2022
11:47
marco
gutierrez



AFTER

MASS
120
AREA
0
HEIGHT
0
07-Sep-2022
13:04
marco
gut



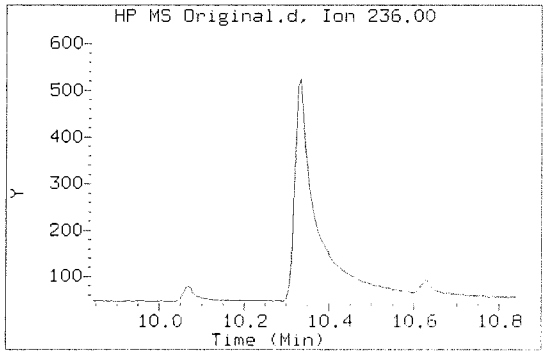
Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\03.D
Inj Date : 27-AUG-2022 11:26
InstruID : SV6.i
LabSampID : 1,4-DIOX-CCV

Chrysene-d12 (1719-03-5)

Reason Code:

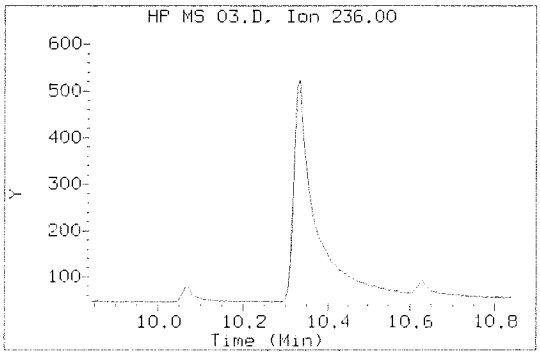
BEFORE

MASS
236
AREA
0
HEIGHT
0
27-Aug-2022
11:47
marco
gutierrez



AFTER

MASS
236
AREA
0
HEIGHT
0
07-Sep-2022
13:04
marco
gut

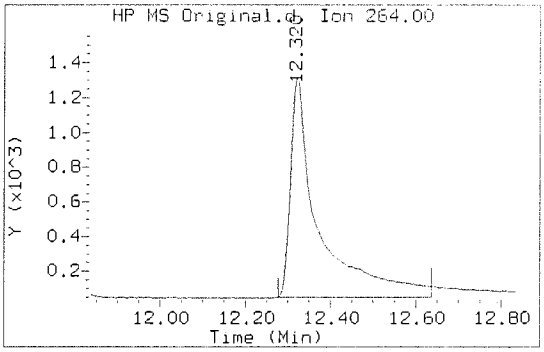


Perylene-d12 (1520-96-3)

Reason Code:

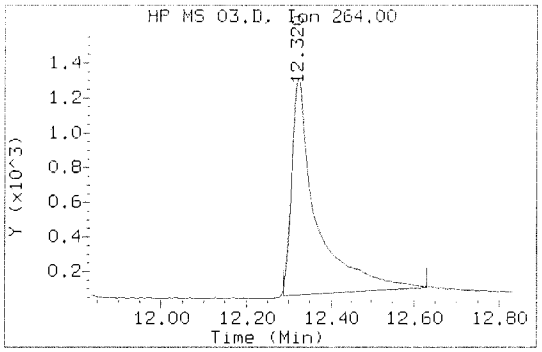
BEFORE

MASS
264
AREA
5654
HEIGHT
1257
27-Aug-2022
11:47
marco
gutierrez



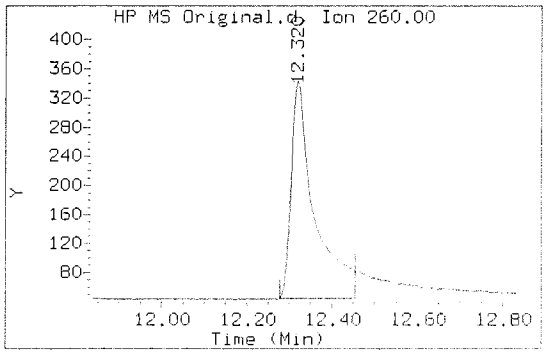
AFTER

MASS
264
AREA
5029
HEIGHT
1240
07-Sep-2022
13:04
marco
gut



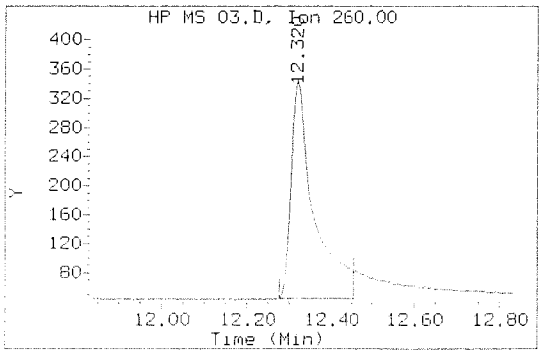
BEFORE

MASS
260
AREA
1127
HEIGHT
300
27-Aug-2022
11:47
marco
gutierrez



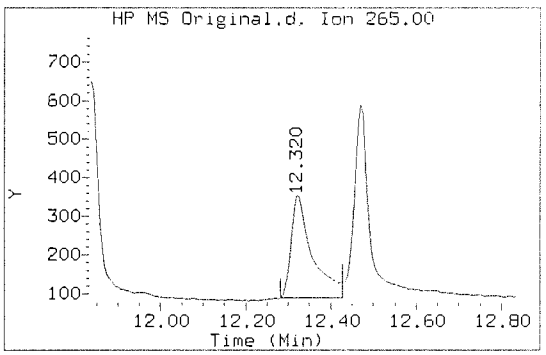
AFTER

MASS
260
AREA
1127
HEIGHT
300
07-Sep-2022
13:04
marco
gut



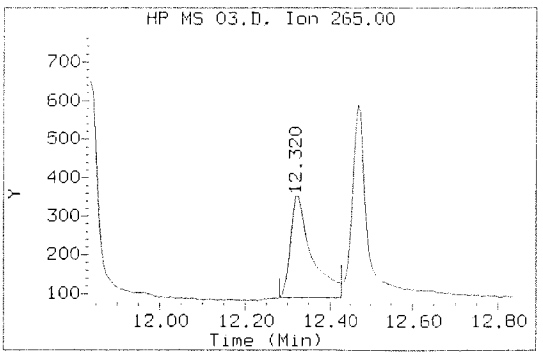
BEFORE

MASS
265
AREA
897
HEIGHT
262
27-Aug-2022
11:47
marco
gutierrez



AFTER

MASS
265
AREA
897
HEIGHT
262
07-Sep-2022
13:04
marco
gut

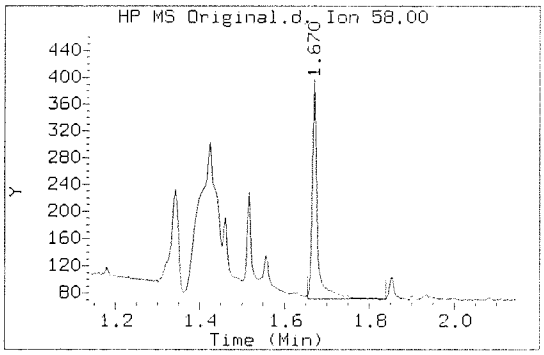


Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\03.D
Inj Date : 27-AUG-2022 11:26
InstruID : SV6.i
LabSampID : 1,4-DIOX-CCV

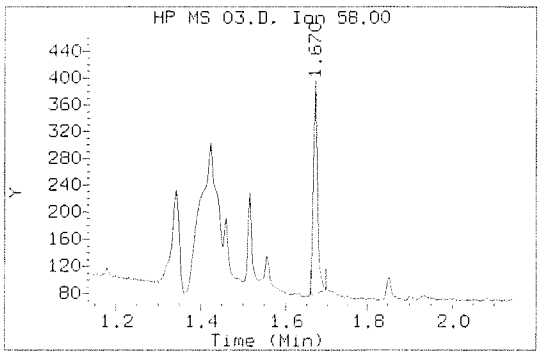
1,4-Dioxane ()

Reason Code:

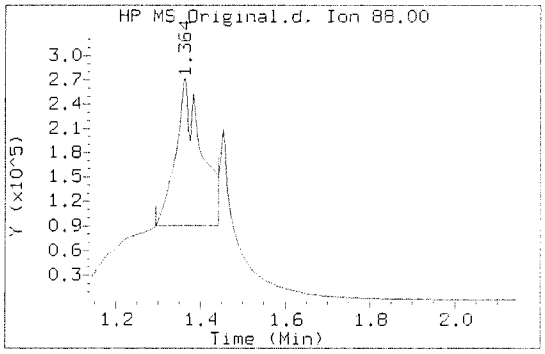
BEFORE
MASS
58
AREA
267
HEIGHT
325
27-Aug-2022
11:47
marco
gutierrez



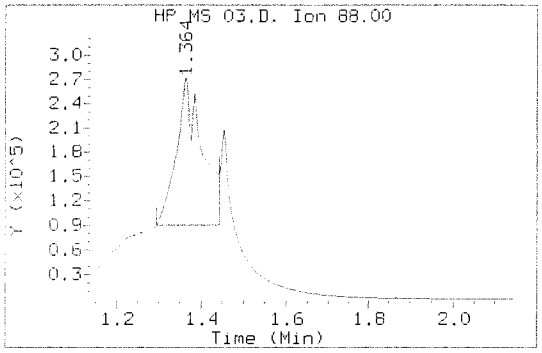
AFTER
MASS
58
AREA
212
HEIGHT
316
07-Sep-2022
13:04
marco
gut



BEFORE
MASS
88
AREA
761634
HEIGHT
180968
27-Aug-2022
11:47
marco
gutierrez



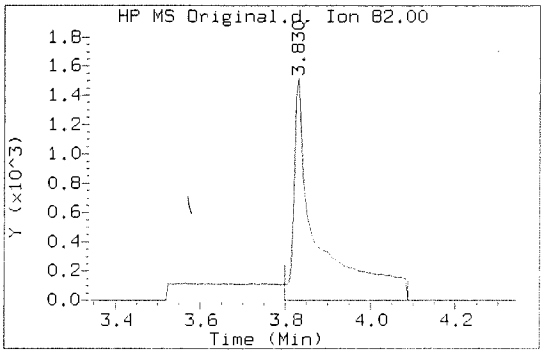
AFTER
MASS
88
AREA
761634
HEIGHT
180968
07-Sep-2022
13:04
marco
gut



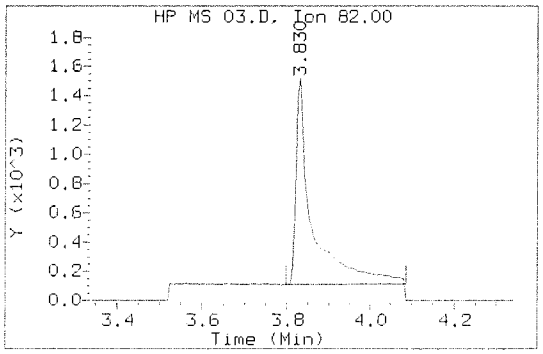
Nitrobenzene-d5 (4165-60-0)

Reason Code:

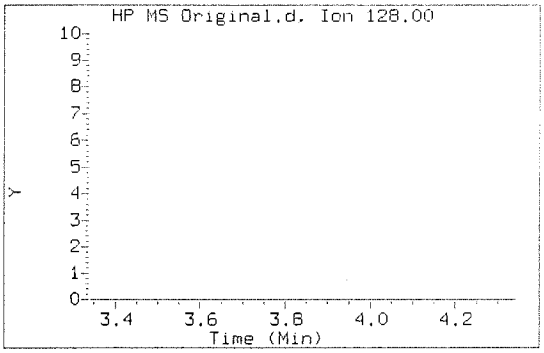
BEFORE
MASS
82
AREA
5734
HEIGHT
1518
27-Aug-2022
11:47
marco
gutierrez



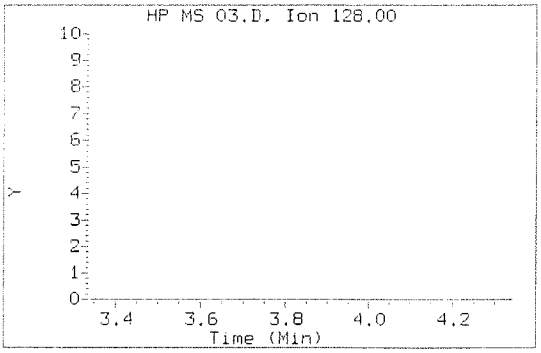
AFTER
MASS
82
AREA
3751
HEIGHT
1406
07-Sep-2022
13:04
marco
gut



BEFORE
MASS
128
AREA
0
HEIGHT
0
27-Aug-2022
11:47
marco
gutierrez



AFTER
MASS
128
AREA
0
HEIGHT
0
07-Sep-2022
13:04
marco
gut

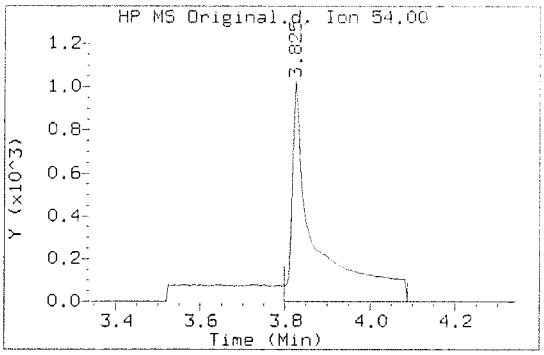


Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\03.D
Inj Date : 27-AUG-2022 11:26
InstruID : SV6.i
LabSampID : 1,4-DIOX-CCV

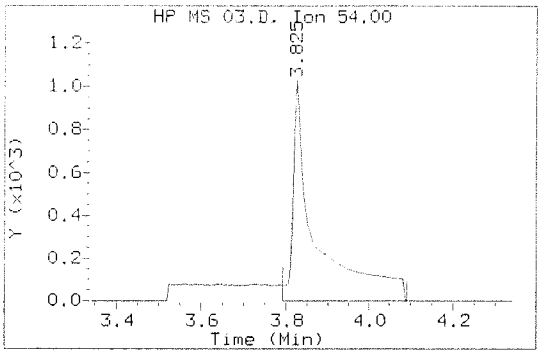
Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE
MASS
54
AREA
3621
HEIGHT
1030
27-Aug-2022
11:47
marco
gutierrez



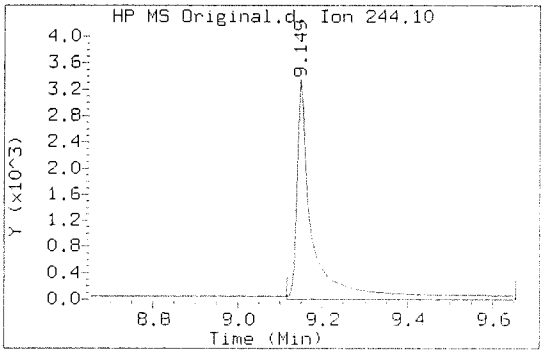
AFTER
MASS
54
AREA
3623
HEIGHT
1030
07-Sep-2022
13:04
marco
gut



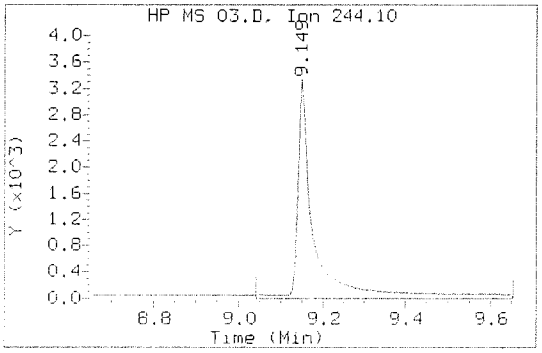
4-Terphenyl-d14 (1718-51-0)

Reason Code:

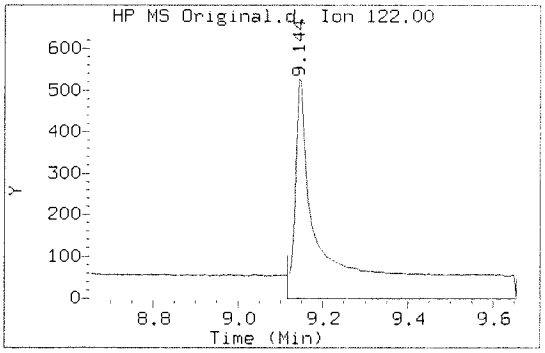
BEFORE
MASS
244.1
AREA
9048
HEIGHT
3351
27-Aug-2022
11:47
marco
gutierrez



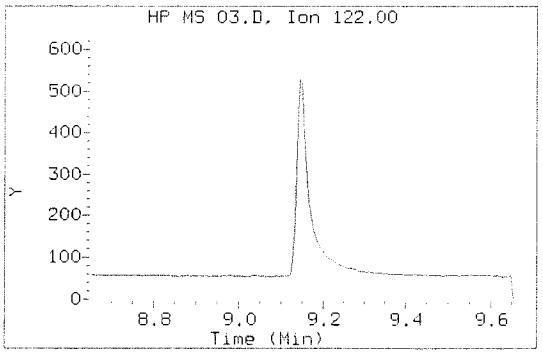
AFTER
MASS
244.1
AREA
9417
HEIGHT
3365
07-Sep-2022
13:04
marco
gut



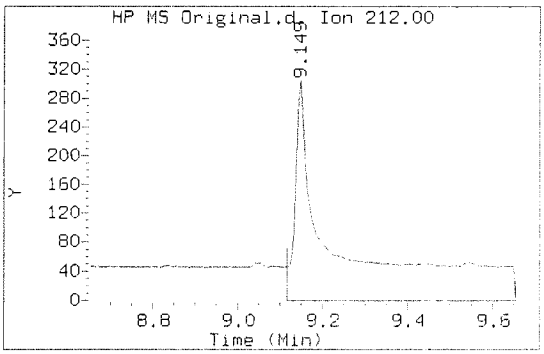
BEFORE
MASS
122
AREA
2871
HEIGHT
528
27-Aug-2022
11:47
marco
gutierrez



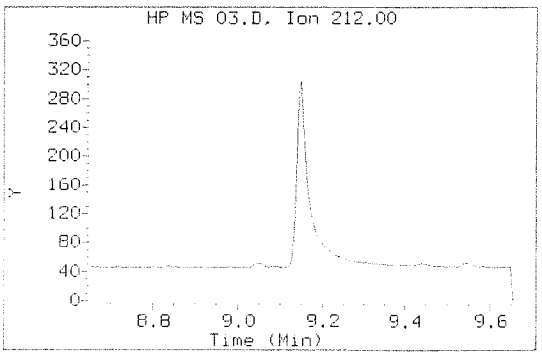
AFTER
MASS
122
AREA
0
HEIGHT
0
07-Sep-2022
13:04
marco
gut



BEFORE
MASS
212
AREA
2092
HEIGHT
305
27-Aug-2022
11:47
marco
gutierrez



AFTER
MASS
212
AREA
0
HEIGHT
0
07-Sep-2022
13:04
marco
gut

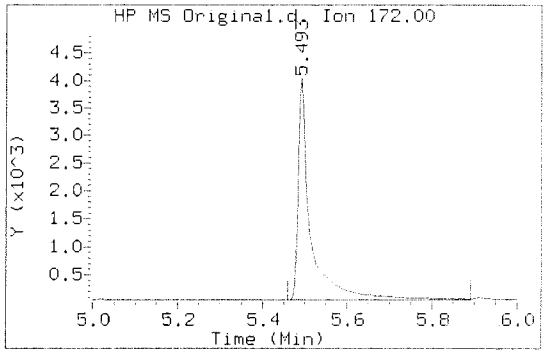


Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\03.D
Inj Date : 27-AUG-2022 11:26
InstruID : SV6.i
LabSampID : 1,4-DIOX-CCV

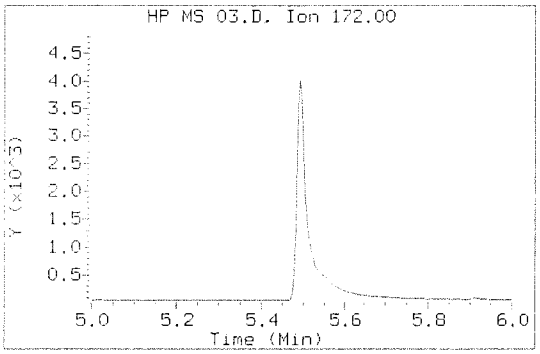
2-Fluorobiphenyl (321-60-8)

Reason Code:

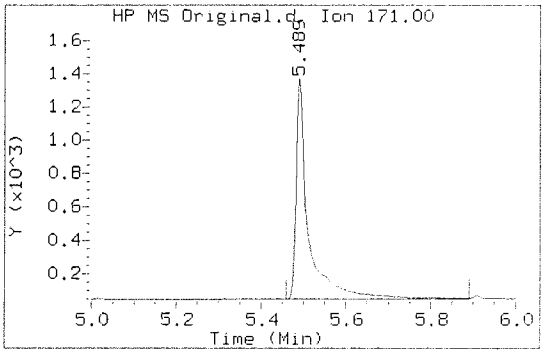
BEFORE
MASS
172
AREA
8149
HEIGHT
3988
27-Aug-2022
11:47
marco
gutierrez



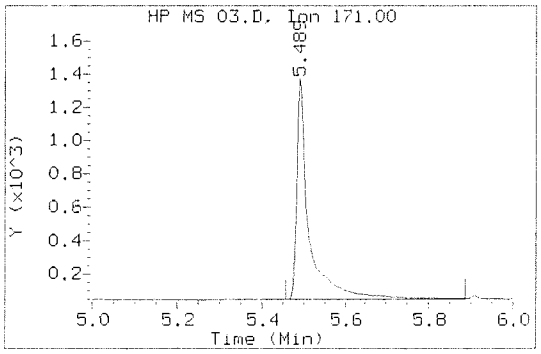
AFTER
MASS
172
AREA
1035
HEIGHT
4051
07-Sep-2022
13:04
marco
gut



BEFORE
MASS
171
AREA
2727
HEIGHT
1325
27-Aug-2022
11:47
marco
gutierrez



AFTER
MASS
171
AREA
2725
HEIGHT
1325
07-Sep-2022
13:04
marco
gut



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220827.b\05.D
Lab Smp Id: HS22080927-05
Inj Date : 27-AUG-2022 12:18
Operator : LG Inst ID: SV6.i
Smp Info : HS22080927-05
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\220827.b\DXSIM.m
Meth Date : 29-Aug-2022 09:27 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 12:56 Cal File: 009.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	3.374	3.368	(1.000)	5773	0.10000	(aM)
* 45 Naphthalene-d8	136	4.471	4.471	(1.000)	13399	0.10000	
$ 33 Nitrobenzene-d5	82	3.830	3.830	(0.857)	4188	0.09377	0.09376(Q)
* 86 Acenaphthene-d10	164	6.133	6.138	(1.000)	8203	0.10000	(Q)
$ 69 2-Fluorobiphenyl	172	5.489	5.492	(0.895)	5850	0.04582	0.04582(M)
* 126 Phenanthrene-d10	188	7.573	7.578	(1.000)	12361	0.10000	
* 182 Chrysene-d12	240	10.327	10.332	(1.000)	6983	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.143	9.148	(0.885)	5367	0.04088	0.04088(M)
* 198 Perylene-d12	264	12.314	12.319	(1.000)	5475	0.10000	
1 1,4-Dioxane	58	1.688	1.670	(0.501)	18948	7.99497	7.995(AQ)

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.

01140223

Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\05.D

Date : 27-AUG-2022 12:18

Client ID:

Instrument: SV6.i

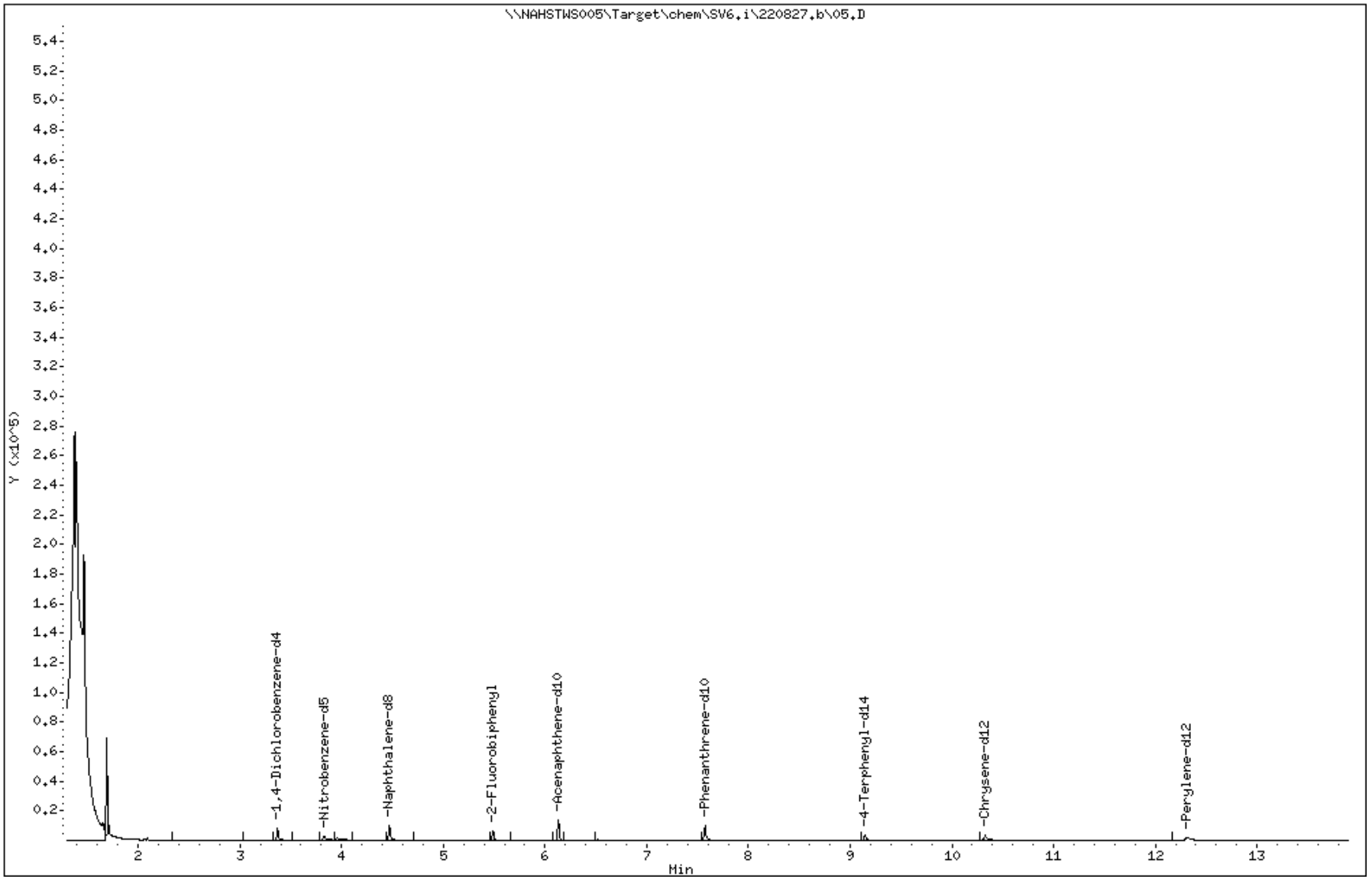
Sample Info: HS22080927-05

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\05.D

Date : 27-AUG-2022 12:18

Client ID:

Instrument: SV6.i

Sample Info: HS22080927-05

Purge Volume: 1000.0

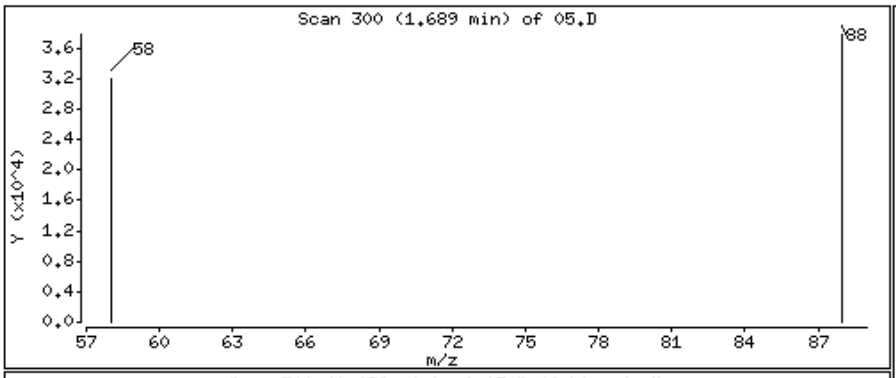
Operator: LC

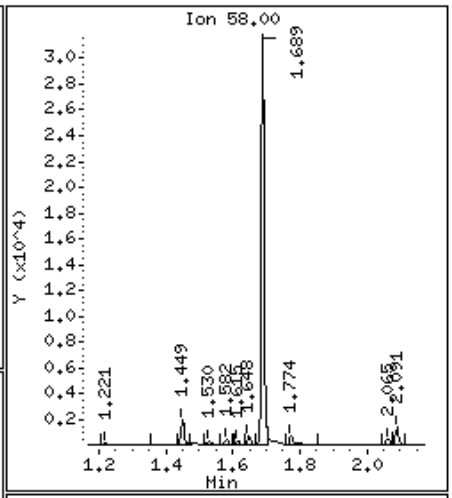
Column phase: RTX-5SIL MS

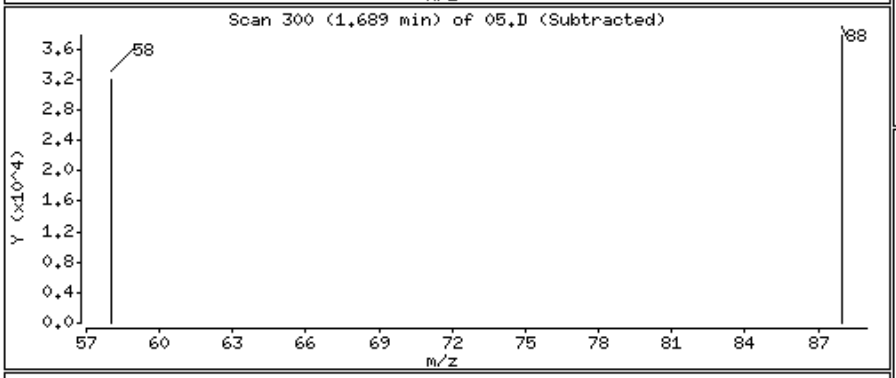
Column diameter: 0.28

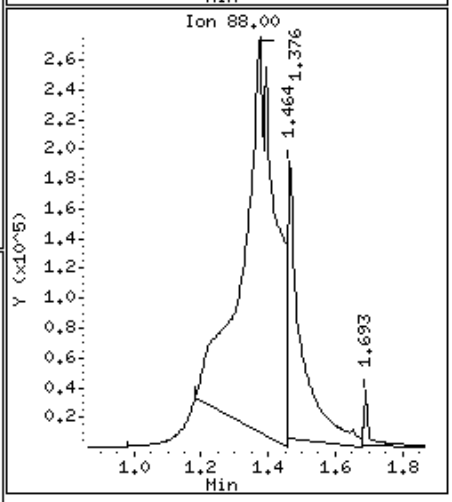
1 1,4-Dioxane

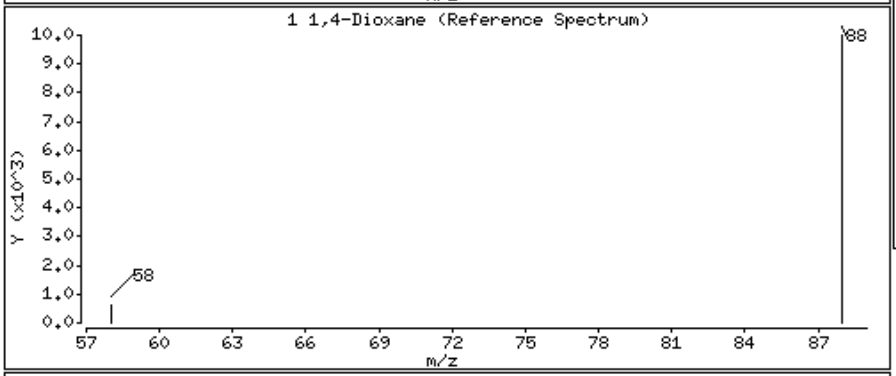
Concentration: 7.995 ug/L

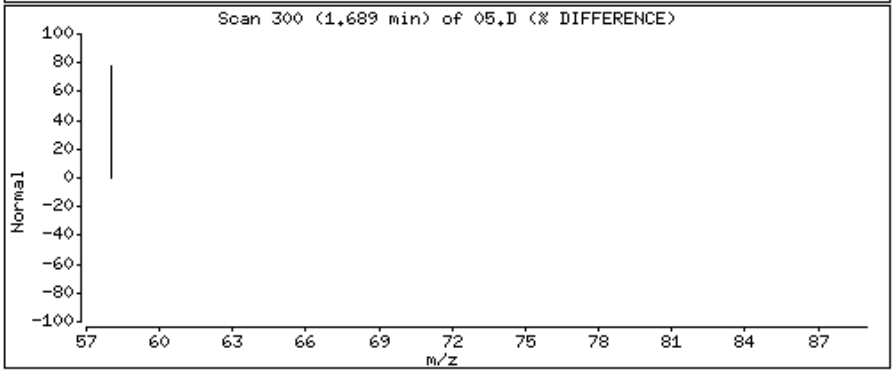












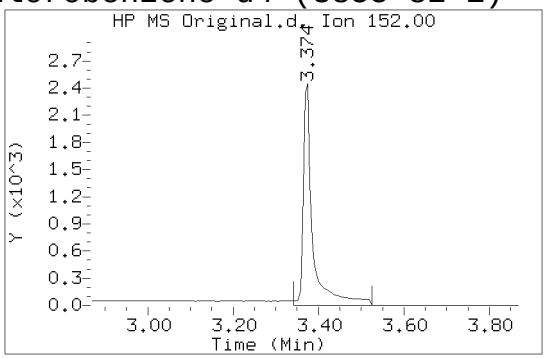
Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\05.D
Inj Date : 27-AUG-2022 12:18
InstruID : SV6.i
LabSampID : HS22080927-05

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

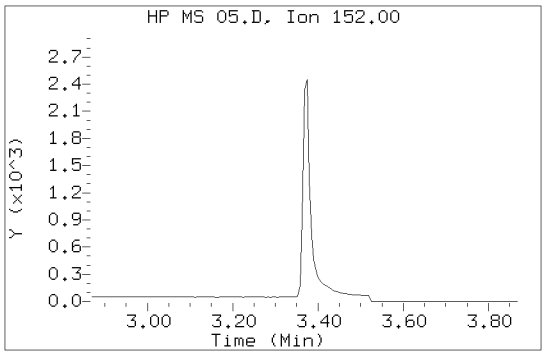
BEFORE

MASS
152
AREA
3686
HEIGHT
2449
27-Aug-2022
12:33
ALSHS
Server



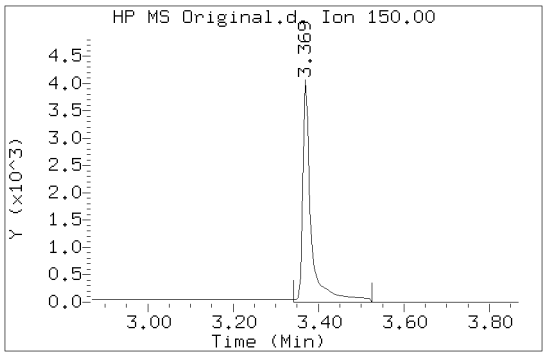
AFTER

MASS
152
AREA
5773
HEIGHT
2449
29-Aug-2022
14:10
ALSHS
Server



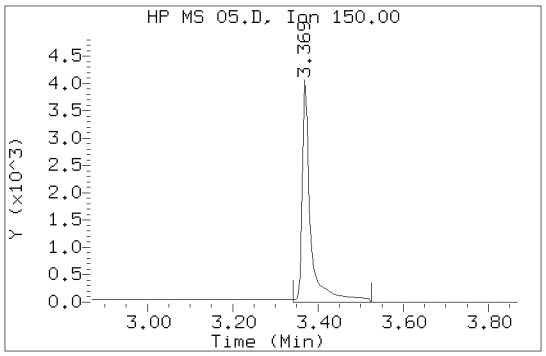
BEFORE

MASS
150
AREA
5524
HEIGHT
4068
27-Aug-2022
12:33
ALSHS
Server



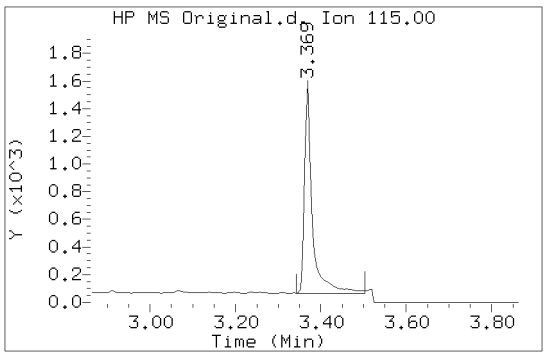
AFTER

MASS
150
AREA
5524
HEIGHT
4068
29-Aug-2022
14:10
ALSHS
Server



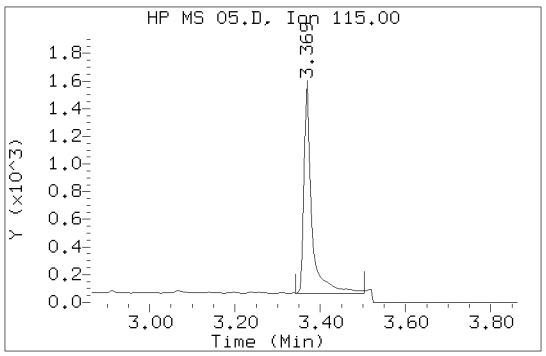
BEFORE

MASS
115
AREA
1902
HEIGHT
1535
27-Aug-2022
12:33
ALSHS
Server



AFTER

MASS
115
AREA
1902
HEIGHT
1535
29-Aug-2022
14:10
ALSHS
Server

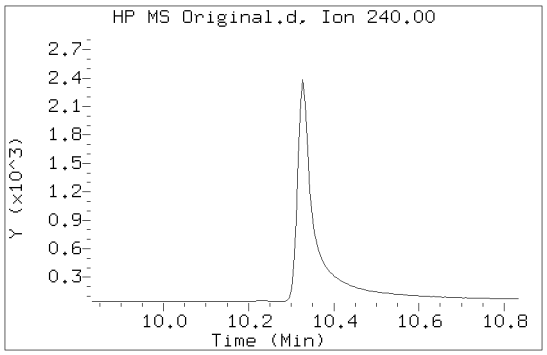


Chrysene-d12 (1719-03-5)

Reason Code:

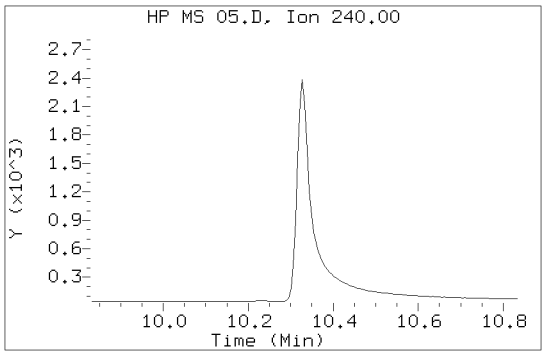
BEFORE

MASS
240
AREA
0
HEIGHT
0
27-Aug-2022
12:33
ALSHS
Server



AFTER

MASS
240
AREA
6983
HEIGHT
2330
29-Aug-2022
14:10
ALSHS
Server



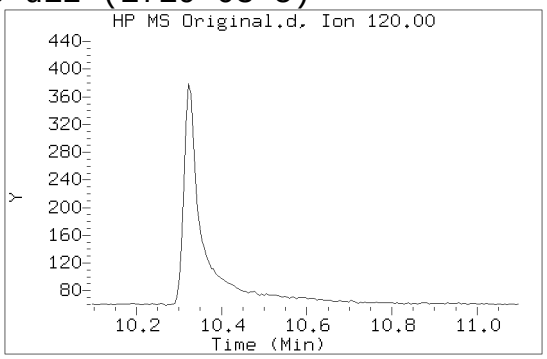
Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\05.D
Inj Date : 27-AUG-2022 12:18
InstruID : SV6.i
LabSampID : HS22080927-05

Chrysene-d12 (1719-03-5)

Reason Code:

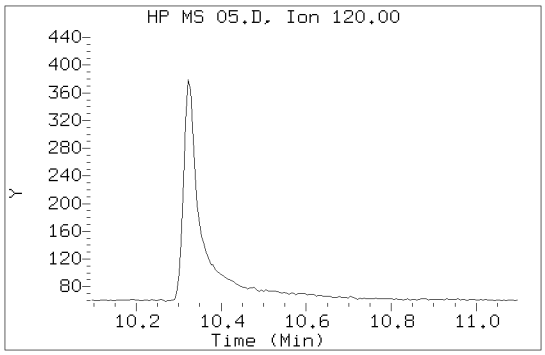
BEFORE

MASS
120
AREA
0
HEIGHT
0
27-Aug-2022
12:33
ALSHS
Server



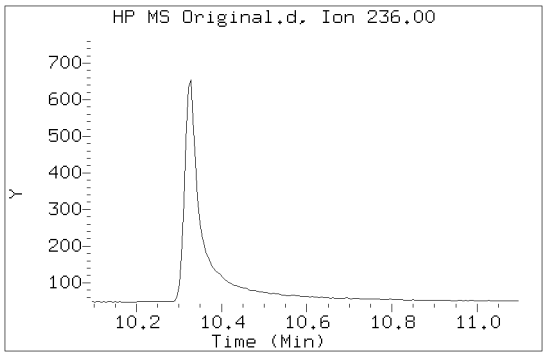
AFTER

MASS
120
AREA
0
HEIGHT
0
29-Aug-2022
14:10
ALSHS
Server



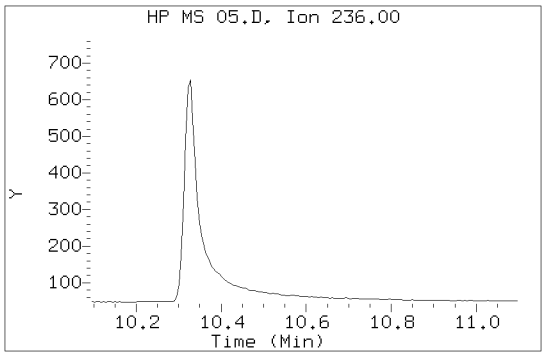
BEFORE

MASS
236
AREA
0
HEIGHT
0
27-Aug-2022
12:33
ALSHS
Server



AFTER

MASS
236
AREA
0
HEIGHT
0
29-Aug-2022
14:10
ALSHS
Server

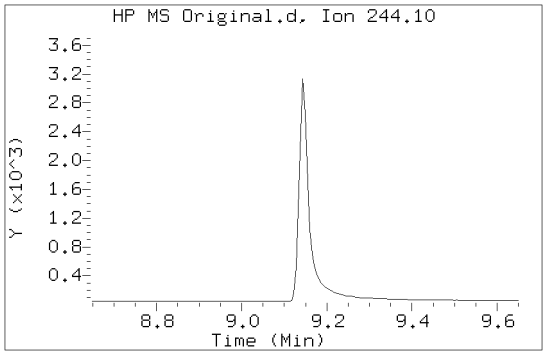


4-Terphenyl-d14 (1718-51-0)

Reason Code:

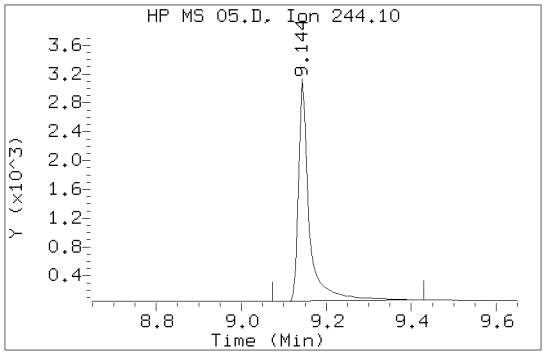
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
27-Aug-2022
12:33
ALSHS
Server



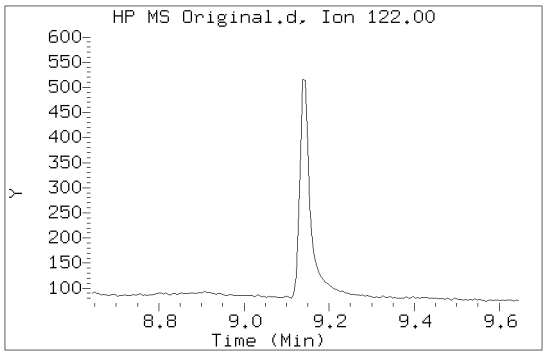
AFTER

MASS
244.1
AREA
5367
HEIGHT
3081
29-Aug-2022
14:10
ALSHS
Server



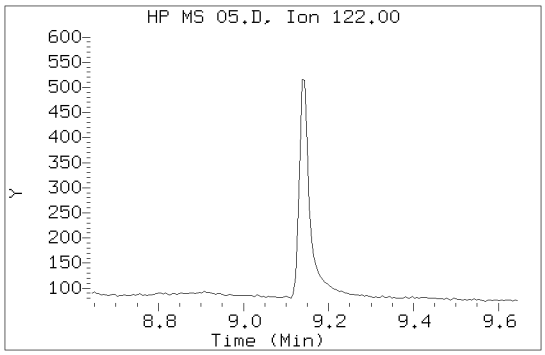
BEFORE

MASS
122
AREA
0
HEIGHT
0
27-Aug-2022
12:33
ALSHS
Server



AFTER

MASS
122
AREA
0
HEIGHT
0
29-Aug-2022
14:10
ALSHS
Server

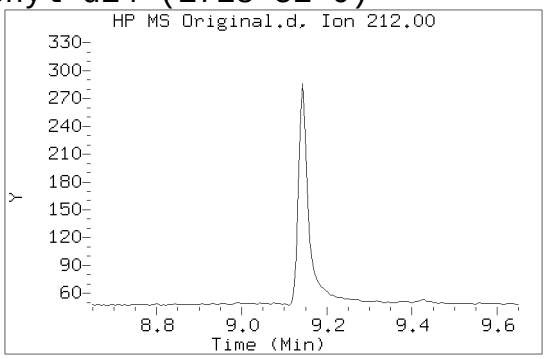


Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\05.D
Inj Date : 27-AUG-2022 12:18
InstruID : SV6.i
LabSampID : HS22080927-05

4-Terphenyl-d14 (1718-51-0)

BEFORE

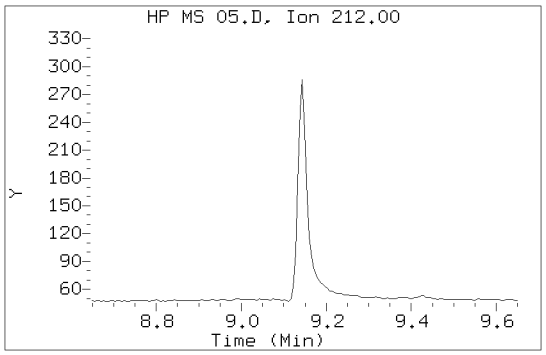
MASS
212
AREA
0
HEIGHT
0
27-Aug-2022
12:33
ALSHS
Server



AFTER

MASS
212
AREA
0
HEIGHT
0
29-Aug-2022
14:10
ALSHS
Server

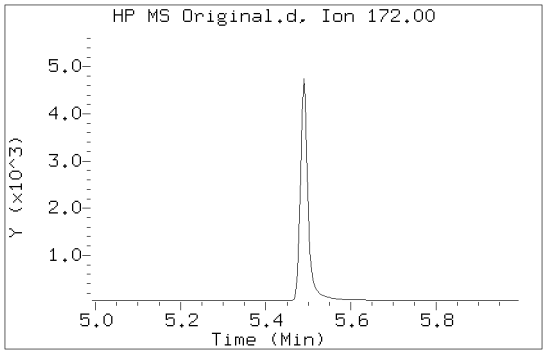
Reason Code:



2-Fluorobiphenyl (321-60-8)

BEFORE

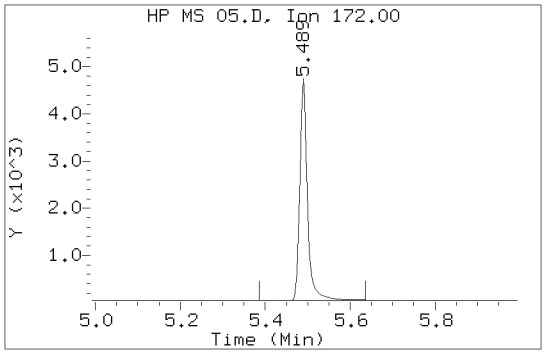
MASS
172
AREA
0
HEIGHT
0
27-Aug-2022
12:33
ALSHS
Server



AFTER

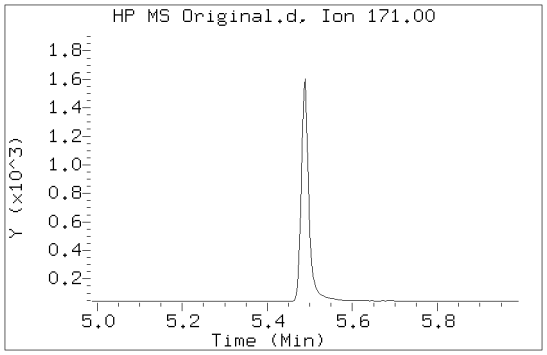
MASS
172
AREA
5850
HEIGHT
4696
29-Aug-2022
14:10
ALSHS
Server

Reason Code:



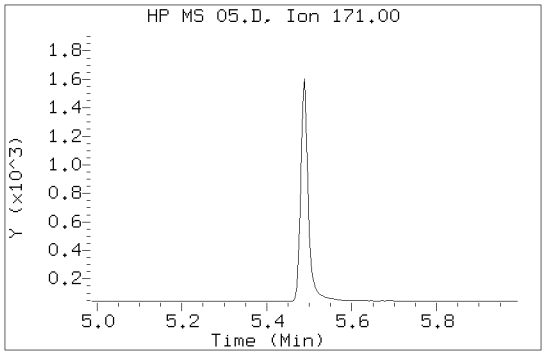
BEFORE

MASS
171
AREA
0
HEIGHT
0
27-Aug-2022
12:33
ALSHS
Server



AFTER

MASS
171
AREA
0
HEIGHT
0
29-Aug-2022
14:10
ALSHS
Server



Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\06.D Page 1
Report Date: 30-Aug-2022 15:45

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220827.b\06.D
Lab Smp Id: HS22080927-06
Inj Date : 27-AUG-2022 12:36
Operator : LG Inst ID: SV6.i
Smp Info : HS22080927-06
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\220827.b\DXSIM.m
Meth Date : 29-Aug-2022 09:27 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 12:56 Cal File: 009.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	3.368	3.368	(1.000)	5049	0.10000	(aM)
* 45 Naphthalene-d8	136	4.471	4.471	(1.000)	12199	0.10000	
$ 33 Nitrobenzene-d5	82	3.830	3.830	(0.857)	2973	0.07311	0.07311(M)
* 86 Acenaphthene-d10	164	6.133	6.138	(1.000)	7462	0.10000	(Q)
$ 69 2-Fluorobiphenyl	172	5.489	5.492	(0.895)	5757	0.04956	0.04956(M)
* 126 Phenanthrene-d10	188	7.573	7.578	(1.000)	11102	0.10000	
* 182 Chrysene-d12	240	10.327	10.332	(1.000)	6310	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.143	9.148	(0.885)	5534	0.04665	0.04665(M)
* 198 Perylene-d12	264	12.314	12.319	(1.000)	4748	0.10000	
1 1,4-Dioxane	58	1.644	1.670	(0.488)	45	0.02171	0.02171(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.

01140229

Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\06.D

Date : 27-AUG-2022 12:36

Client ID:

Instrument: SV6.i

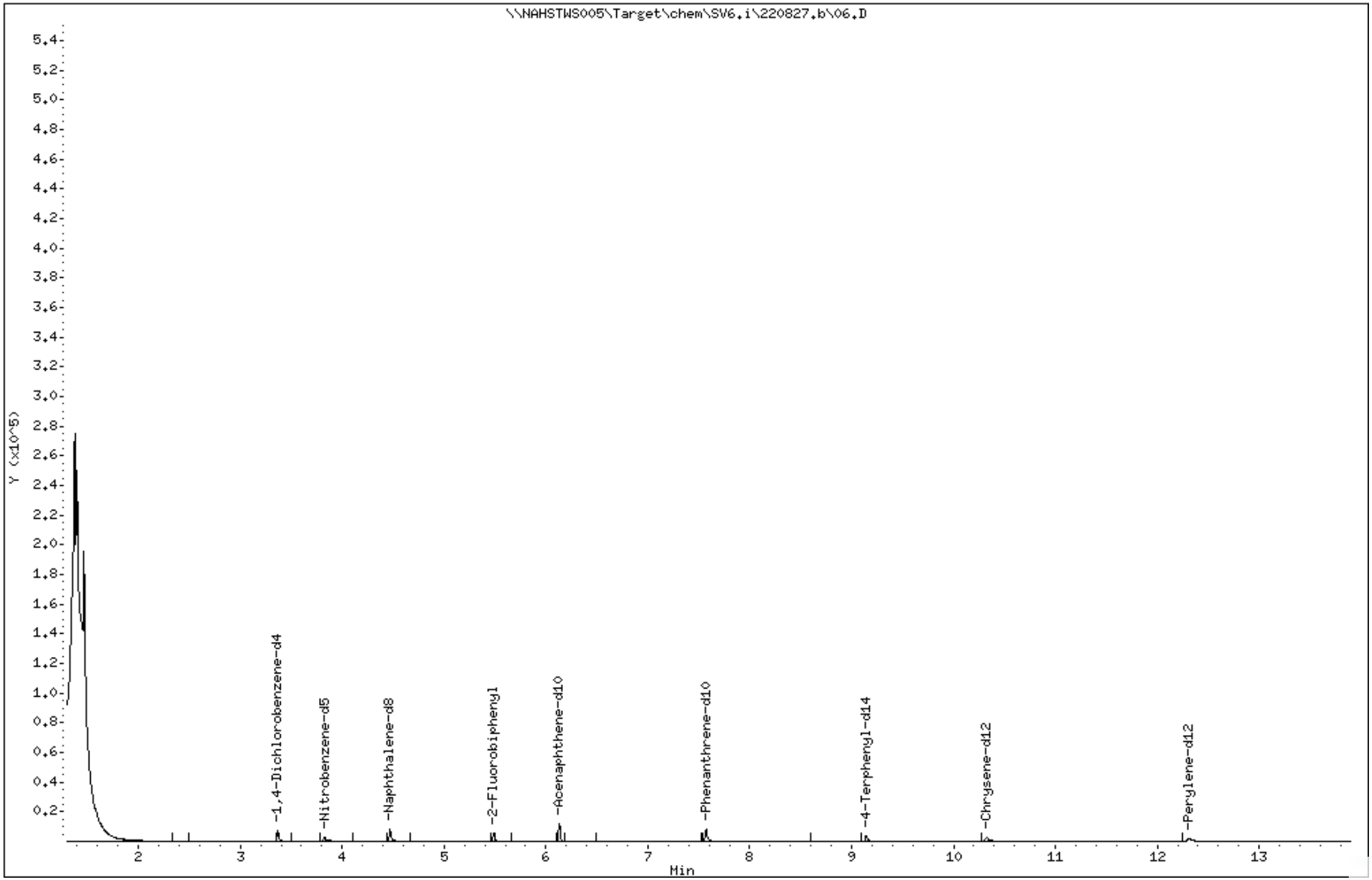
Sample Info: HS22080927-06

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\06.D

Date : 27-AUG-2022 12:36

Client ID:

Instrument: SV6.i

Sample Info: HS22080927-06

Purge Volume: 1000.0

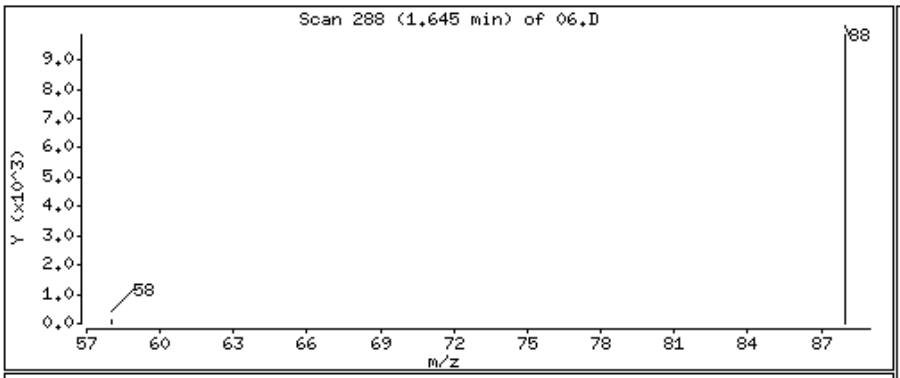
Operator: LG

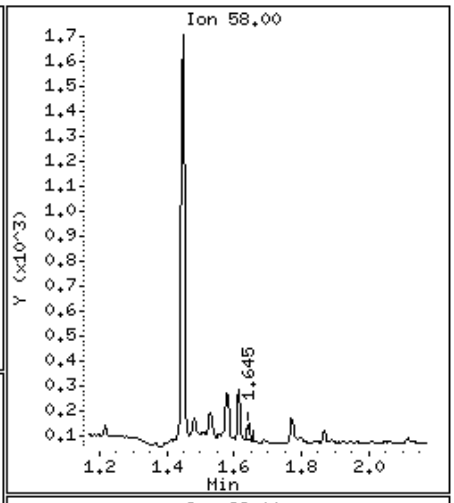
Column phase: RTX-5SIL MS

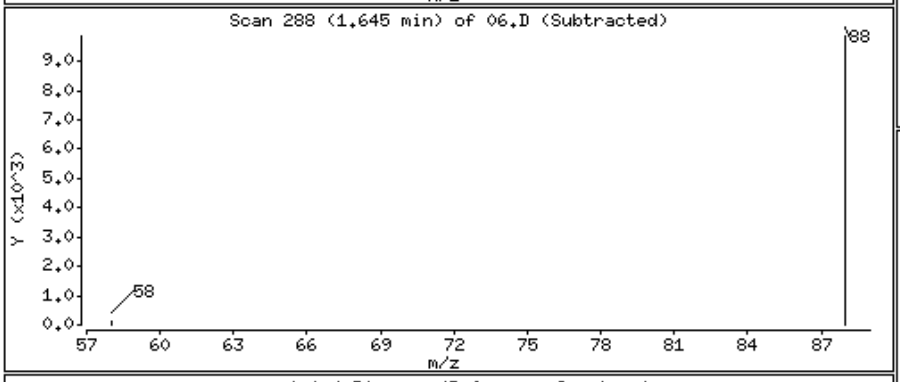
Column diameter: 0.28

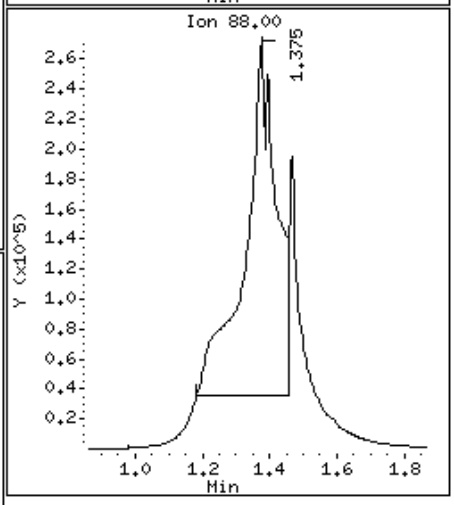
1 1,4-Dioxane

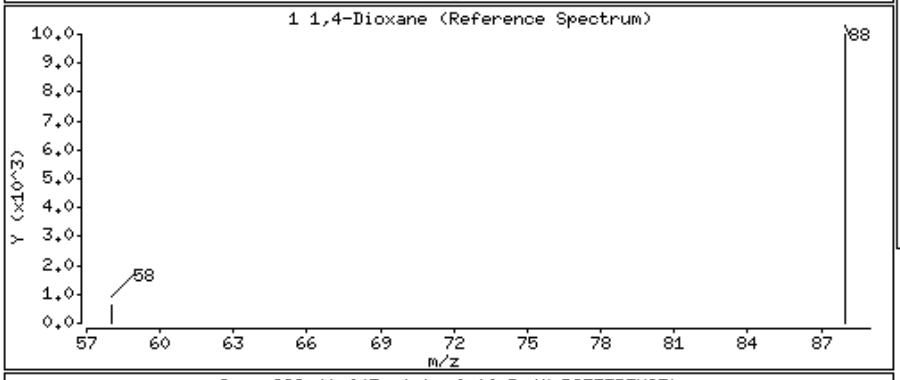
Concentration: 0.02171 ug/L

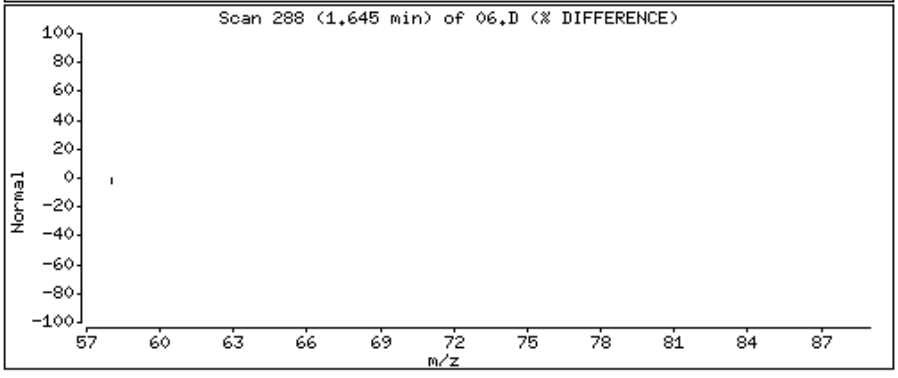












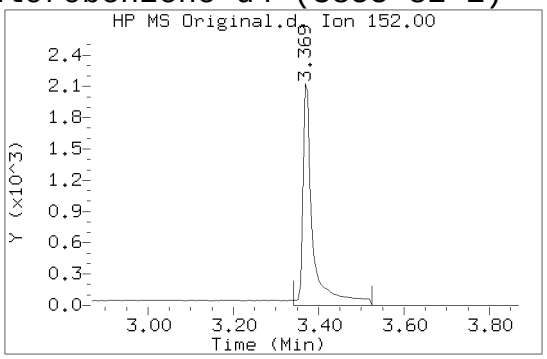
Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\06.D
Inj Date : 27-AUG-2022 12:36
InstruID : SV6.i
LabSampID : HS22080927-06

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

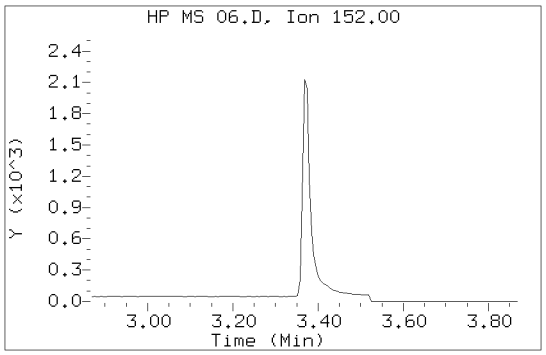
BEFORE

MASS
152
AREA
3377
HEIGHT
2126
27-Aug-2022
12:50
ALSHS
Server



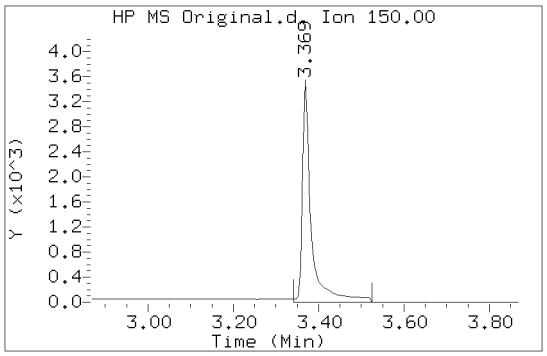
AFTER

MASS
152
AREA
5049
HEIGHT
2126
30-Aug-2022
15:45



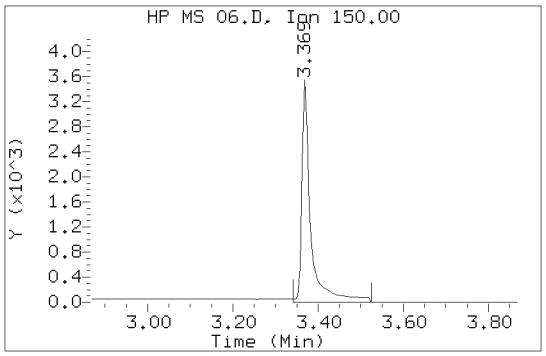
BEFORE

MASS
150
AREA
5042
HEIGHT
3550
27-Aug-2022
12:50
ALSHS
Server



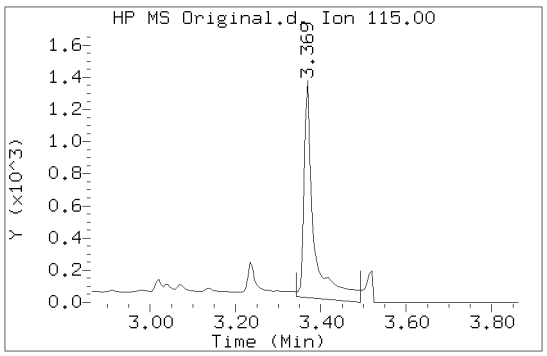
AFTER

MASS
150
AREA
5042
HEIGHT
3550
30-Aug-2022
15:45



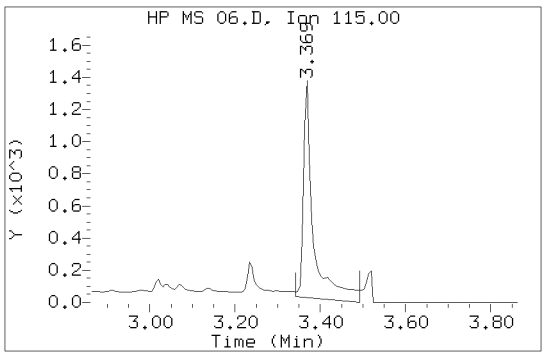
BEFORE

MASS
115
AREA
2172
HEIGHT
1351
27-Aug-2022
12:50
ALSHS
Server



AFTER

MASS
115
AREA
2172
HEIGHT
1351
30-Aug-2022
15:45

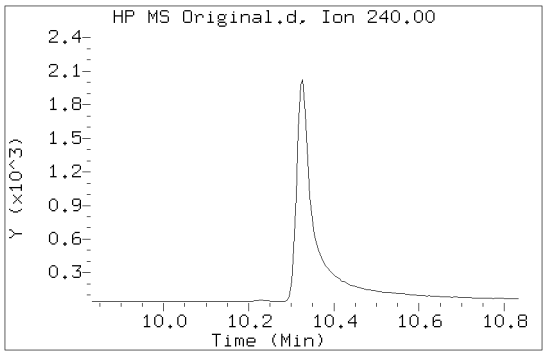


Chrysene-d12 (1719-03-5)

Reason Code:

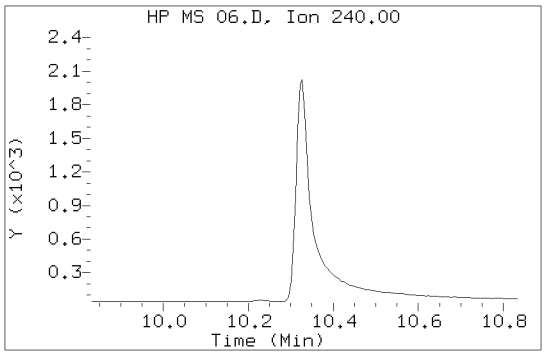
BEFORE

MASS
240
AREA
0
HEIGHT
0
27-Aug-2022
12:50
ALSHS
Server



AFTER

MASS
240
AREA
6310
HEIGHT
1969
30-Aug-2022
15:45

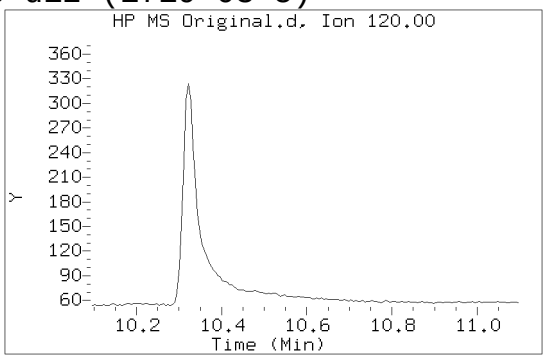


Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\06.D
Inj Date : 27-AUG-2022 12:36
InstruID : SV6.i
LabSampID : HS22080927-06

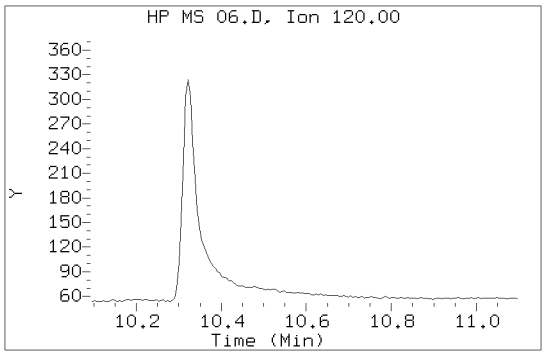
Chrysene-d12 (1719-03-5)

Reason Code:

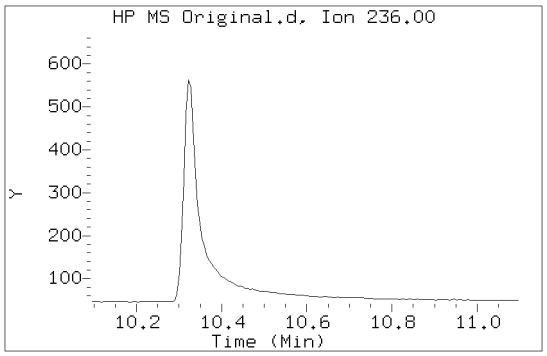
BEFORE
MASS
120
AREA
0
HEIGHT
0
27-Aug-2022
12:50
ALSHS
Server



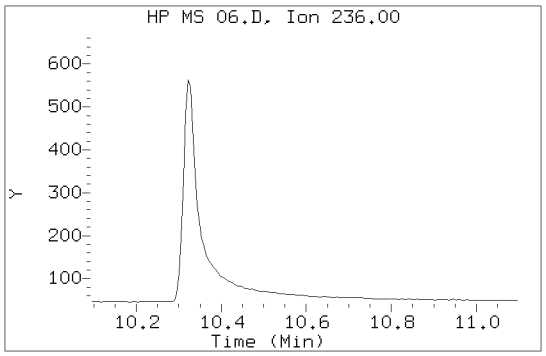
AFTER
MASS
120
AREA
0
HEIGHT
0
30-Aug-2022
15:45



BEFORE
MASS
236
AREA
0
HEIGHT
0
27-Aug-2022
12:50
ALSHS
Server



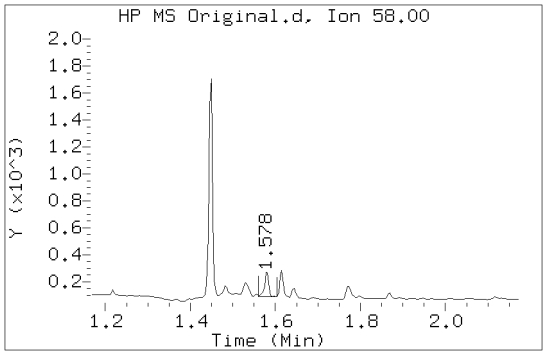
AFTER
MASS
236
AREA
0
HEIGHT
0
30-Aug-2022
15:45



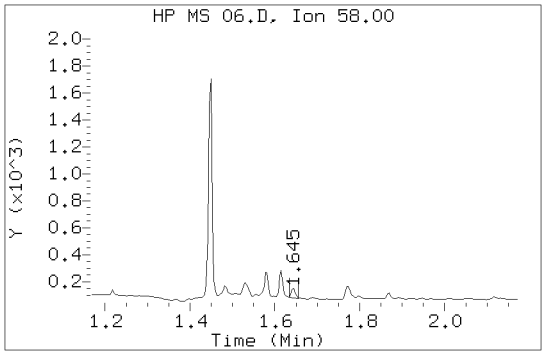
1,4-Dioxane ()

Reason Code:

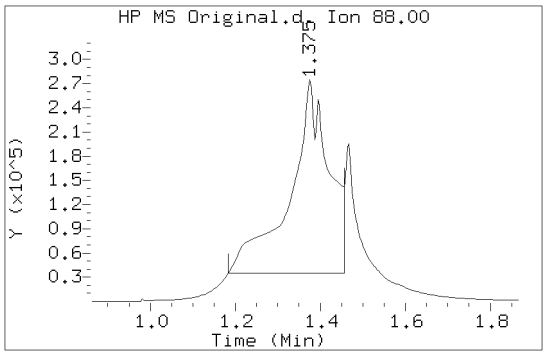
BEFORE
MASS
58
AREA
135
HEIGHT
182
27-Aug-2022
12:50
ALSHS
Server



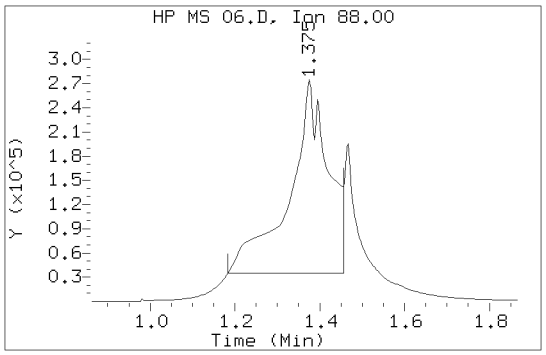
AFTER
MASS
58
AREA
45
HEIGHT
70
30-Aug-2022
15:45



BEFORE
MASS
88
AREA
1533193
HEIGHT
239584
27-Aug-2022
12:50
ALSHS
Server



AFTER
MASS
88
AREA
1533193
HEIGHT
239584
30-Aug-2022
15:45



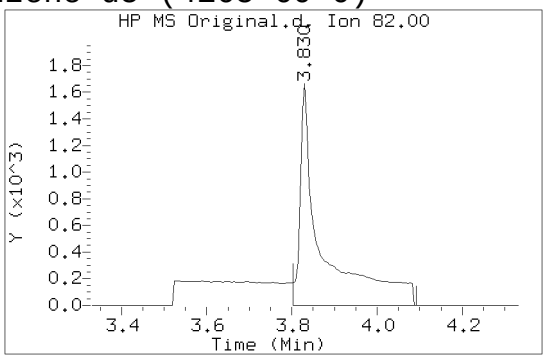
Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\06.D
Inj Date : 27-AUG-2022 12:36
InstruID : SV6.i
LabSampID : HS22080927-06

Nitrobenzene-d5 (4165-60-0)

Reason Code:

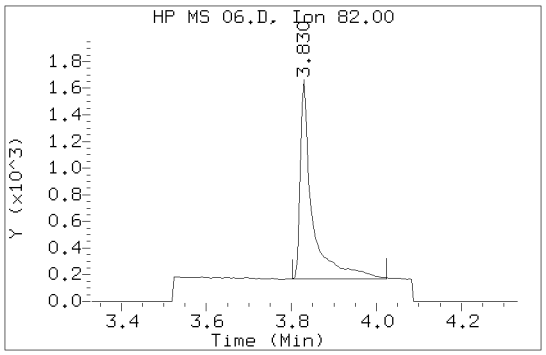
BEFORE

MASS
82
AREA
5798
HEIGHT
1664
27-Aug-2022
12:50
ALSHS
Server



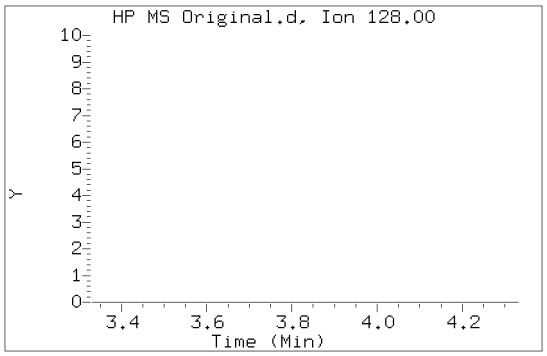
AFTER

MASS
82
AREA
2973
HEIGHT
1497
30-Aug-2022
15:45



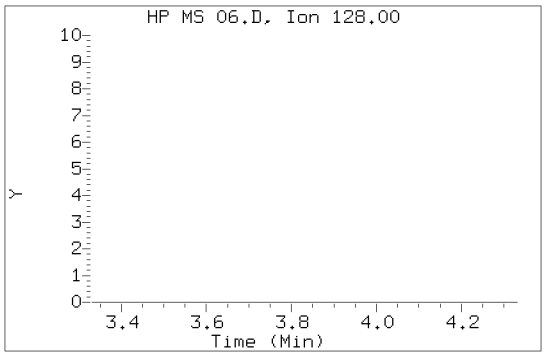
BEFORE

MASS
128
AREA
0
HEIGHT
0
27-Aug-2022
12:50
ALSHS
Server



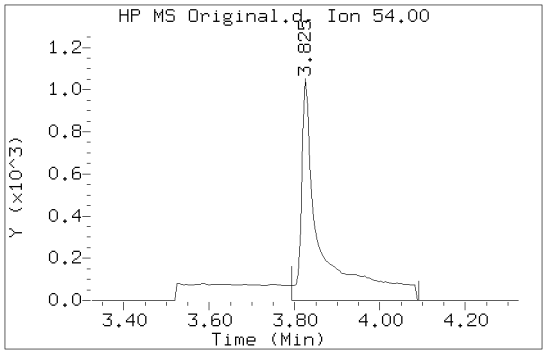
AFTER

MASS
128
AREA
0
HEIGHT
0
30-Aug-2022
15:45



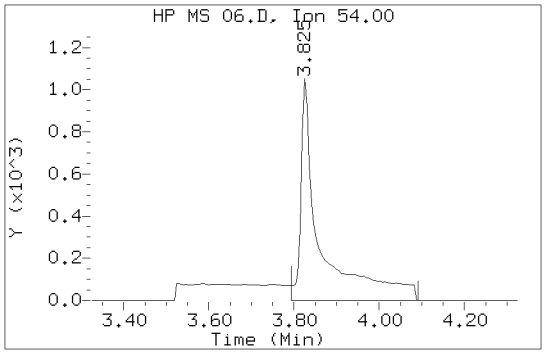
BEFORE

MASS
54
AREA
3270
HEIGHT
1052
27-Aug-2022
12:50
ALSHS
Server



AFTER

MASS
54
AREA
3270
HEIGHT
1052
30-Aug-2022
15:45

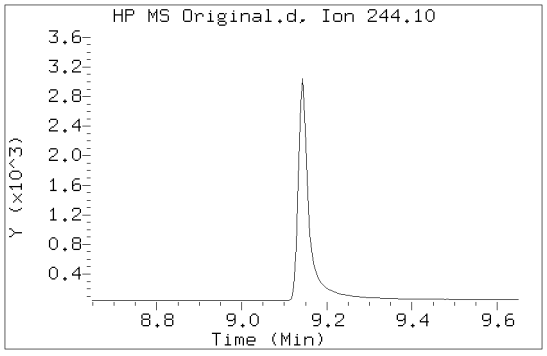


4-Terphenyl-d14 (1718-51-0)

Reason Code:

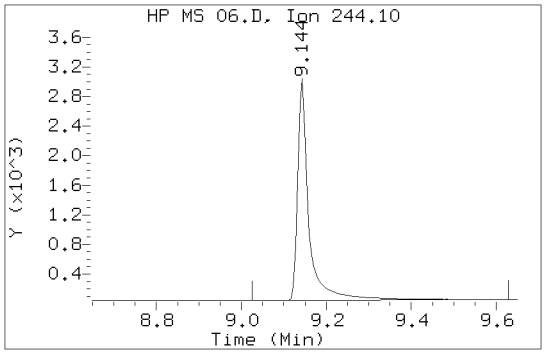
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
27-Aug-2022
12:50
ALSHS
Server



AFTER

MASS
244.1
AREA
5534
HEIGHT
2995
30-Aug-2022
15:45

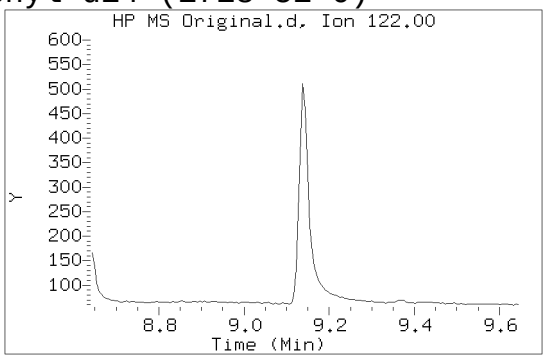


Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\06.D
Inj Date : 27-AUG-2022 12:36
InstruID : SV6.i
LabSampID : HS22080927-06

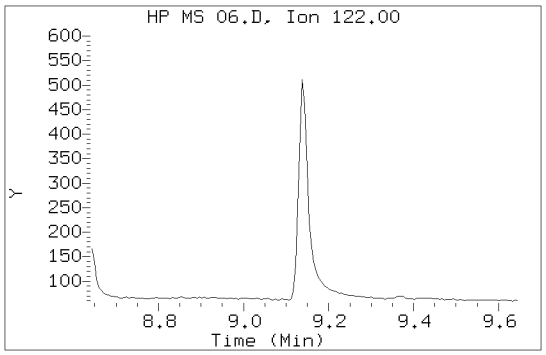
4-Terphenyl-d14 (1718-51-0)

Reason Code:

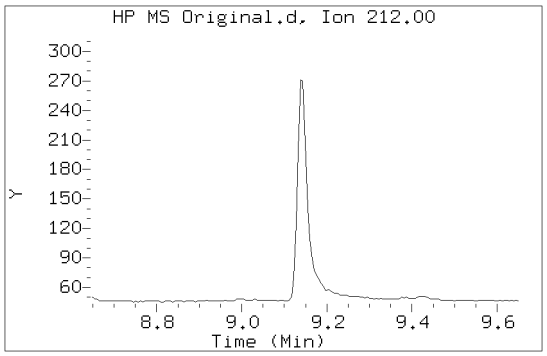
BEFORE
MASS
122
AREA
0
HEIGHT
0
27-Aug-2022
12:50
ALSHS
Server



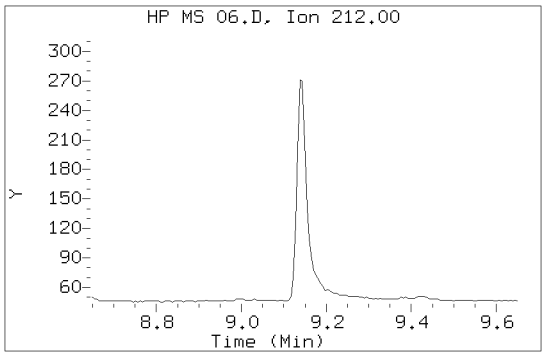
AFTER
MASS
122
AREA
0
HEIGHT
0
30-Aug-2022
15:45



BEFORE
MASS
212
AREA
0
HEIGHT
0
27-Aug-2022
12:50
ALSHS
Server



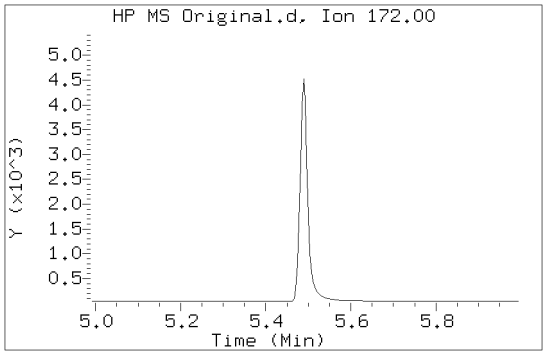
AFTER
MASS
212
AREA
0
HEIGHT
0
30-Aug-2022
15:45



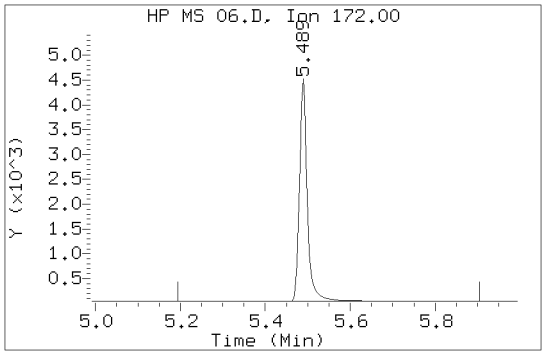
2-Fluorobiphenyl (321-60-8)

Reason Code:

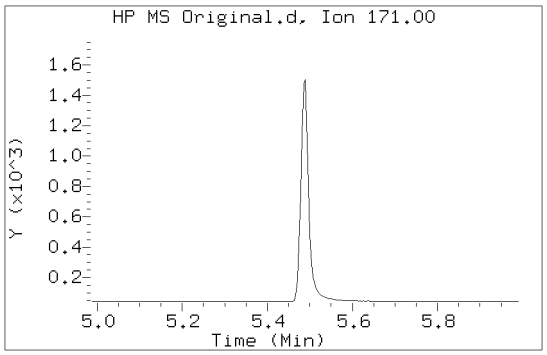
BEFORE
MASS
172
AREA
0
HEIGHT
0
27-Aug-2022
12:50
ALSHS
Server



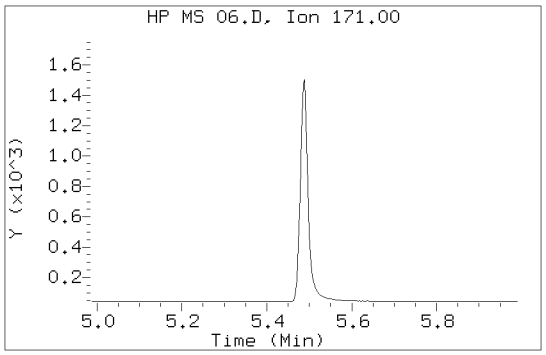
AFTER
MASS
172
AREA
5757
HEIGHT
4476
30-Aug-2022
15:45



BEFORE
MASS
171
AREA
0
HEIGHT
0
27-Aug-2022
12:50
ALSHS
Server



AFTER
MASS
171
AREA
0
HEIGHT
0
30-Aug-2022
15:45



Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\07.D Page 1
Report Date: 07-Sep-2022 12:15

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220827.b\07.D
Lab Smp Id: HS22080927-07
Inj Date : 27-AUG-2022 12:54
Operator : LG Inst ID: SV6.i
Smp Info : HS22080927-07
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220827.b\DXSIM.m
Meth Date : 29-Aug-2022 09:27 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 12:56 Cal File: 009.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	3.368	3.368	(1.000)	5863	0.10000	(aM)
* 45 Naphthalene-d8	136	4.471	4.471	(1.000)	13253	0.10000	
$ 33 Nitrobenzene-d5	82	3.830	3.830	(0.857)	2962	0.06705	0.06705(M)
* 86 Acenaphthene-d10	164	6.133	6.138	(1.000)	7960	0.10000	(Q)
$ 69 2-Fluorobiphenyl	172	5.489	5.492	(0.895)	6508	0.05252	0.05252(M)
* 126 Phenanthrene-d10	188	7.573	7.578	(1.000)	12025	0.10000	
* 182 Chrysene-d12	240	10.327	10.332	(1.000)	6677	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.143	9.148	(0.885)	5854	0.04663	0.04663(M)
* 198 Perylene-d12	264	12.314	12.319	(1.000)	4379	0.10000	(M)
1 1,4-Dioxane	58	1.644	1.670	(0.488)	158	0.06564	0.06564(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.

01140236

Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\07.D

Date : 27-AUG-2022 12:54

Client ID:

Instrument: SV6.i

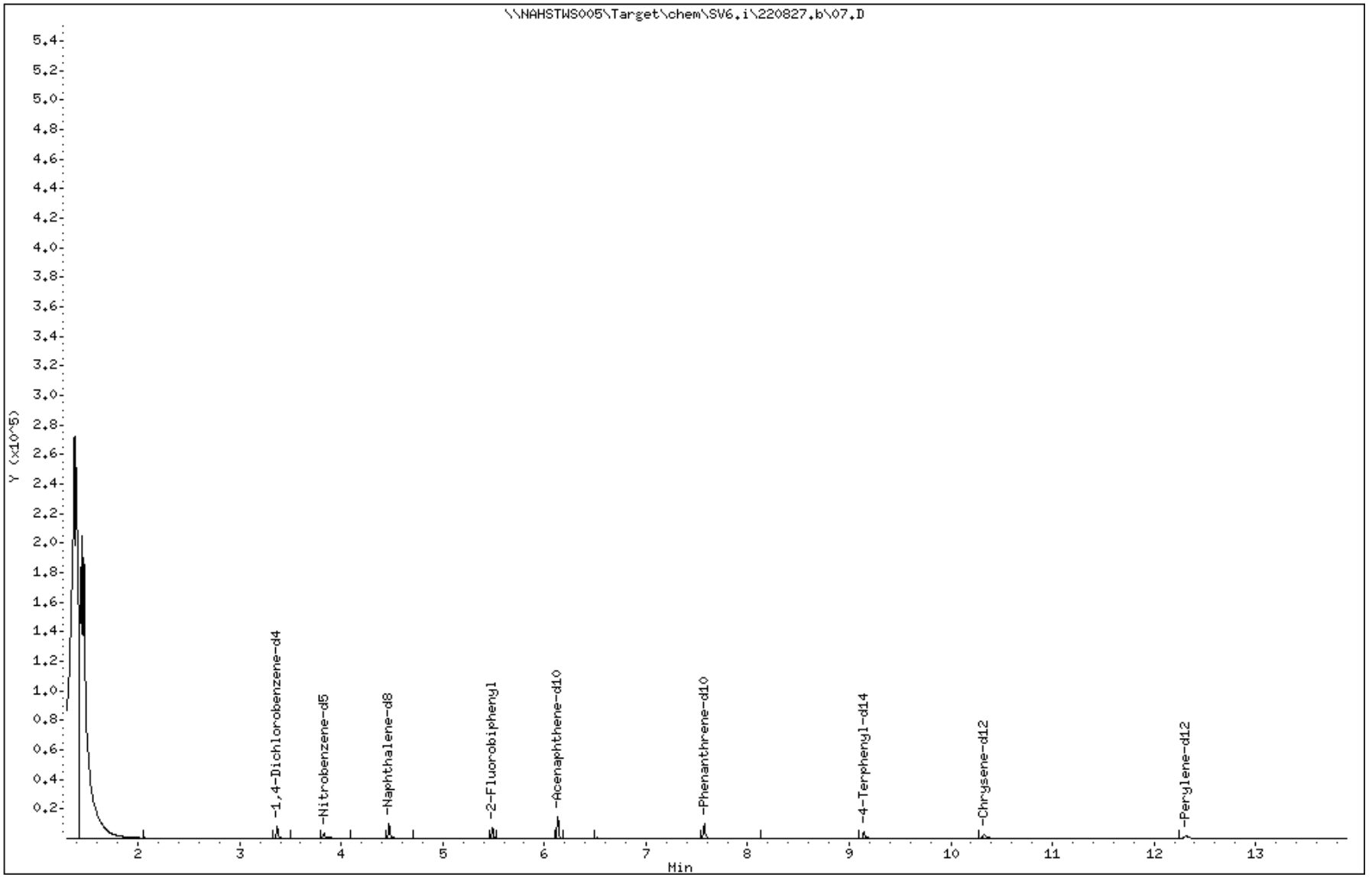
Sample Info: HS22080927-07

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\07.D

Date : 27-AUG-2022 12:54

Client ID:

Instrument: SV6.i

Sample Info: HS22080927-07

Purge Volume: 1000.0

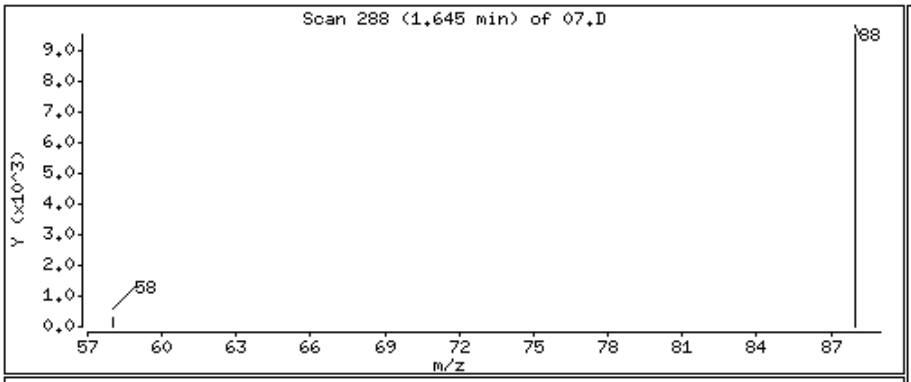
Operator: LG

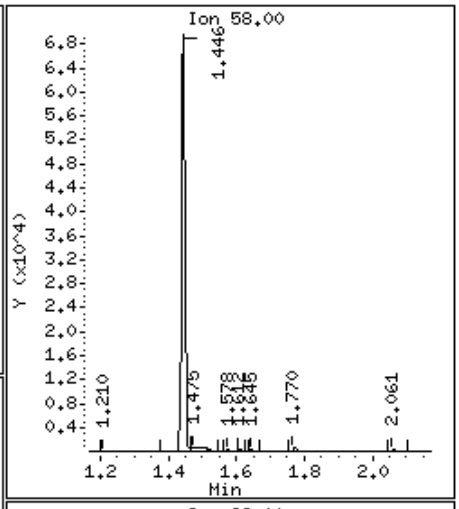
Column phase: RTX-5SIL MS

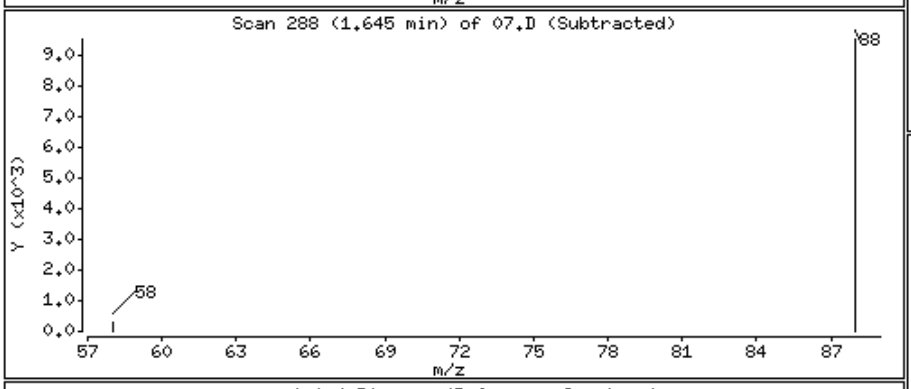
Column diameter: 0.28

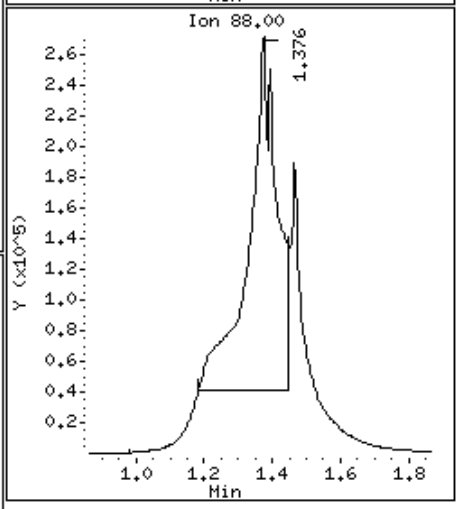
1 1,4-Dioxane

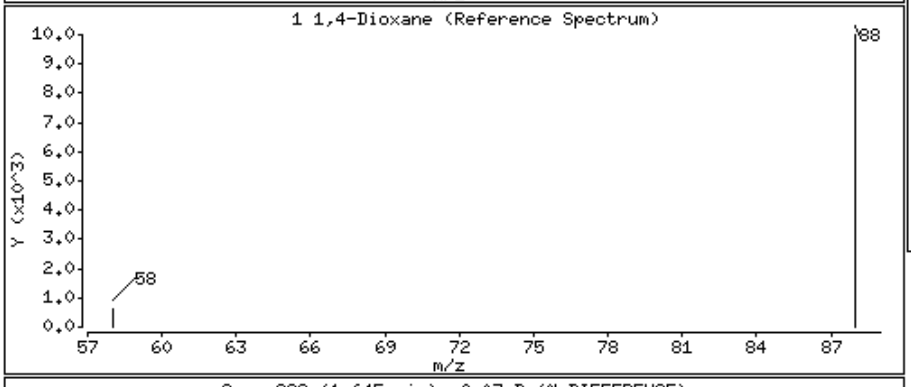
Concentration: 0.06564 ug/L

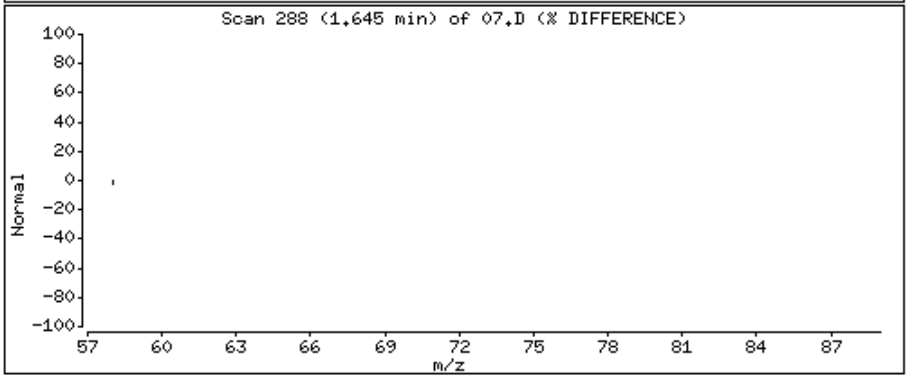












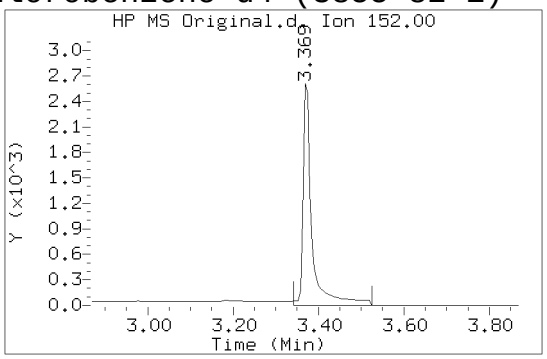
Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\07.D
Inj Date : 27-AUG-2022 12:54
InstruID : SV6.i
LabSampID : HS22080927-07

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

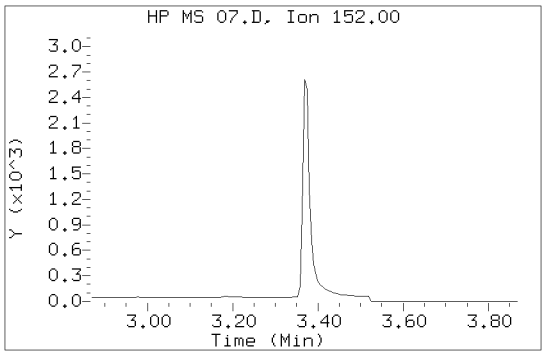
BEFORE

MASS
152
AREA
3692
HEIGHT
2609
27-Aug-2022
13:09
ALSHS
Server



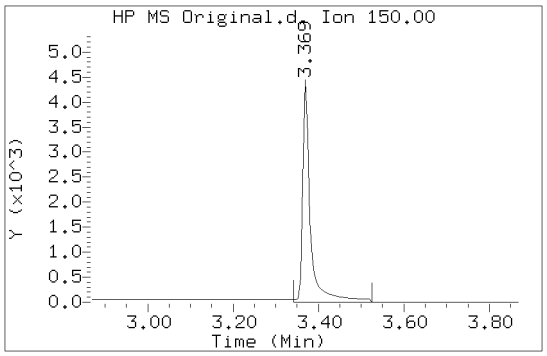
AFTER

MASS
152
AREA
5863
HEIGHT
2609
07-Sep-2022
12:15
ALSHS
Ser



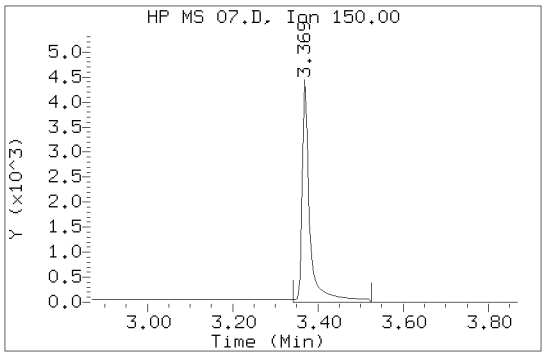
BEFORE

MASS
150
AREA
5520
HEIGHT
4442
27-Aug-2022
13:09
ALSHS
Server



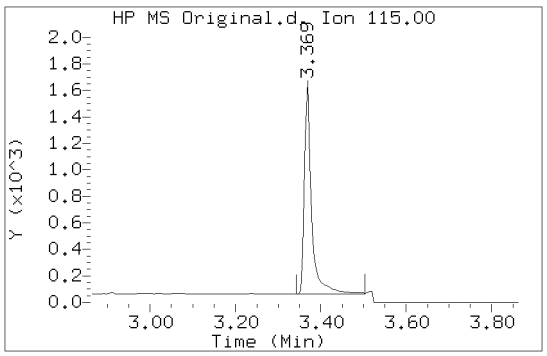
AFTER

MASS
150
AREA
5520
HEIGHT
4442
07-Sep-2022
12:15
ALSHS
Ser



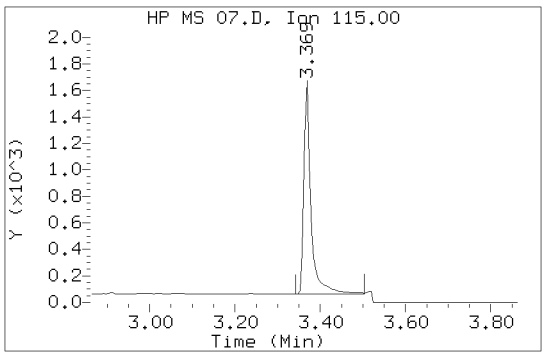
BEFORE

MASS
115
AREA
1857
HEIGHT
1611
27-Aug-2022
13:09
ALSHS
Server



AFTER

MASS
115
AREA
1857
HEIGHT
1611
07-Sep-2022
12:15
ALSHS
Ser

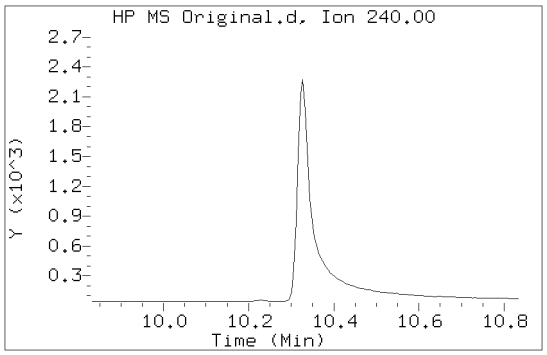


Chrysene-d12 (1719-03-5)

Reason Code:

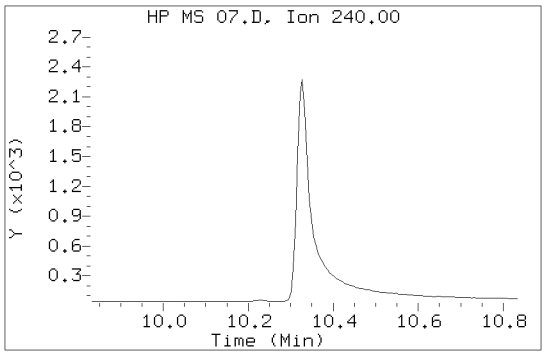
BEFORE

MASS
240
AREA
0
HEIGHT
0
27-Aug-2022
13:09
ALSHS
Server



AFTER

MASS
240
AREA
6677
HEIGHT
2221
07-Sep-2022
12:15
ALSHS
Ser

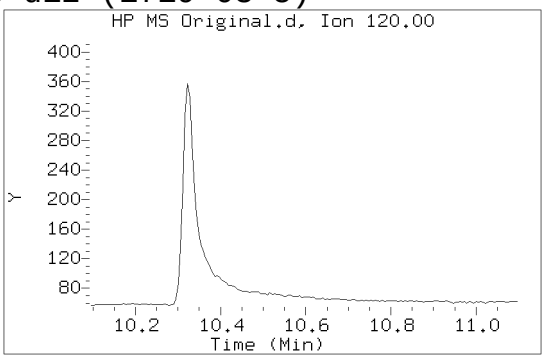


Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\07.D
Inj Date : 27-AUG-2022 12:54
InstruID : SV6.i
LabSampID : HS22080927-07

Chrysene-d12 (1719-03-5)

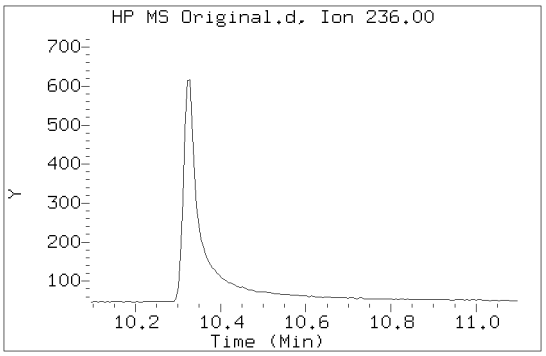
BEFORE

MASS
120
AREA
0
HEIGHT
0
27-Aug-2022
13:09
ALSHS
Server



BEFORE

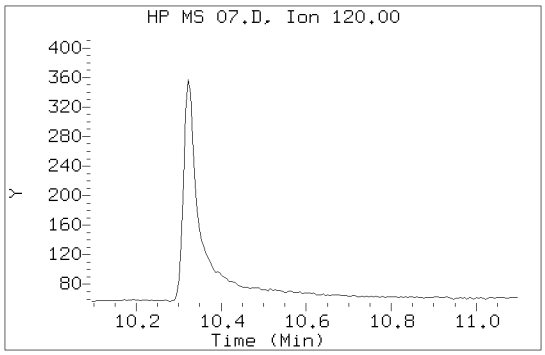
MASS
236
AREA
0
HEIGHT
0
27-Aug-2022
13:09
ALSHS
Server



Reason Code:

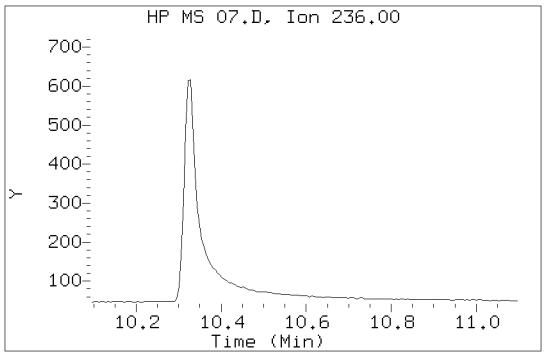
AFTER

MASS
120
AREA
0
HEIGHT
0
07-Sep-2022
12:15
ALSHS
Ser



AFTER

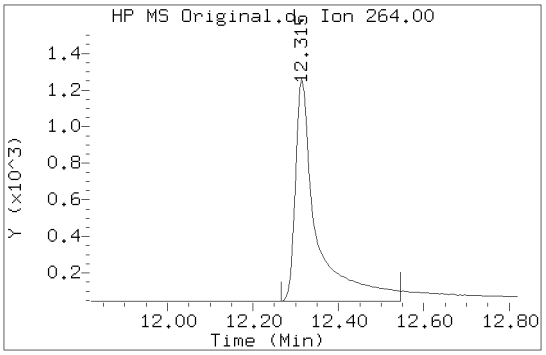
MASS
236
AREA
0
HEIGHT
0
07-Sep-2022
12:15
ALSHS
Ser



Perylene-d12 (1520-96-3)

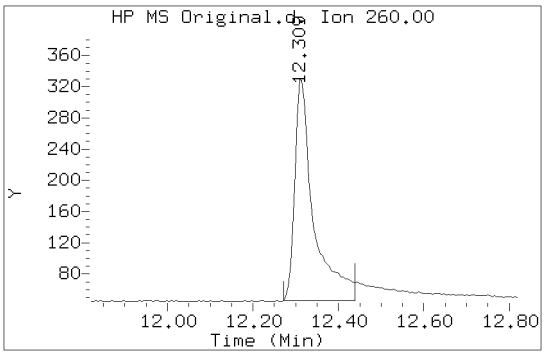
BEFORE

MASS
264
AREA
4177
HEIGHT
1214
27-Aug-2022
13:09
ALSHS
Server



BEFORE

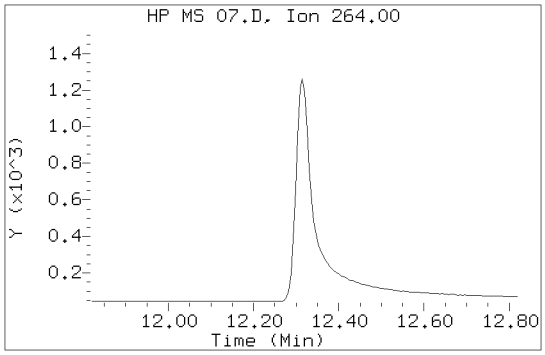
MASS
260
AREA
870
HEIGHT
283
27-Aug-2022
13:09
ALSHS
Server



Reason Code:

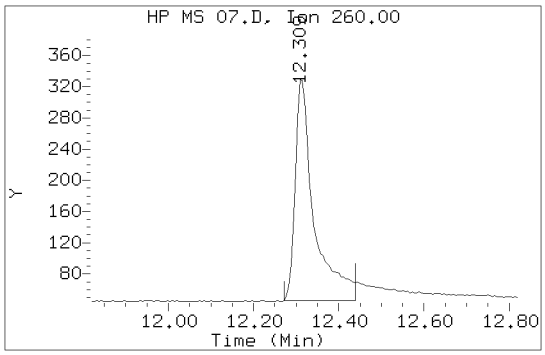
AFTER

MASS
264
AREA
4379
HEIGHT
1209
07-Sep-2022
12:15
ALSHS
Ser



AFTER

MASS
260
AREA
870
HEIGHT
283
07-Sep-2022
12:15
ALSHS
Ser

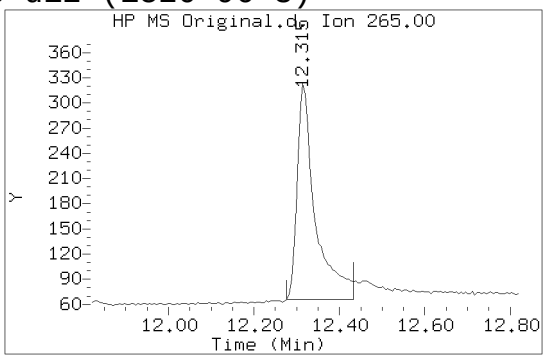


Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\07.D
Inj Date : 27-AUG-2022 12:54
InstruID : SV6.i
LabSampID : HS22080927-07

Perylene-d12 (1520-96-3)

BEFORE

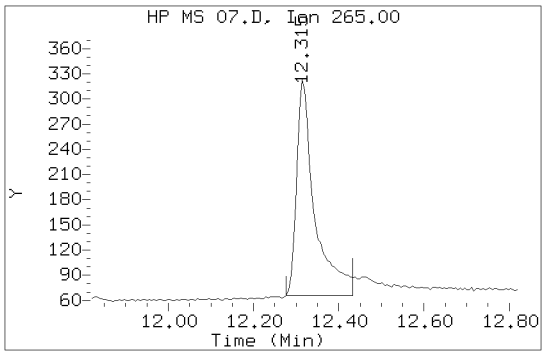
MASS
265
AREA
755
HEIGHT
257
27-Aug-2022
13:09
ALSHS
Server



Reason Code:

AFTER

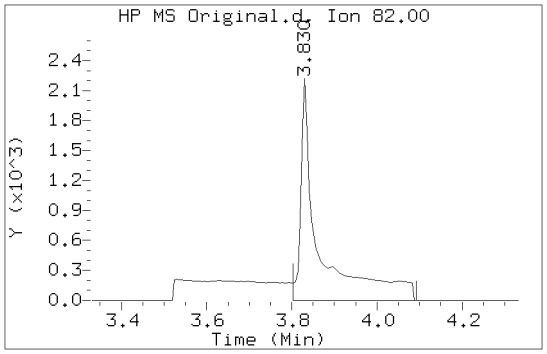
MASS
265
AREA
755
HEIGHT
257
07-Sep-2022
12:15
ALSHS
Ser



Nitrobenzene-d5 (4165-60-0)

BEFORE

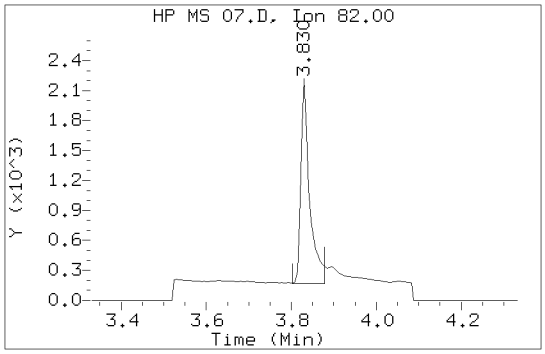
MASS
82
AREA
6463
HEIGHT
2219
27-Aug-2022
13:09
ALSHS
Server



Reason Code:

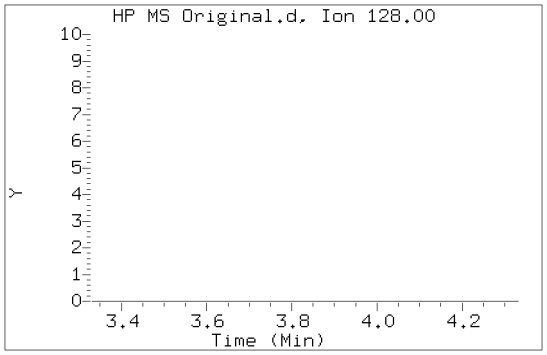
AFTER

MASS
82
AREA
2962
HEIGHT
2052
07-Sep-2022
12:15
ALSHS
Ser



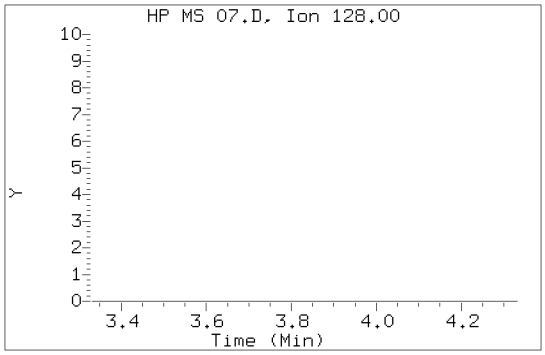
BEFORE

MASS
128
AREA
0
HEIGHT
0
27-Aug-2022
13:09
ALSHS
Server



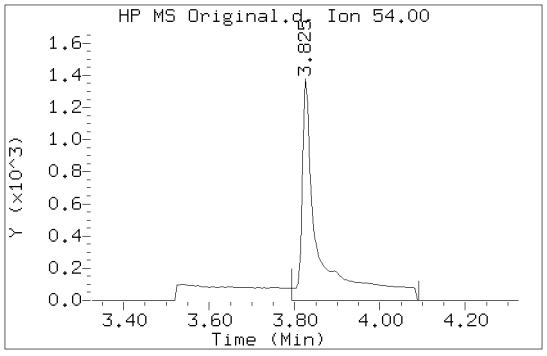
AFTER

MASS
128
AREA
0
HEIGHT
0
07-Sep-2022
12:15
ALSHS
Ser



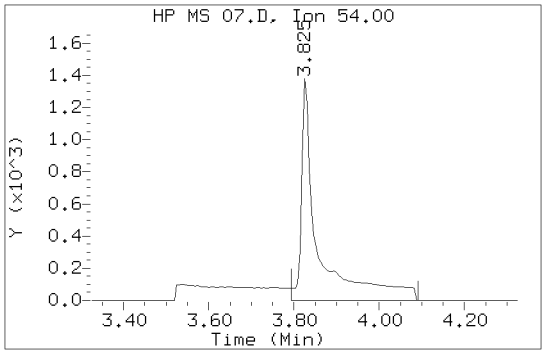
BEFORE

MASS
54
AREA
3671
HEIGHT
1379
27-Aug-2022
13:09
ALSHS
Server



AFTER

MASS
54
AREA
3671
HEIGHT
1379
07-Sep-2022
12:15
ALSHS
Ser



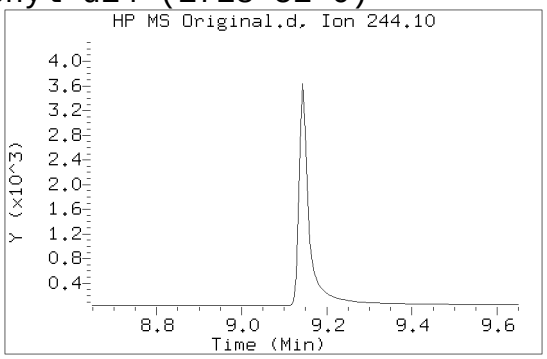
Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\07.D
Inj Date : 27-AUG-2022 12:54
InstruID : SV6.i
LabSampID : HS22080927-07

4-Terphenyl-d14 (1718-51-0)

Reason Code:

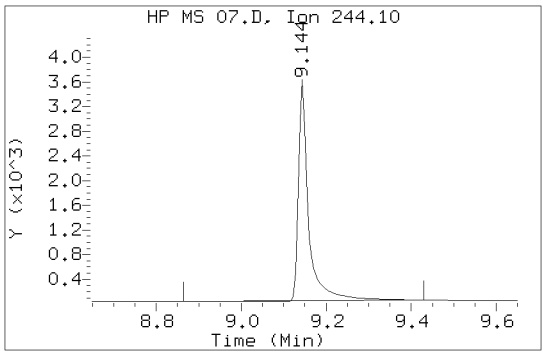
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
27-Aug-2022
13:09
ALSHS
Server



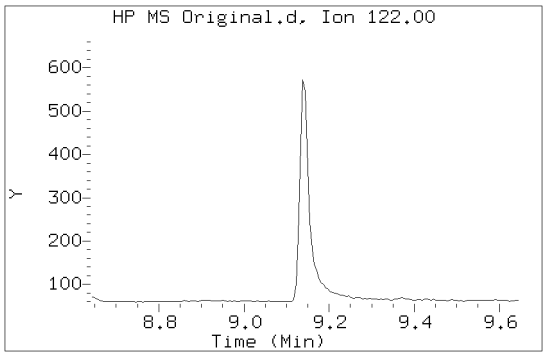
AFTER

MASS
244.1
AREA
5854
HEIGHT
3581
07-Sep-2022
12:15
ALSHS
Ser



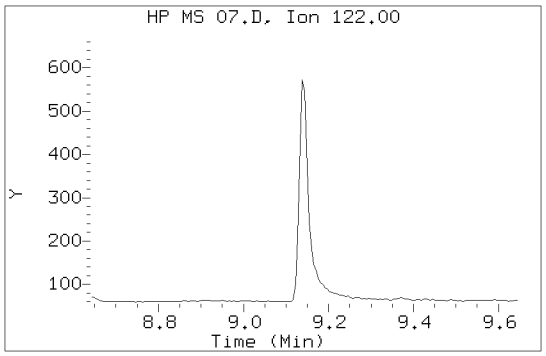
BEFORE

MASS
122
AREA
0
HEIGHT
0
27-Aug-2022
13:09
ALSHS
Server



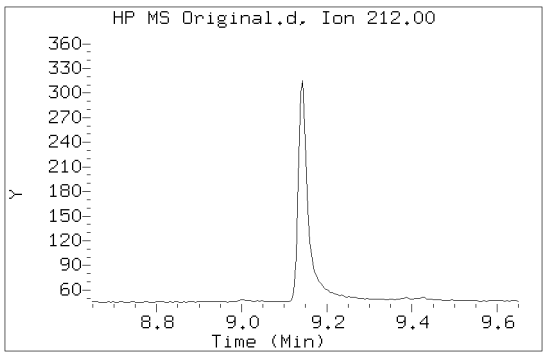
AFTER

MASS
122
AREA
0
HEIGHT
0
07-Sep-2022
12:15
ALSHS
Ser



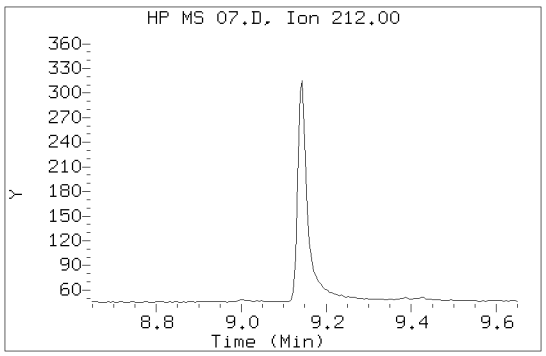
BEFORE

MASS
212
AREA
0
HEIGHT
0
27-Aug-2022
13:09
ALSHS
Server



AFTER

MASS
212
AREA
0
HEIGHT
0
07-Sep-2022
12:15
ALSHS
Ser

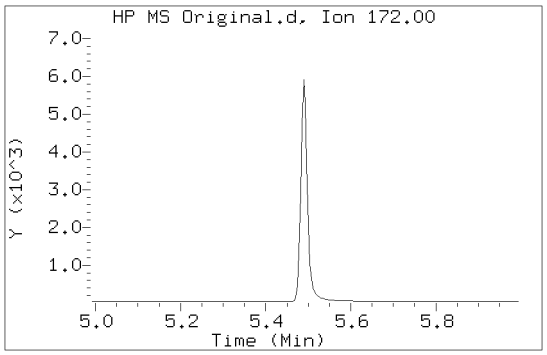


2-Fluorobiphenyl (321-60-8)

Reason Code:

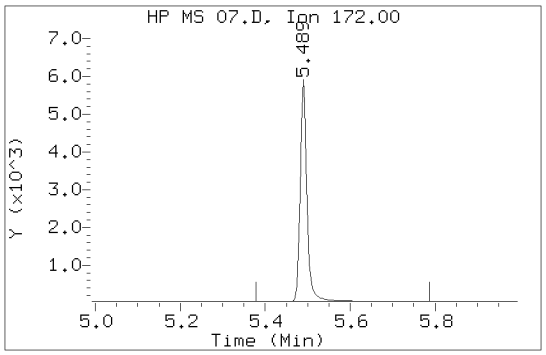
BEFORE

MASS
172
AREA
0
HEIGHT
0
27-Aug-2022
13:09
ALSHS
Server



AFTER

MASS
172
AREA
6508
HEIGHT
5866
07-Sep-2022
12:15
ALSHS
Ser



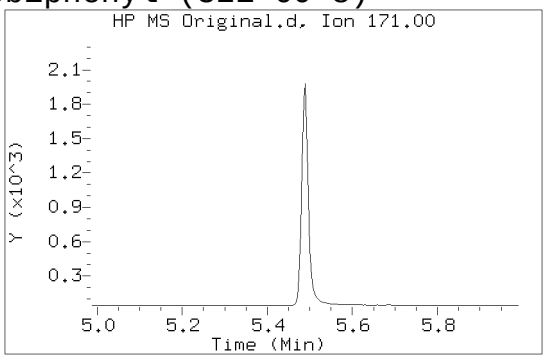
Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\07.D
Inj Date : 27-AUG-2022 12:54
InstruID : SV6.i
LabSampID : HS22080927-07

2-Fluorobiphenyl (321-60-8)

Reason Code:

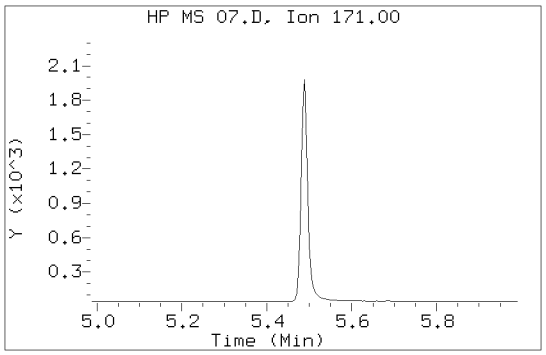
BEFORE

MASS
171
AREA
0
HEIGHT
0
27-Aug-2022
13:09
ALSHS
Server



AFTER

MASS
171
AREA
0
HEIGHT
0
07-Sep-2022
12:15
ALSHS
Ser



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220827.b\08.D
Lab Smp Id: HS22080927-08
Inj Date : 27-AUG-2022 13:12
Operator : LG Inst ID: SV6.i
Smp Info : HS22080927-08
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\220827.b\DXSIM.m
Meth Date : 29-Aug-2022 09:27 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 12:56 Cal File: 009.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	3.368	3.368	(1.000)	5244	0.10000	(aM)
* 45 Naphthalene-d8	136	4.471	4.471	(1.000)	10105	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.830	3.830	(0.857)	2288	0.06792	0.06792(M)
* 86 Acenaphthene-d10	164	6.138	6.138	(1.000)	6851	0.10000	(Q)
$ 69 2-Fluorobiphenyl	172	5.492	5.492	(0.895)	5044	0.04730	0.04730(M)
* 126 Phenanthrene-d10	188	7.578	7.578	(1.000)	10039	0.10000	
* 182 Chrysene-d12	240	10.327	10.332	(1.000)	4727	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.143	9.148	(0.885)	4644	0.05225	0.05225(M)
* 198 Perylene-d12	264	12.319	12.319	(1.000)	3949	0.10000	(M)
1 1,4-Dioxane	58	1.637	1.670	(0.486)	312	0.14493	0.1449(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.

01140244

Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\08.D

Page 1

Date : 27-AUG-2022 13:12

Client ID:

Instrument: SV6.i

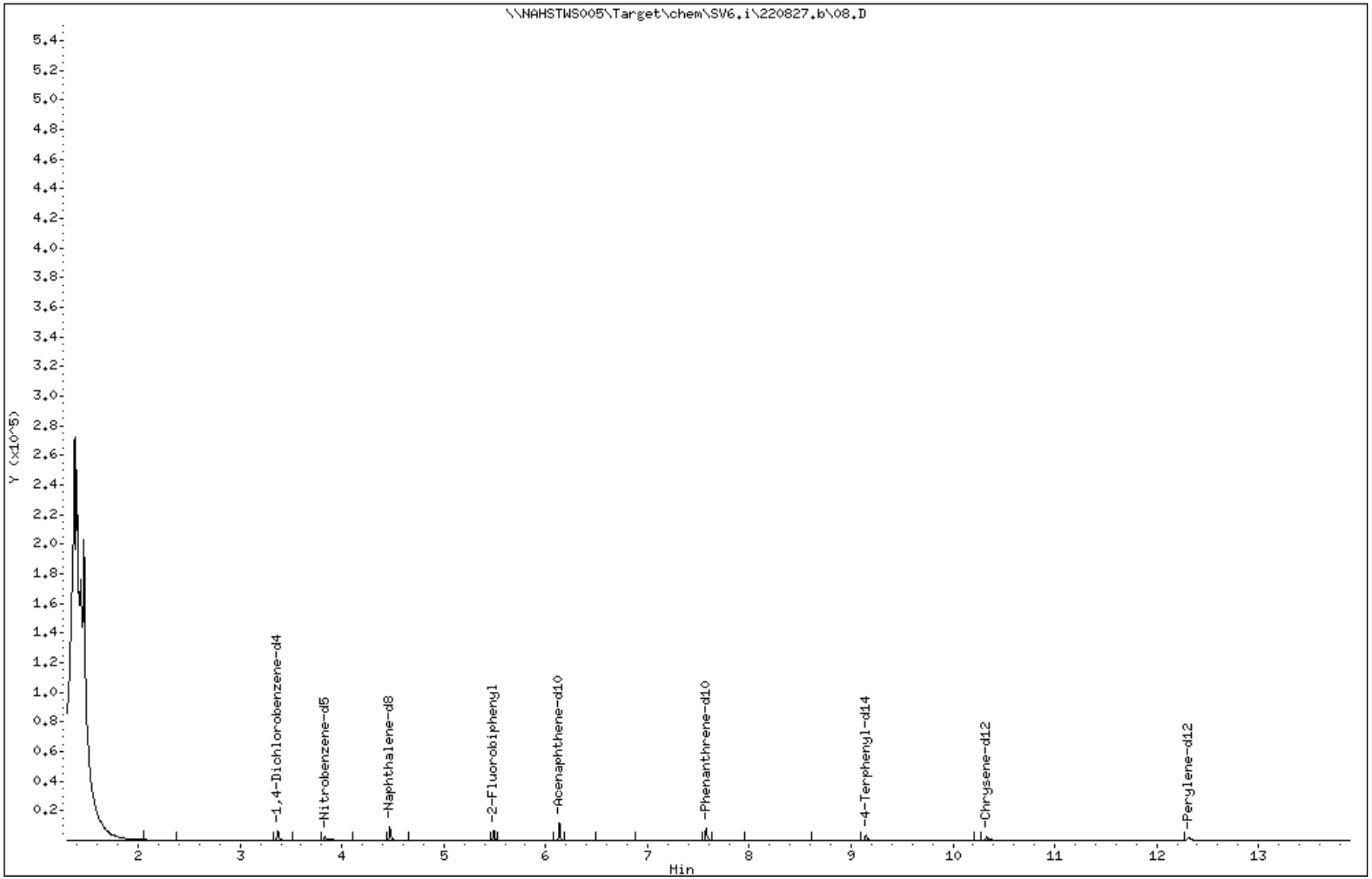
Sample Info: HS22080927-08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\08.D

Date : 27-AUG-2022 13:12

Client ID:

Instrument: SV6.i

Sample Info: HS22080927-08

Purge Volume: 1000.0

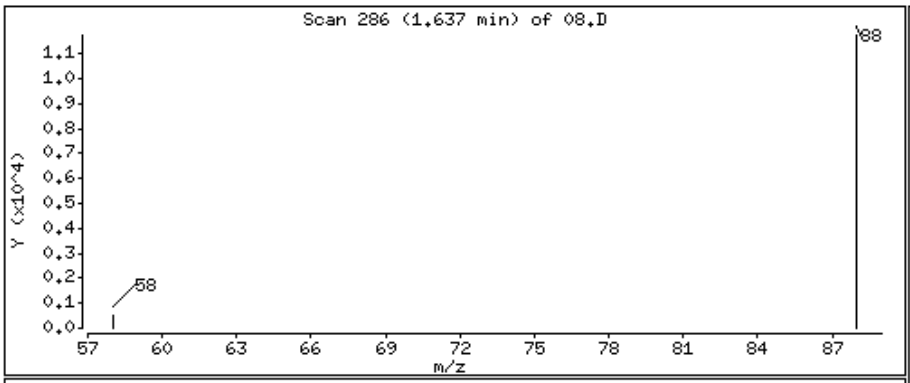
Operator: LG

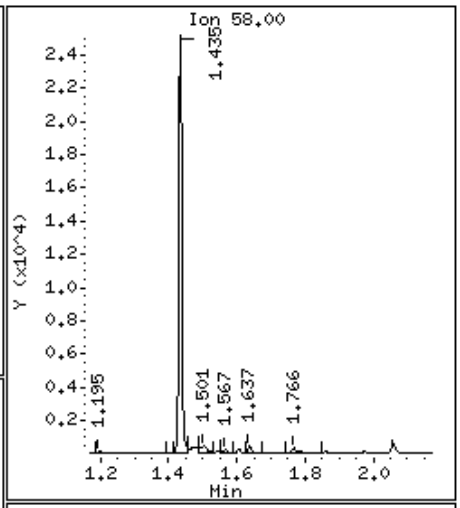
Column phase: RTX-5SIL MS

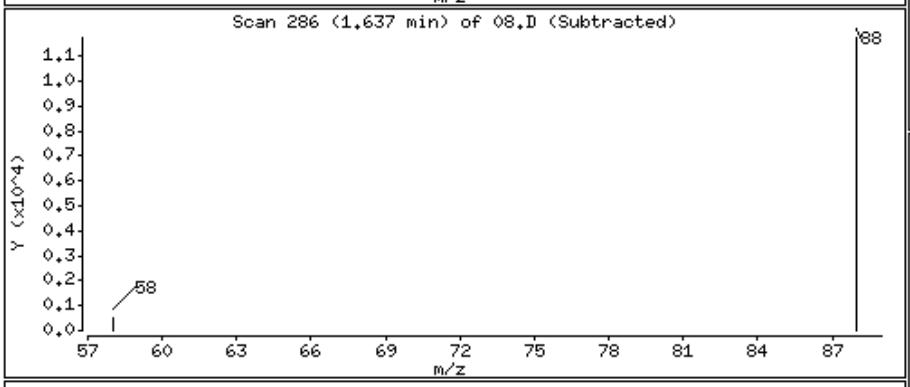
Column diameter: 0.28

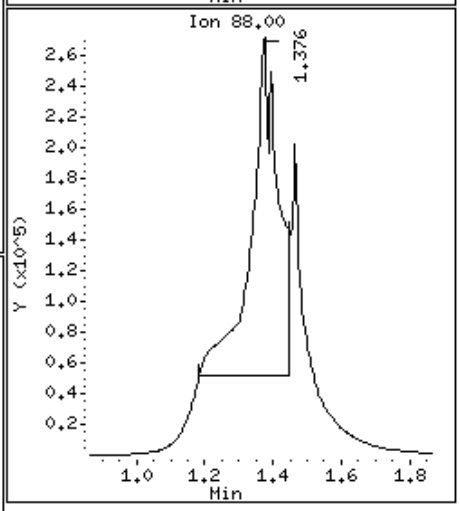
1 1,4-Dioxane

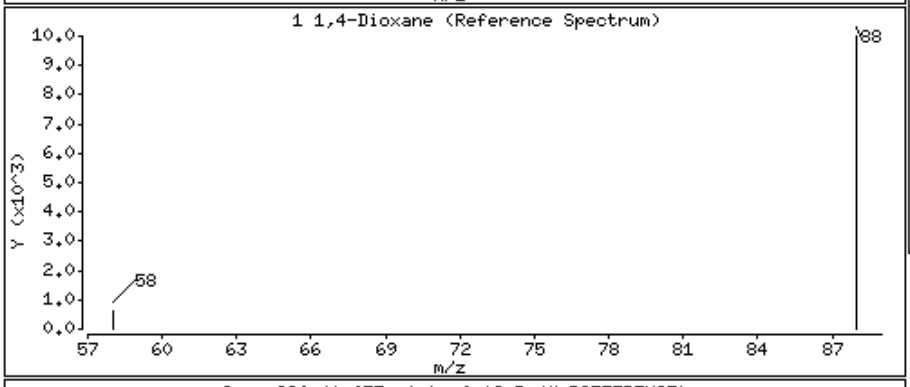
Concentration: 0.1449 ug/L

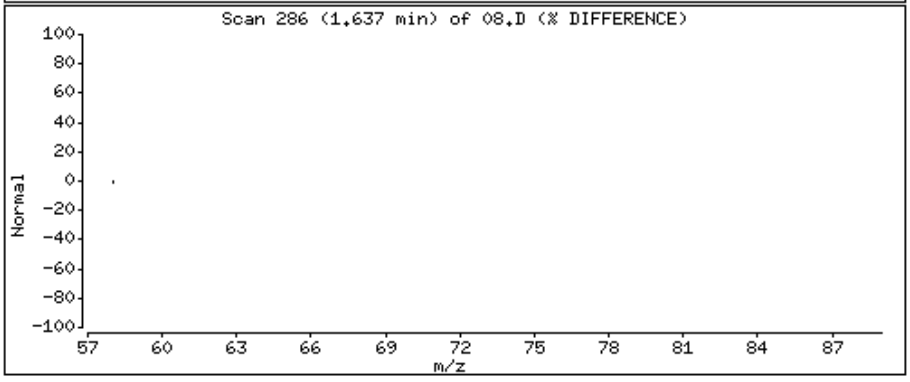












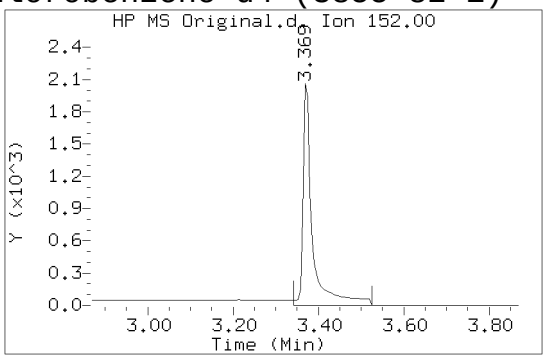
Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\08.D
Inj Date : 27-AUG-2022 13:12
InstruID : SV6.i
LabSampID : HS22080927-08

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

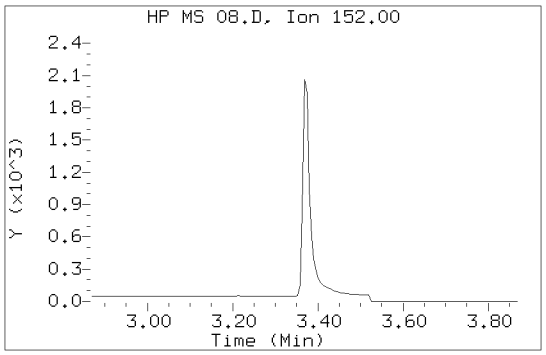
BEFORE

MASS
152
AREA
3095
HEIGHT
2062
27-Aug-2022
13:26
ALSHS
Server



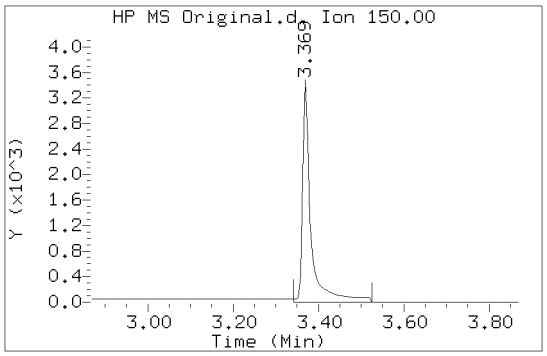
AFTER

MASS
152
AREA
5244
HEIGHT
2062
30-Aug-2022
15:46



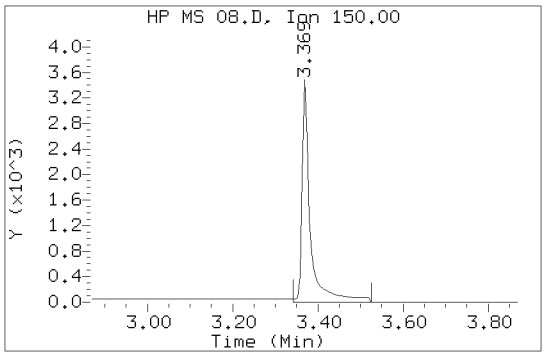
BEFORE

MASS
150
AREA
4603
HEIGHT
3483
27-Aug-2022
13:26
ALSHS
Server



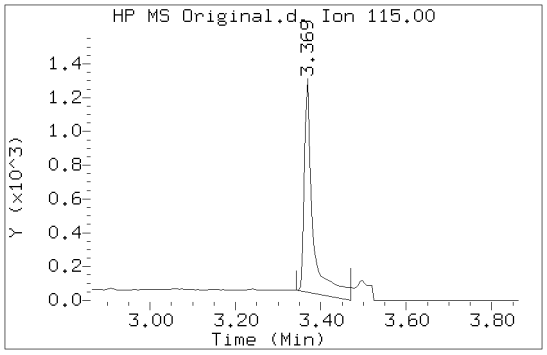
AFTER

MASS
150
AREA
4603
HEIGHT
3483
30-Aug-2022
15:46



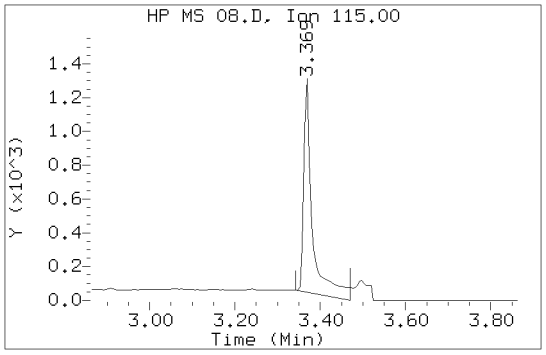
BEFORE

MASS
115
AREA
1756
HEIGHT
1264
27-Aug-2022
13:26
ALSHS
Server



AFTER

MASS
115
AREA
1756
HEIGHT
1264
30-Aug-2022
15:46

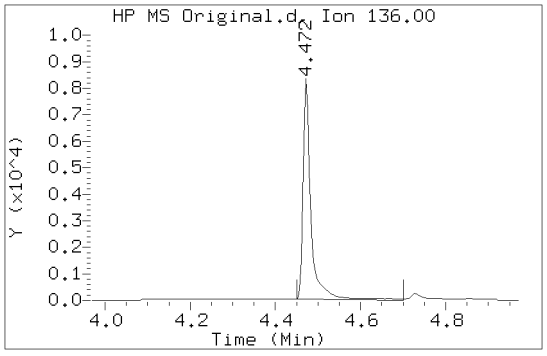


Naphthalene-d8 (1146-65-2)

Reason Code:

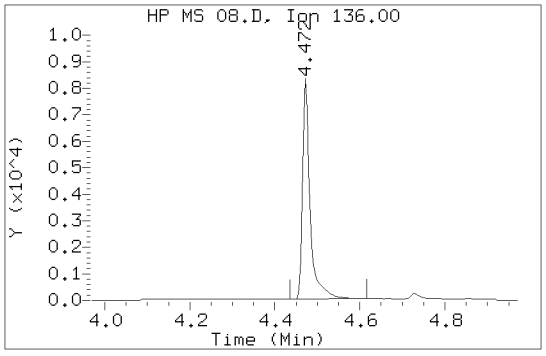
BEFORE

MASS
136
AREA
10576
HEIGHT
8306
27-Aug-2022
13:26
ALSHS
Server



AFTER

MASS
136
AREA
10105
HEIGHT
8304
30-Aug-2022
15:46

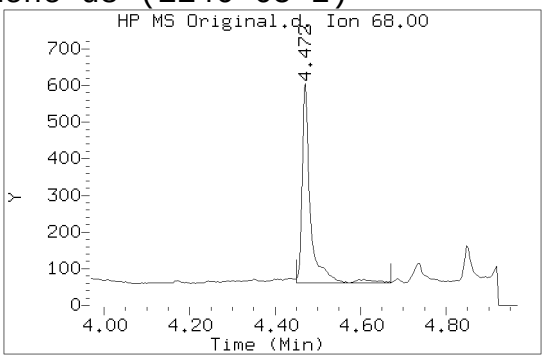


Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\08.D
Inj Date : 27-AUG-2022 13:12
InstruID : SV6.i
LabSampID : HS22080927-08

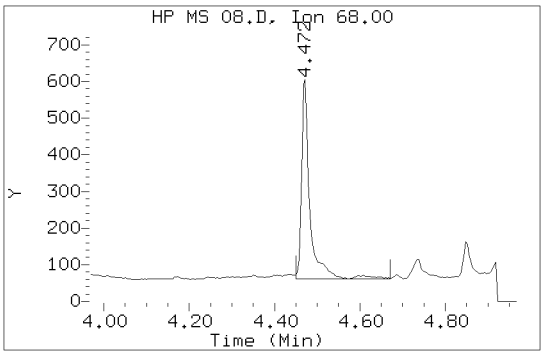
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
740
HEIGHT
543
27-Aug-2022
13:26
ALSHS
Server



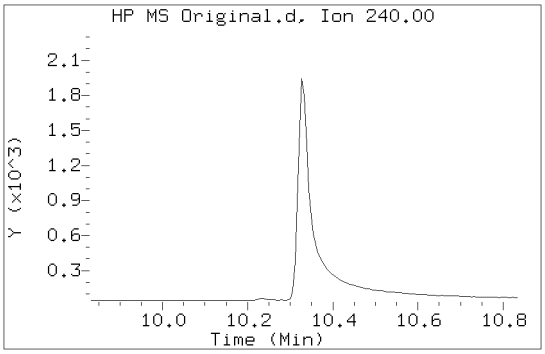
AFTER
MASS
68
AREA
740
HEIGHT
543
30-Aug-2022
15:46



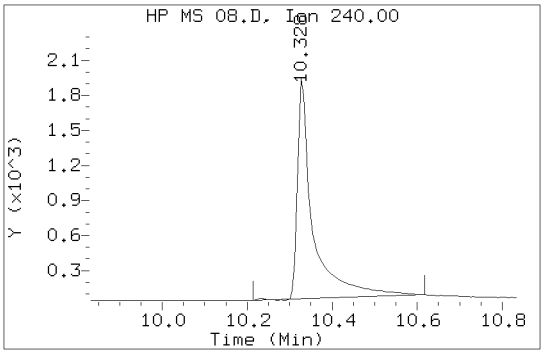
Chrysene-d12 (1719-03-5)

Reason Code:

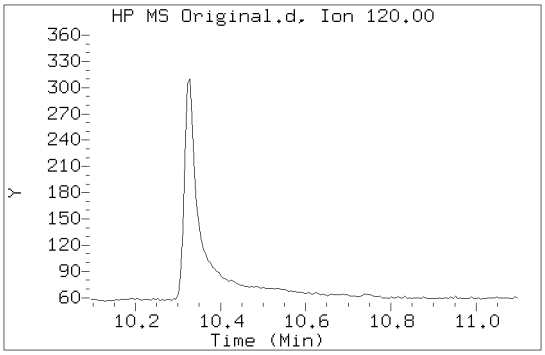
BEFORE
MASS
240
AREA
0
HEIGHT
0
27-Aug-2022
13:26
ALSHS
Server



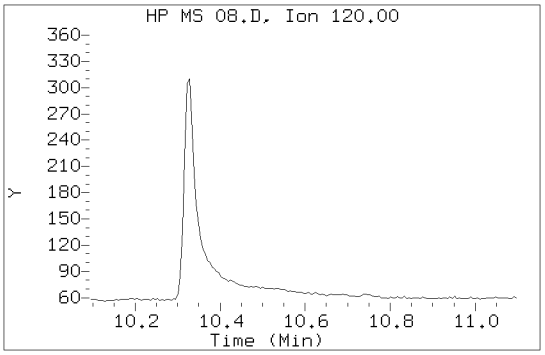
AFTER
MASS
240
AREA
4727
HEIGHT
1881
30-Aug-2022
15:46



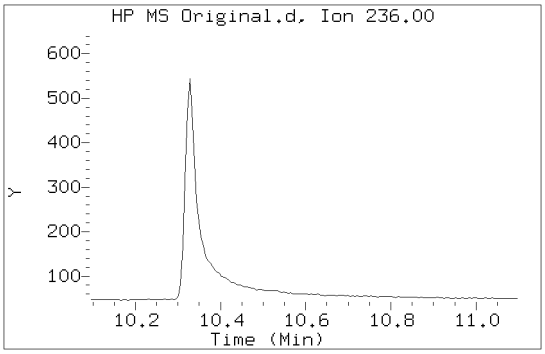
BEFORE
MASS
120
AREA
0
HEIGHT
0
27-Aug-2022
13:26
ALSHS
Server



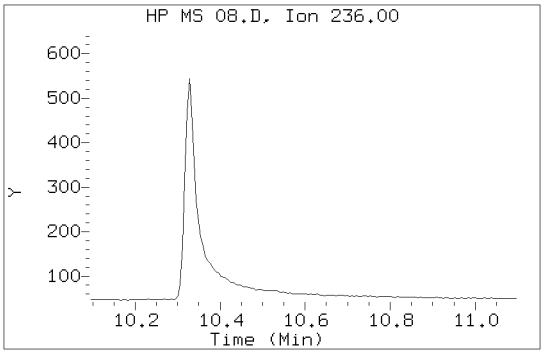
AFTER
MASS
120
AREA
0
HEIGHT
0
30-Aug-2022
15:46



BEFORE
MASS
236
AREA
0
HEIGHT
0
27-Aug-2022
13:26
ALSHS
Server



AFTER
MASS
236
AREA
0
HEIGHT
0
30-Aug-2022
15:46



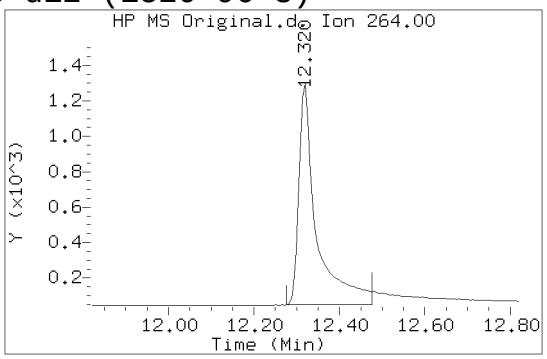
Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\08.D
Inj Date : 27-AUG-2022 13:12
InstruID : SV6.i
LabSampID : HS22080927-08

Perylene-d12 (1520-96-3)

Reason Code:

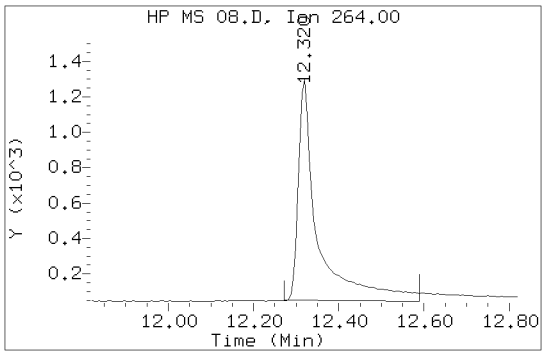
BEFORE

MASS
264
AREA
3549
HEIGHT
1247
27-Aug-2022
13:26
ALSHS
Server



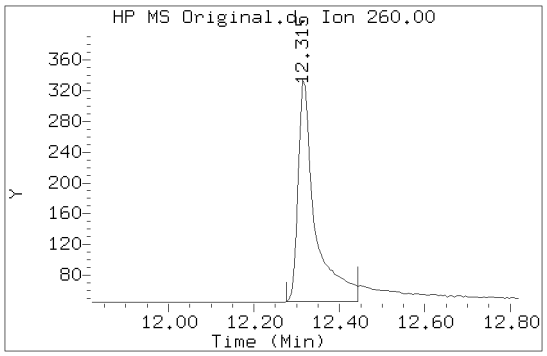
AFTER

MASS
264
AREA
3949
HEIGHT
1246
30-Aug-2022
15:46



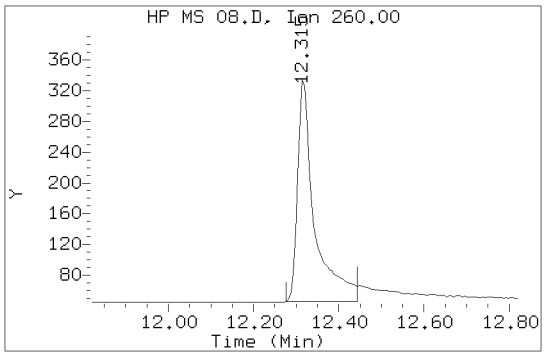
BEFORE

MASS
260
AREA
794
HEIGHT
288
27-Aug-2022
13:26
ALSHS
Server



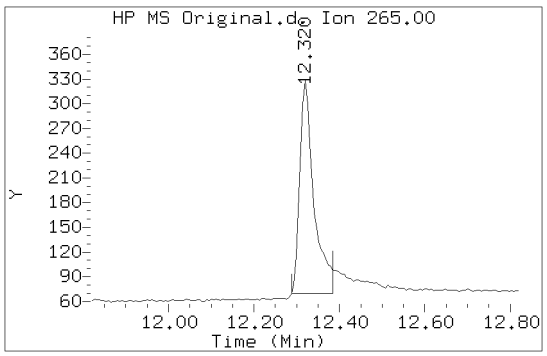
AFTER

MASS
260
AREA
794
HEIGHT
288
30-Aug-2022
15:46



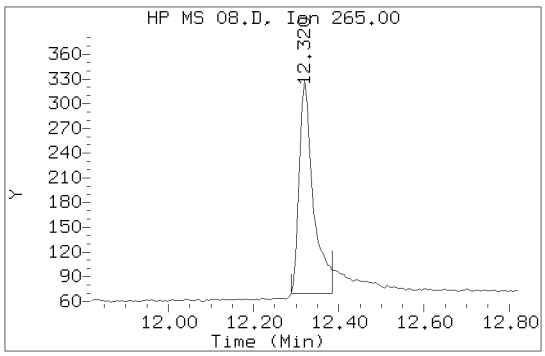
BEFORE

MASS
265
AREA
591
HEIGHT
258
27-Aug-2022
13:26
ALSHS
Server



AFTER

MASS
265
AREA
591
HEIGHT
258
30-Aug-2022
15:46

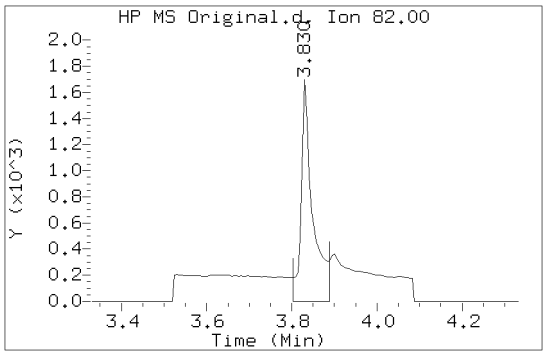


Nitrobenzene-d5 (4165-60-0)

Reason Code:

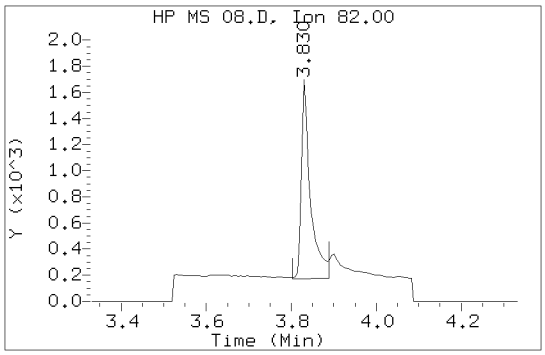
BEFORE

MASS
82
AREA
3232
HEIGHT
1697
27-Aug-2022
13:26
ALSHS
Server



AFTER

MASS
82
AREA
2288
HEIGHT
1525
30-Aug-2022
15:46



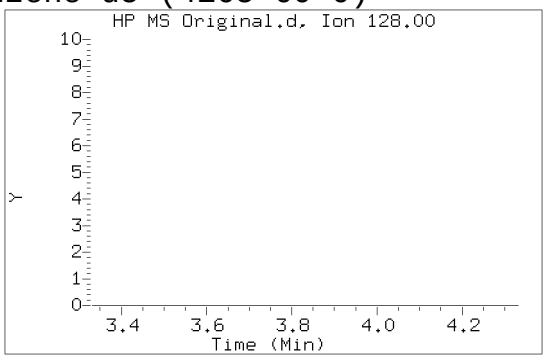
Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\08.D
Inj Date : 27-AUG-2022 13:12
InstruID : SV6.i
LabSampID : HS22080927-08

Nitrobenzene-d5 (4165-60-0)

Reason Code:

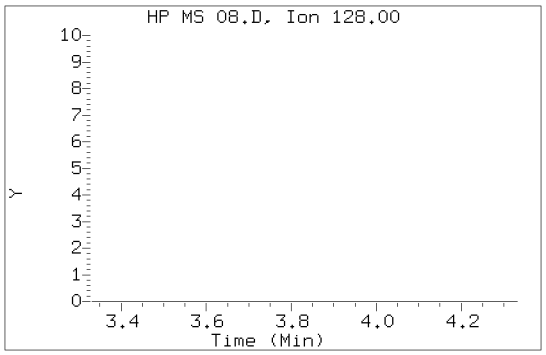
BEFORE

MASS
128
AREA
0
HEIGHT
0
27-Aug-2022
13:26
ALSHS
Server



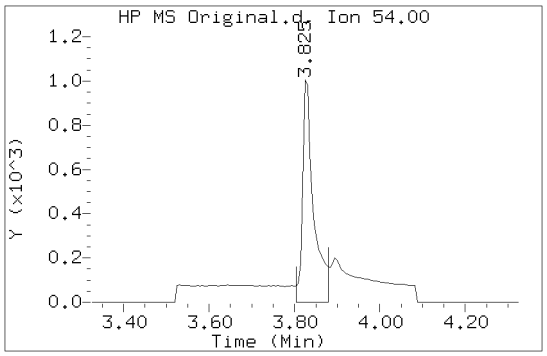
AFTER

MASS
128
AREA
0
HEIGHT
0
30-Aug-2022
15:46



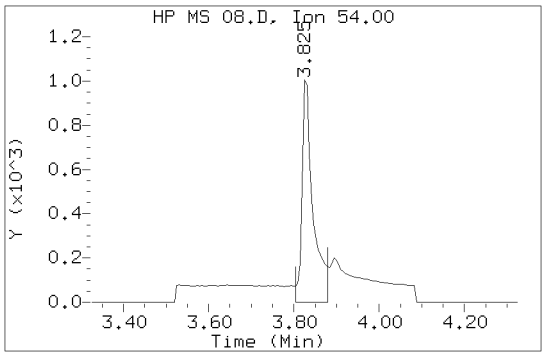
BEFORE

MASS
54
AREA
1800
HEIGHT
1005
27-Aug-2022
13:26
ALSHS
Server



AFTER

MASS
54
AREA
1800
HEIGHT
1005
30-Aug-2022
15:46

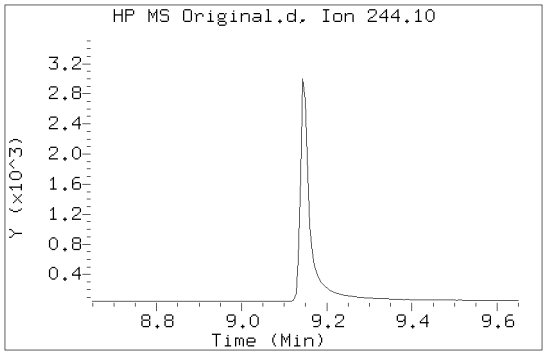


4-Terphenyl-d14 (1718-51-0)

Reason Code:

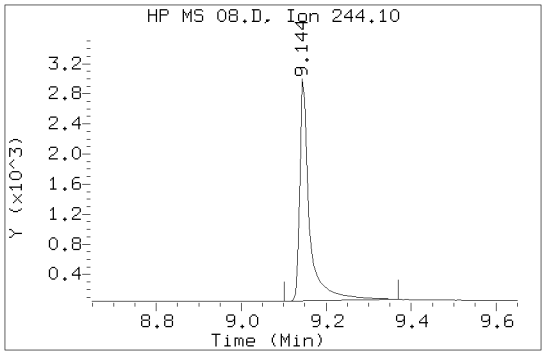
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
27-Aug-2022
13:26
ALSHS
Server



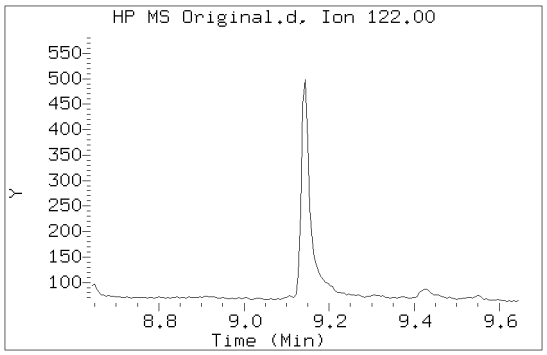
AFTER

MASS
244.1
AREA
4644
HEIGHT
2947
30-Aug-2022
15:46



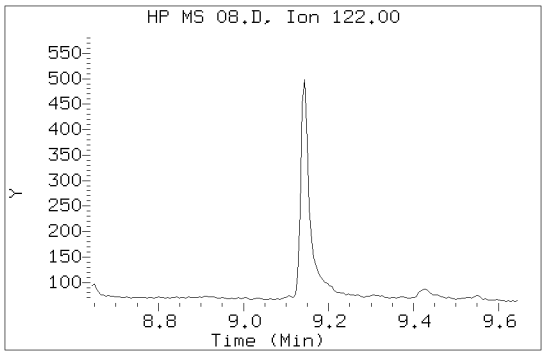
BEFORE

MASS
122
AREA
0
HEIGHT
0
27-Aug-2022
13:26
ALSHS
Server



AFTER

MASS
122
AREA
0
HEIGHT
0
30-Aug-2022
15:46



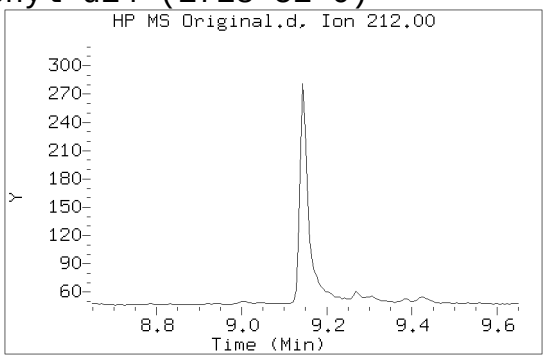
Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\08.D
Inj Date : 27-AUG-2022 13:12
InstruID : SV6.i
LabSampID : HS22080927-08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

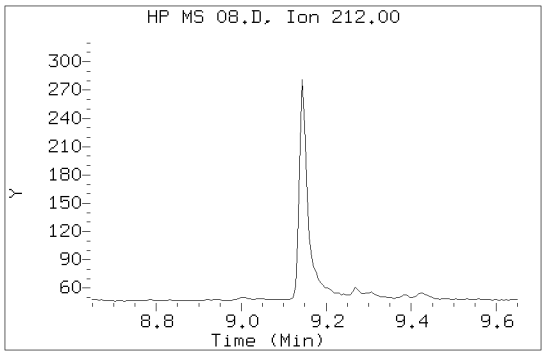
BEFORE

MASS
212
AREA
0
HEIGHT
0
27-Aug-2022
13:26
ALSHS
Server



AFTER

MASS
212
AREA
0
HEIGHT
0
30-Aug-2022
15:46

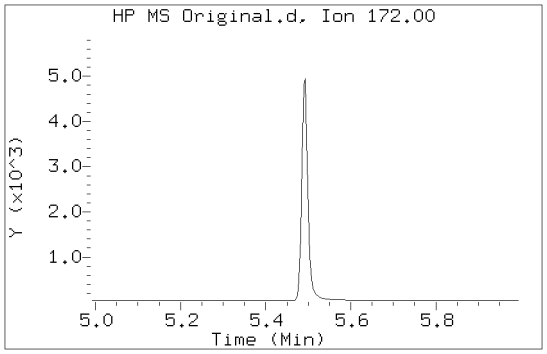


2-Fluorobiphenyl (321-60-8)

Reason Code:

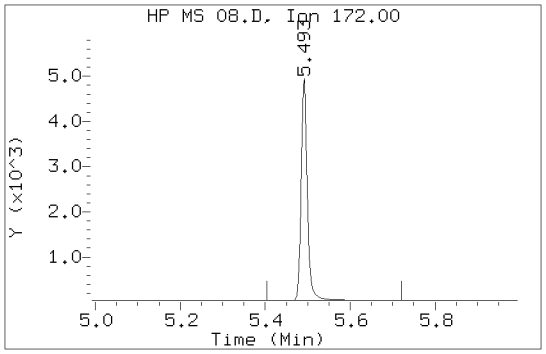
BEFORE

MASS
172
AREA
0
HEIGHT
0
27-Aug-2022
13:26
ALSHS
Server



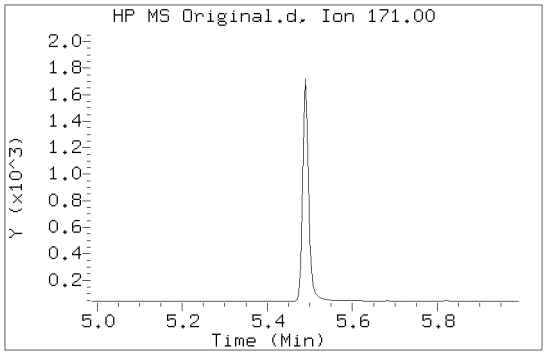
AFTER

MASS
172
AREA
5044
HEIGHT
4898
30-Aug-2022
15:46



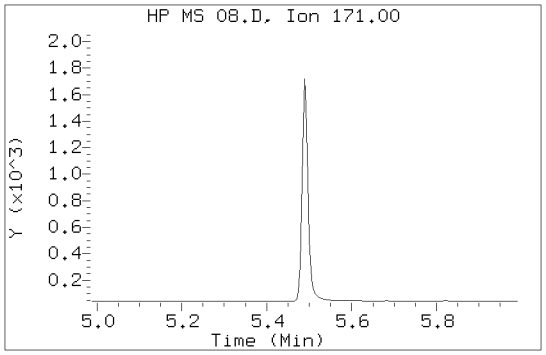
BEFORE

MASS
171
AREA
0
HEIGHT
0
27-Aug-2022
13:26
ALSHS
Server



AFTER

MASS
171
AREA
0
HEIGHT
0
30-Aug-2022
15:46



Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\09.D Page 1
Report Date: 30-Aug-2022 15:47

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220827.b\09.D
Lab Smp Id: HS22080927-09
Inj Date : 27-AUG-2022 13:29
Operator : LG Inst ID: SV6.i
Smp Info : HS22080927-09
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\220827.b\DXSIM.m
Meth Date : 29-Aug-2022 09:27 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 12:56 Cal File: 009.D
Als bottle: 9
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	3.368	3.368	(1.000)	4916	0.10000	(aM)
* 45 Naphthalene-d8	136	4.471	4.471	(1.000)	10196	0.10000	
$ 33 Nitrobenzene-d5	82	3.830	3.830	(0.857)	2342	0.06891	0.06891(M)
* 86 Acenaphthene-d10	164	6.133	6.138	(1.000)	6603	0.10000	(Q)
$ 69 2-Fluorobiphenyl	172	5.492	5.492	(0.896)	5215	0.05074	0.05074(M)
* 126 Phenanthrene-d10	188	7.573	7.578	(1.000)	9658	0.10000	
* 182 Chrysene-d12	240	10.327	10.332	(1.000)	4751	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.143	9.148	(0.885)	4728	0.05293	0.05293(M)
* 198 Perylene-d12	264	12.314	12.319	(1.000)	3324	0.10000	
1 1,4-Dioxane	58	1.630	1.670	(0.484)	88	0.04360	0.04360(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.

01140252

Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\09.D

Date : 27-AUG-2022 13:29

Client ID:

Instrument: SV6.i

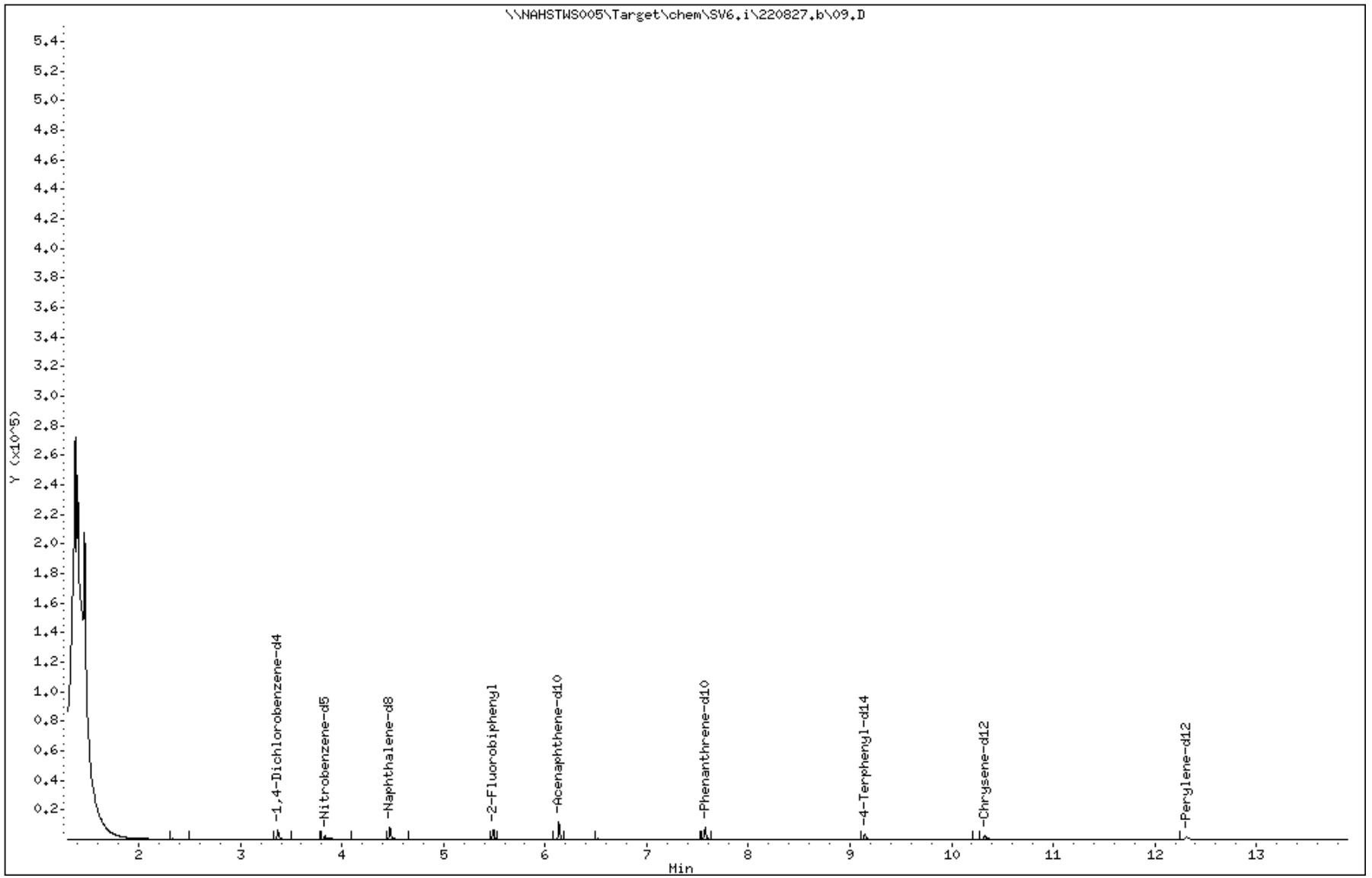
Sample Info: HS22080927-09

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\09.D

Date : 27-AUG-2022 13:29

Client ID:

Instrument: SV6.i

Sample Info: HS22080927-09

Purge Volume: 1000.0

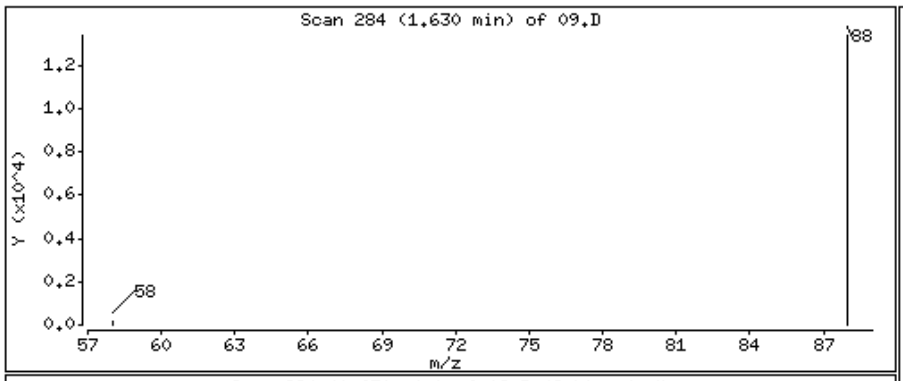
Operator: LG

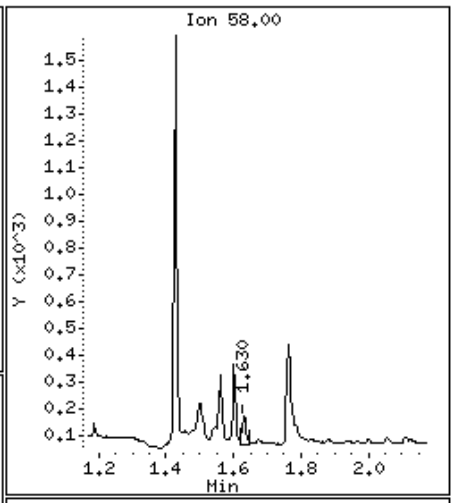
Column phase: RTX-5SIL MS

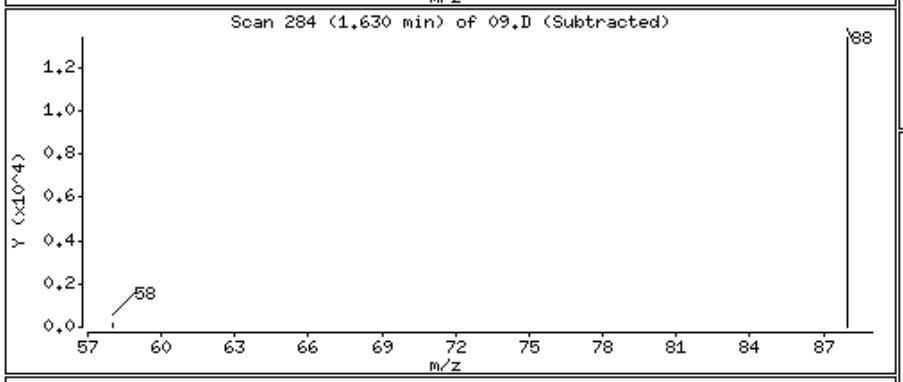
Column diameter: 0.28

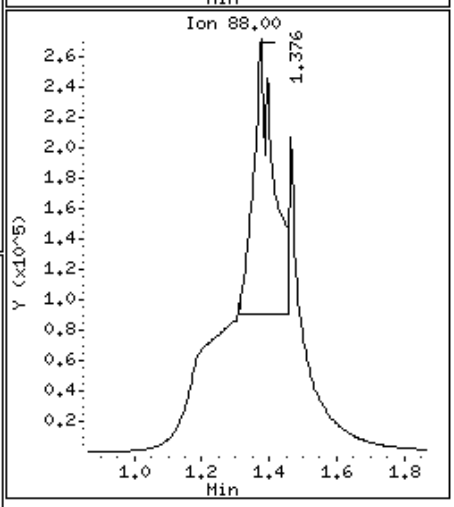
1 1,4-Dioxane

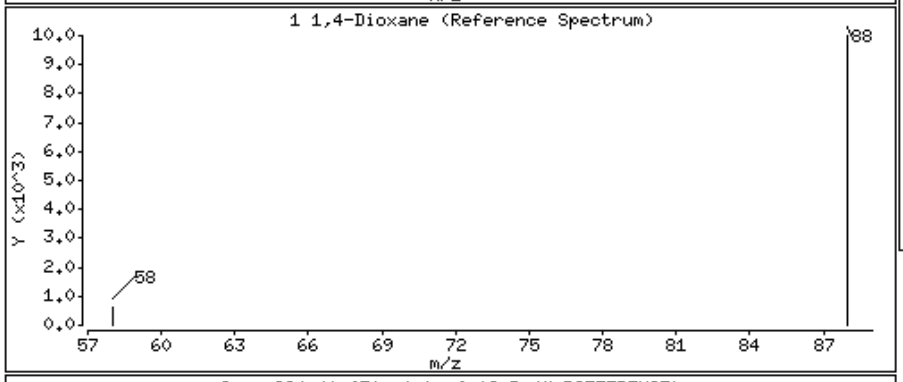
Concentration: 0.04360 ug/L

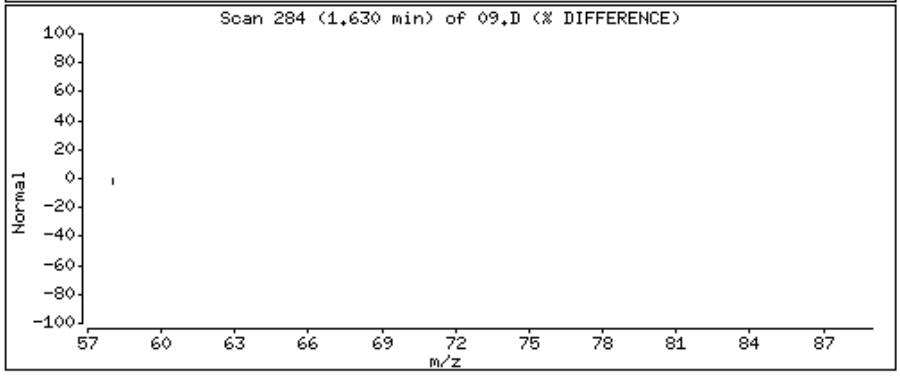












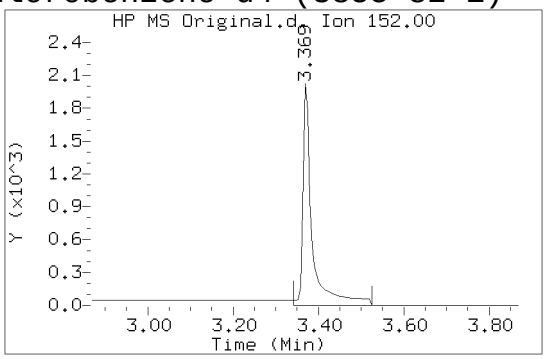
Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\09.D
Inj Date : 27-AUG-2022 13:29
InstruID : SV6.i
LabSampID : HS22080927-09

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

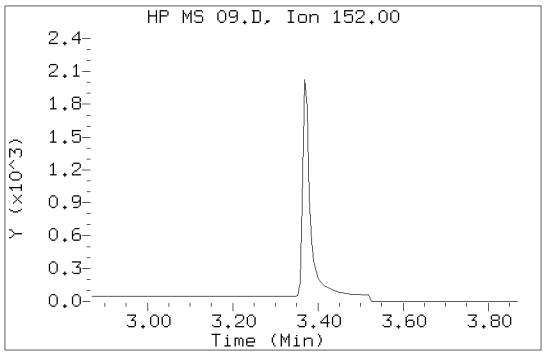
BEFORE

MASS
152
AREA
2996
HEIGHT
2024
27-Aug-2022
13:44
ALSHS
Server



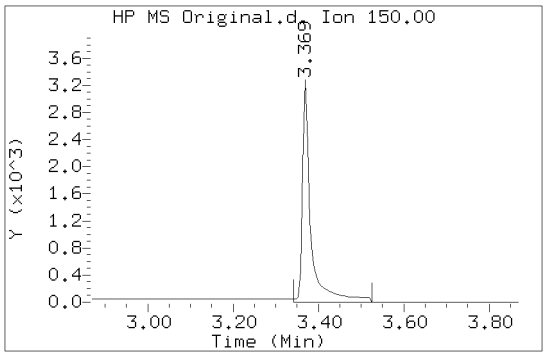
AFTER

MASS
152
AREA
4916
HEIGHT
2024
30-Aug-2022
15:47



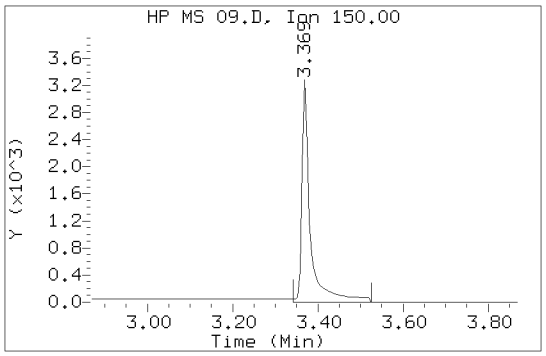
BEFORE

MASS
150
AREA
4432
HEIGHT
3282
27-Aug-2022
13:44
ALSHS
Server



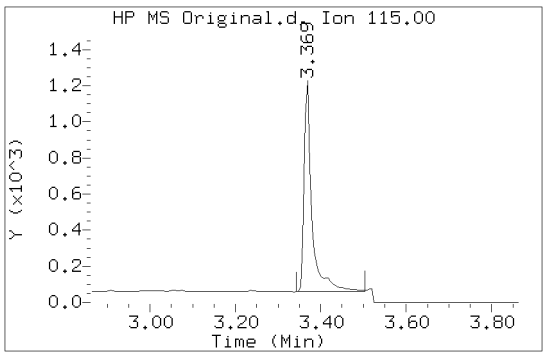
AFTER

MASS
150
AREA
4432
HEIGHT
3282
30-Aug-2022
15:47



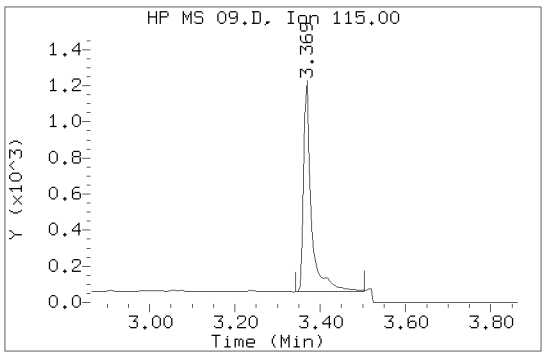
BEFORE

MASS
115
AREA
1480
HEIGHT
1169
27-Aug-2022
13:44
ALSHS
Server



AFTER

MASS
115
AREA
1480
HEIGHT
1169
30-Aug-2022
15:47

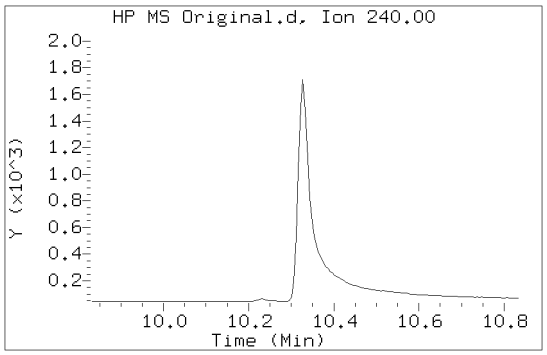


Chrysene-d12 (1719-03-5)

Reason Code:

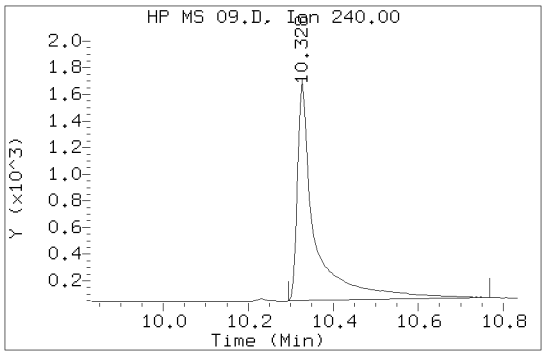
BEFORE

MASS
240
AREA
0
HEIGHT
0
27-Aug-2022
13:44
ALSHS
Server



AFTER

MASS
240
AREA
4751
HEIGHT
1657
30-Aug-2022
15:47

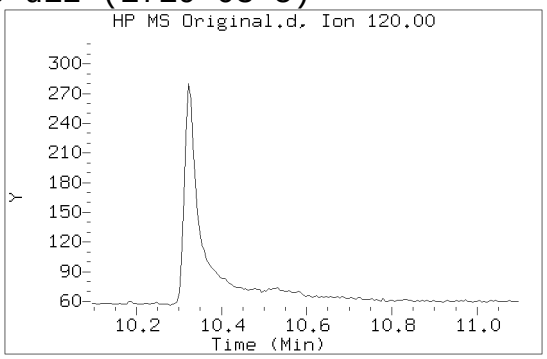


Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\09.D
Inj Date : 27-AUG-2022 13:29
InstruID : SV6.i
LabSampID : HS22080927-09

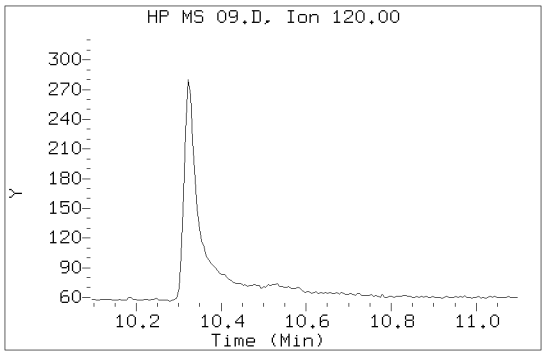
Chrysene-d12 (1719-03-5)

Reason Code:

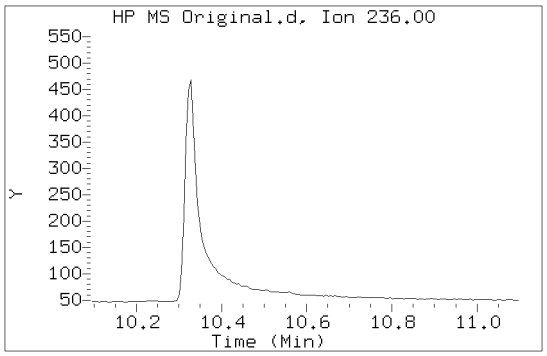
BEFORE
MASS
120
AREA
0
HEIGHT
0
27-Aug-2022
13:44
ALSHS
Server



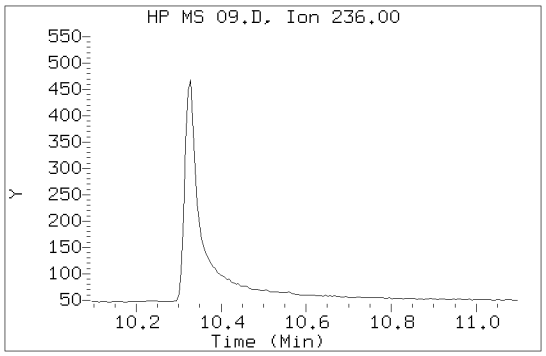
AFTER
MASS
120
AREA
0
HEIGHT
0
30-Aug-2022
15:47



BEFORE
MASS
236
AREA
0
HEIGHT
0
27-Aug-2022
13:44
ALSHS
Server



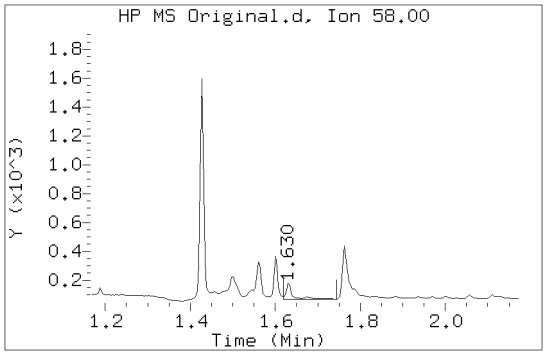
AFTER
MASS
236
AREA
0
HEIGHT
0
30-Aug-2022
15:47



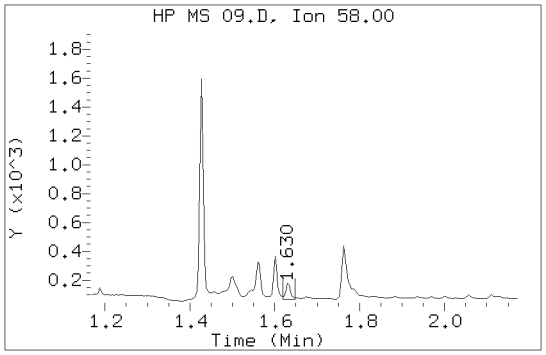
1,4-Dioxane ()

Reason Code:

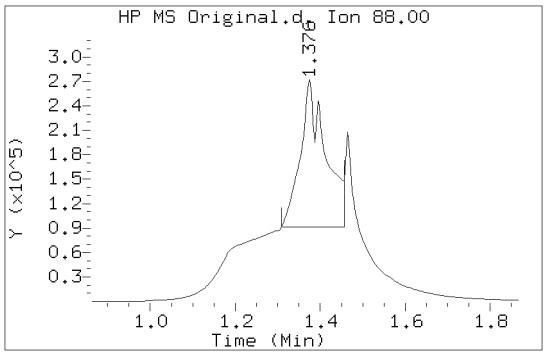
BEFORE
MASS
58
AREA
119
HEIGHT
109
27-Aug-2022
13:44
ALSHS
Server



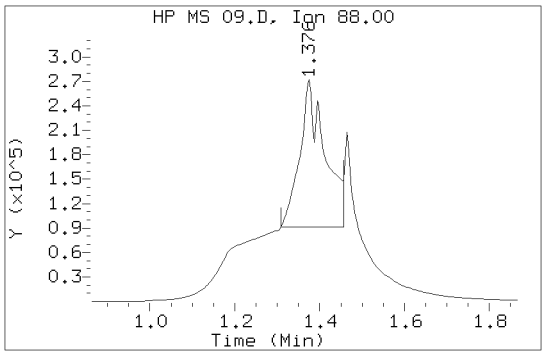
AFTER
MASS
58
AREA
88
HEIGHT
109
30-Aug-2022
15:47



BEFORE
MASS
88
AREA
750254
HEIGHT
180920
27-Aug-2022
13:44
ALSHS
Server



AFTER
MASS
88
AREA
750254
HEIGHT
180920
30-Aug-2022
15:47

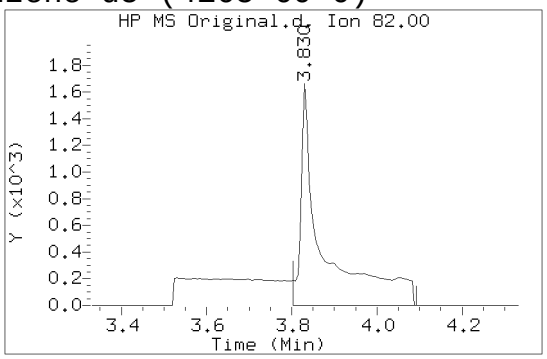


Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\09.D
Inj Date : 27-AUG-2022 13:29
InstruID : SV6.i
LabSampID : HS22080927-09

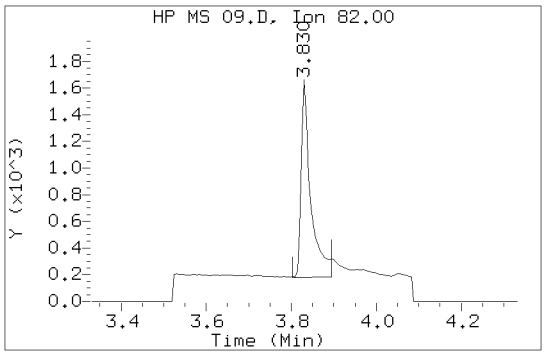
Nitrobenzene-d5 (4165-60-0)

Reason Code:

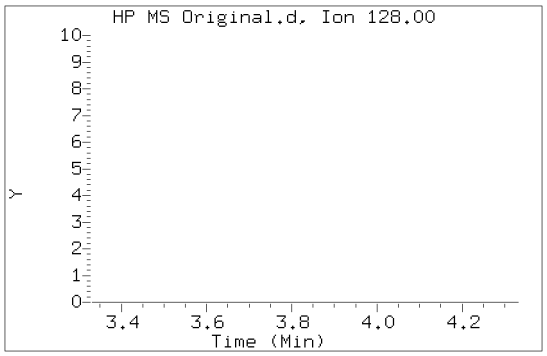
BEFORE
MASS
82
AREA
5864
HEIGHT
1663
27-Aug-2022
13:44
ALSHS
Server



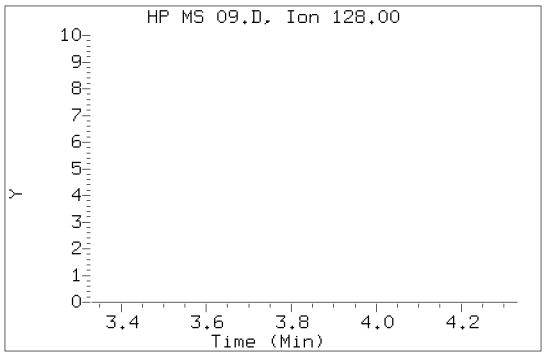
AFTER
MASS
82
AREA
2342
HEIGHT
1484
30-Aug-2022
15:47



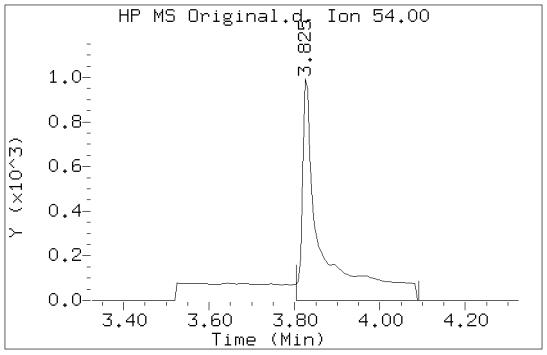
BEFORE
MASS
128
AREA
0
HEIGHT
0
27-Aug-2022
13:44
ALSHS
Server



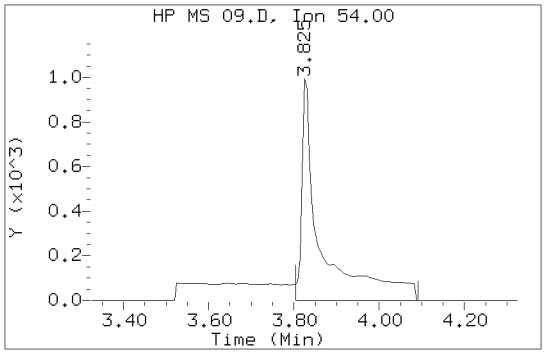
AFTER
MASS
128
AREA
0
HEIGHT
0
30-Aug-2022
15:47



BEFORE
MASS
54
AREA
3031
HEIGHT
994
27-Aug-2022
13:44
ALSHS
Server



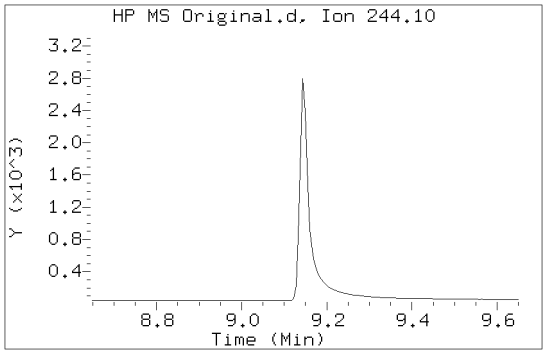
AFTER
MASS
54
AREA
3031
HEIGHT
994
30-Aug-2022
15:47



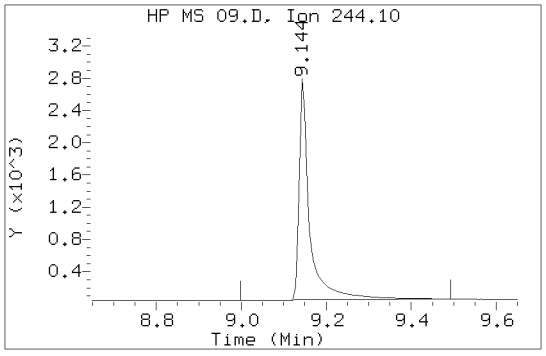
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
0
HEIGHT
0
27-Aug-2022
13:44
ALSHS
Server



AFTER
MASS
244.1
AREA
4728
HEIGHT
2745
30-Aug-2022
15:47

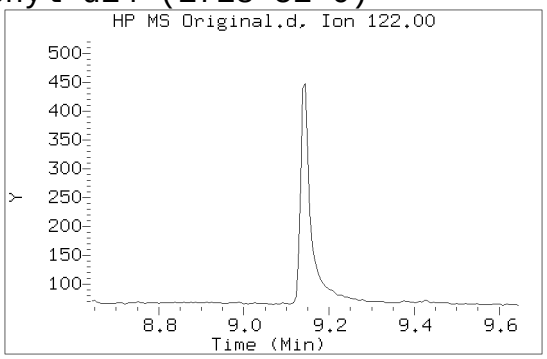


Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\09.D
Inj Date : 27-AUG-2022 13:29
InstruID : SV6.i
LabSampID : HS22080927-09

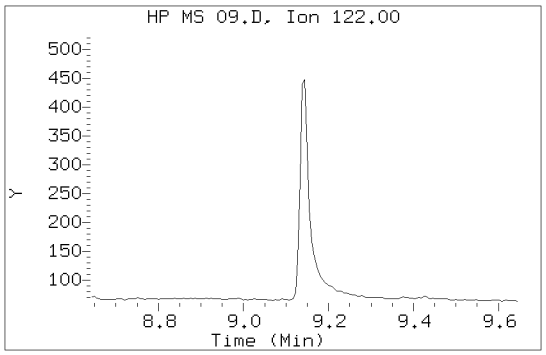
4-Terphenyl-d14 (1718-51-0)

Reason Code:

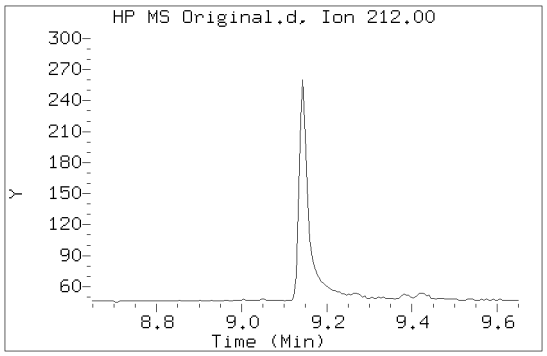
BEFORE
MASS
122
AREA
0
HEIGHT
0
27-Aug-2022
13:44
ALSHS
Server



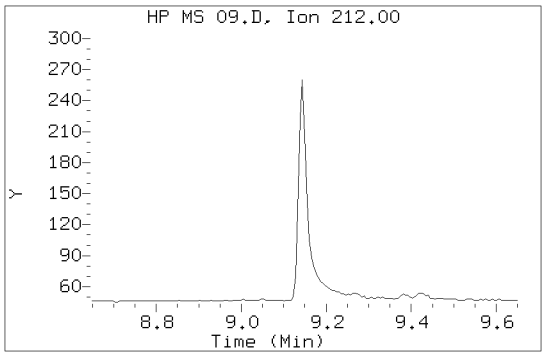
AFTER
MASS
122
AREA
0
HEIGHT
0
30-Aug-2022
15:47



BEFORE
MASS
212
AREA
0
HEIGHT
0
27-Aug-2022
13:44
ALSHS
Server



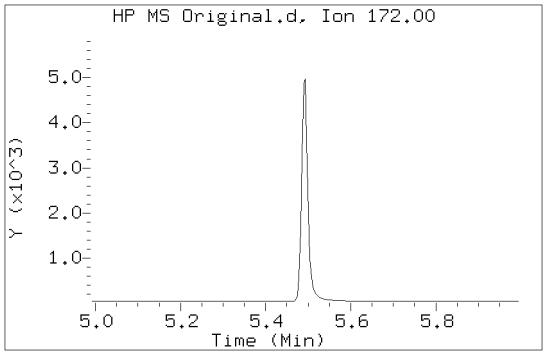
AFTER
MASS
212
AREA
0
HEIGHT
0
30-Aug-2022
15:47



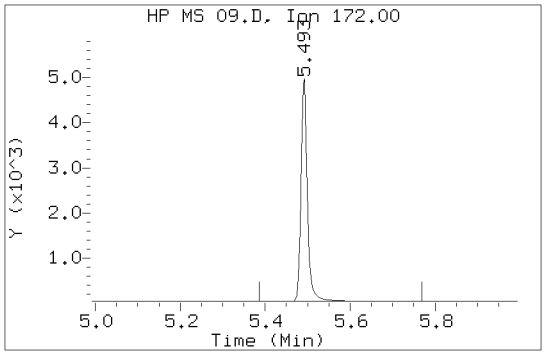
2-Fluorobiphenyl (321-60-8)

Reason Code:

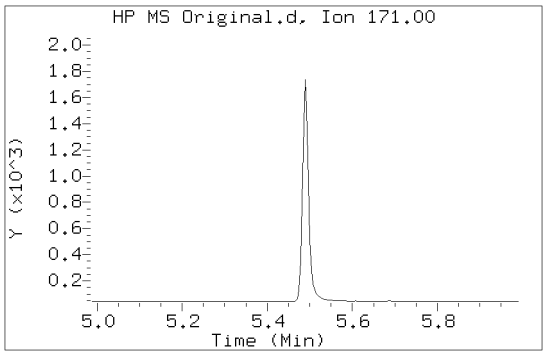
BEFORE
MASS
172
AREA
0
HEIGHT
0
27-Aug-2022
13:44
ALSHS
Server



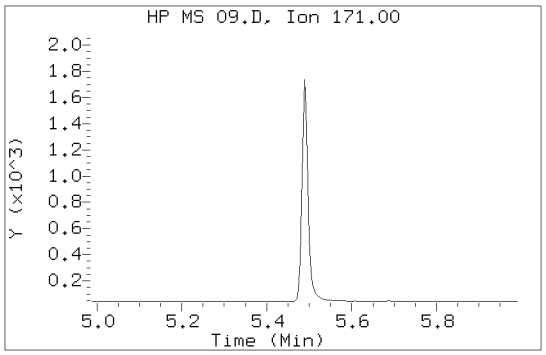
AFTER
MASS
172
AREA
5215
HEIGHT
4925
30-Aug-2022
15:47



BEFORE
MASS
171
AREA
0
HEIGHT
0
27-Aug-2022
13:44
ALSHS
Server



AFTER
MASS
171
AREA
0
HEIGHT
0
30-Aug-2022
15:47



Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\10.D Page 1
Report Date: 30-Aug-2022 16:21

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220827.b\10.D
Lab Smp Id: HS22080927-10
Inj Date : 27-AUG-2022 13:47
Operator : LG Inst ID: SV6.i
Smp Info : HS22080927-10
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\220827.b\DXSIM.m
Meth Date : 29-Aug-2022 09:27 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 12:56 Cal File: 009.D
Als bottle: 10
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	3.368	3.368	(1.000)	5042	0.10000	(aM)
* 45 Naphthalene-d8	136	4.471	4.471	(1.000)	11840	0.10000	
$ 33 Nitrobenzene-d5	82	3.830	3.830	(0.857)	2469	0.06256	0.06256(M)
* 86 Acenaphthene-d10	164	6.133	6.138	(1.000)	6910	0.10000	(Q)
$ 69 2-Fluorobiphenyl	172	5.489	5.492	(0.895)	5591	0.05198	0.05198(M)
* 126 Phenanthrene-d10	188	7.573	7.578	(1.000)	10090	0.10000	
* 182 Chrysene-d12	240	10.327	10.332	(1.000)	5194	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.143	9.148	(0.885)	4843	0.04959	0.04959(M)
* 198 Perylene-d12	264	12.314	12.319	(1.000)	3686	0.10000	
1 1,4-Dioxane	58	1.637	1.670	(0.486)	53	0.02561	0.02560(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.

01140259

Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\10.D

Date : 27-AUG-2022 13:47

Client ID:

Instrument: SV6.i

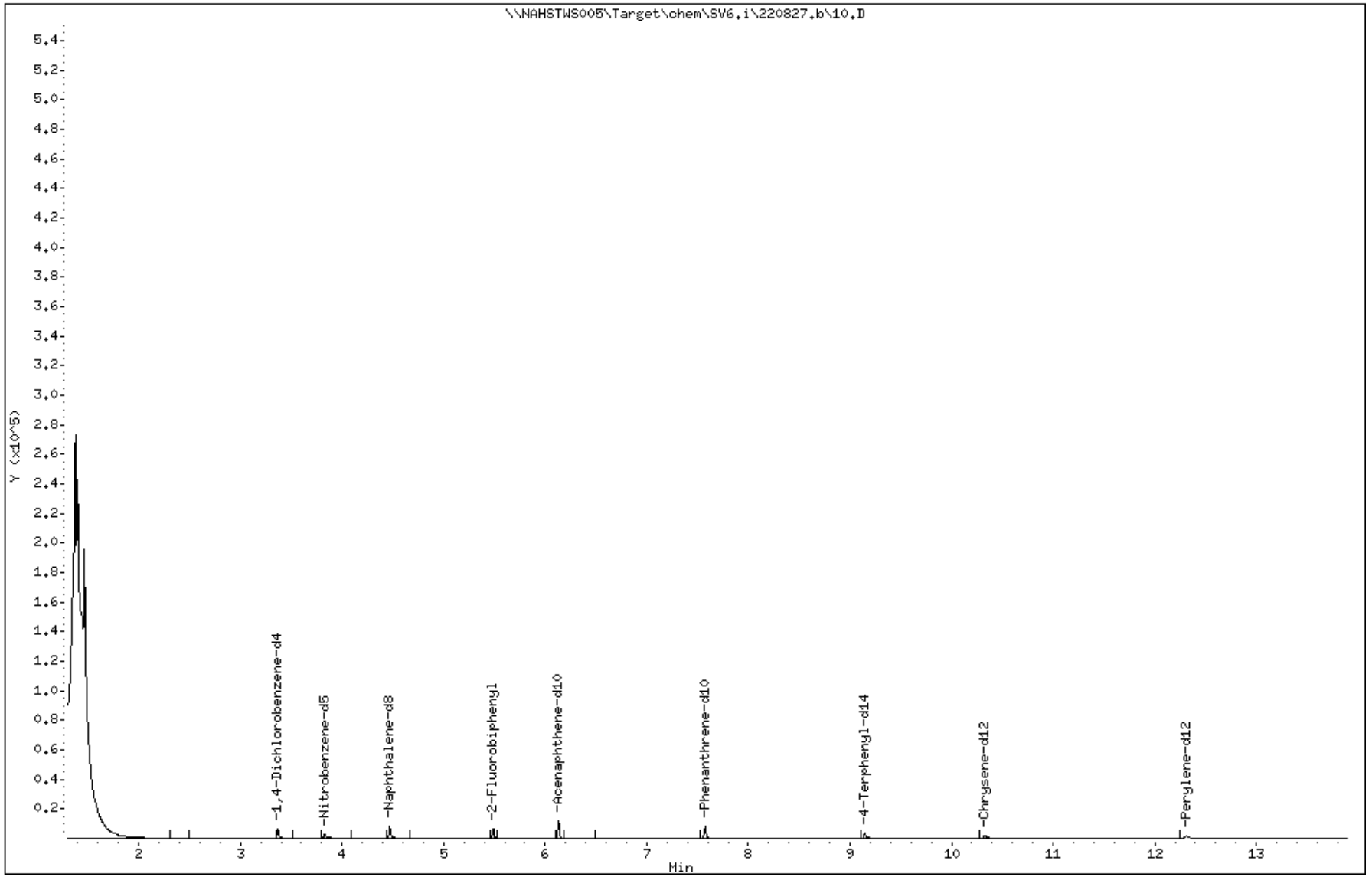
Sample Info: HS22080927-10

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\10.D

Date : 27-AUG-2022 13:47

Client ID:

Instrument: SV6.i

Sample Info: HS22080927-10

Purge Volume: 1000.0

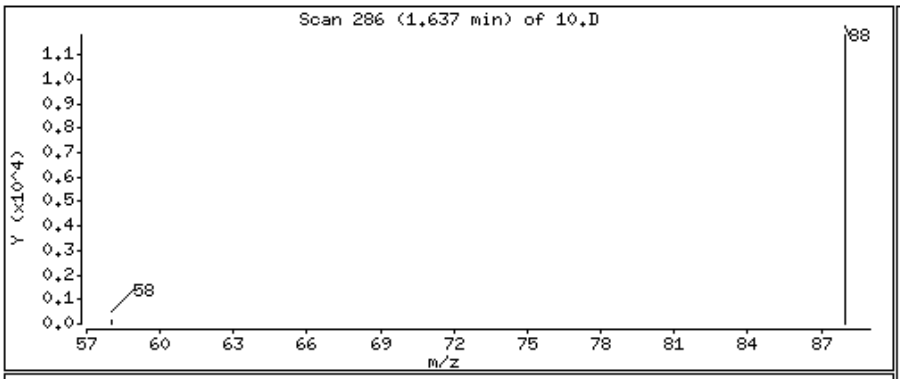
Operator: LG

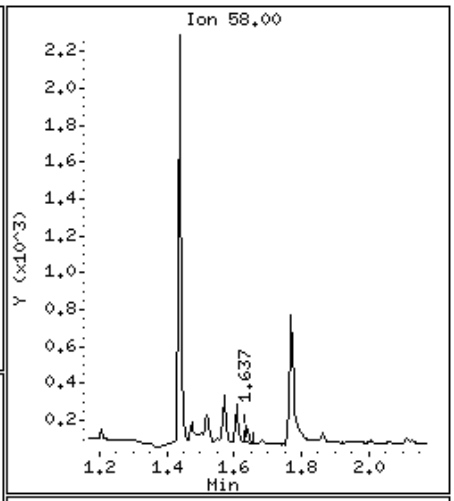
Column phase: RTX-5SIL MS

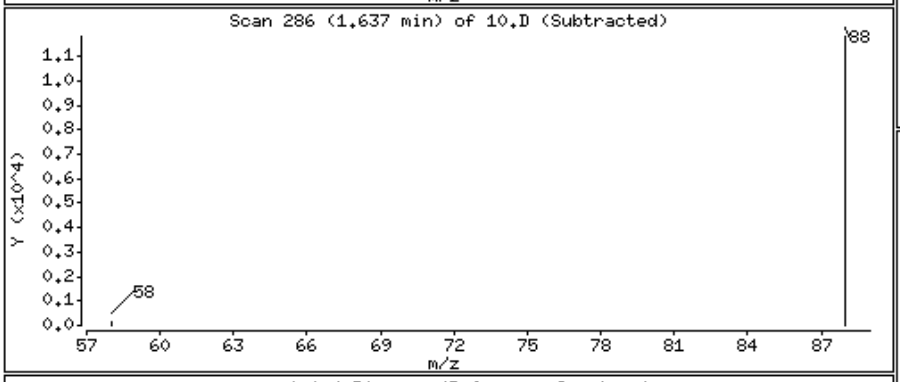
Column diameter: 0.28

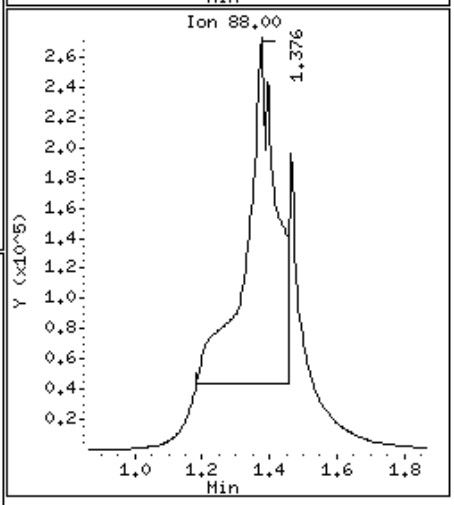
1 1,4-Dioxane

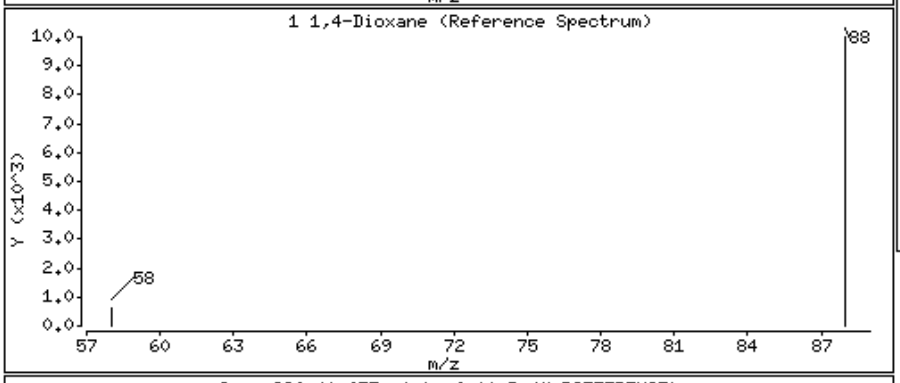
Concentration: 0.02560 ug/L

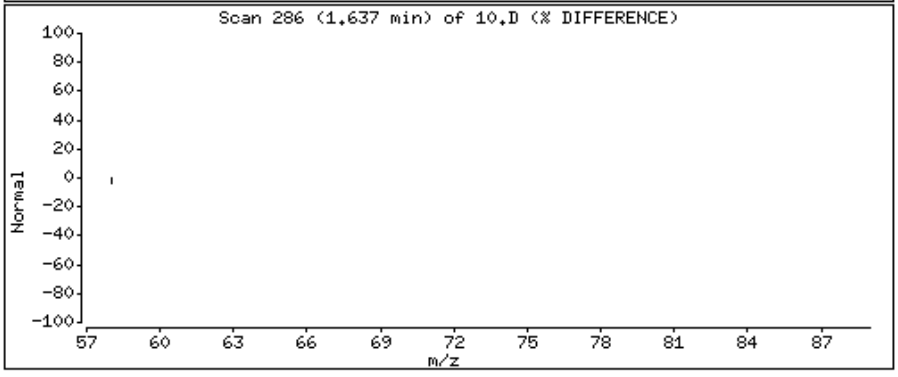












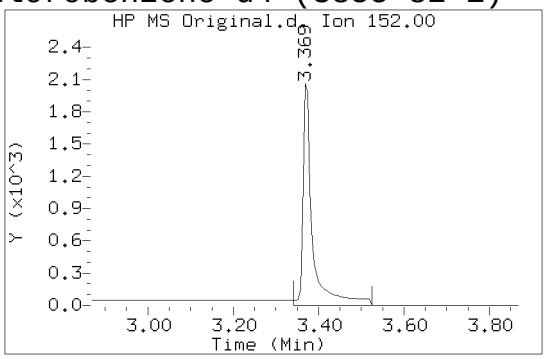
Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\10.D
Inj Date : 27-AUG-2022 13:47
InstruID : SV6.i
LabSampID : HS22080927-10

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

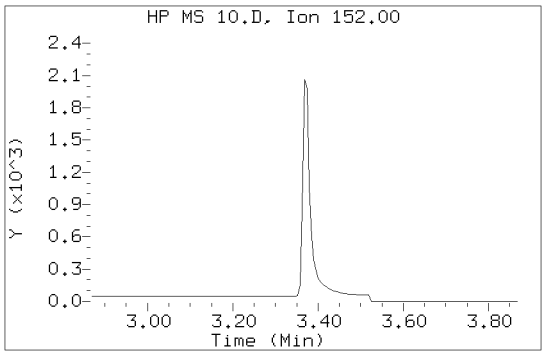
BEFORE

MASS
152
AREA
3120
HEIGHT
2062
27-Aug-2022
14:02
ALSHS
Server



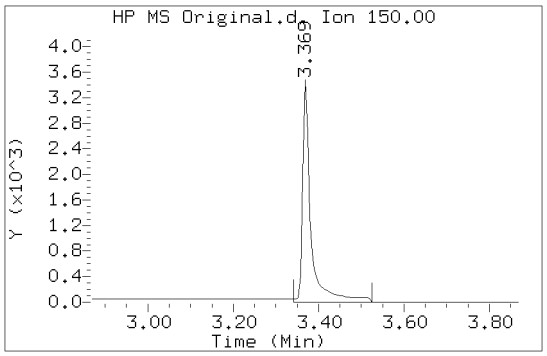
AFTER

MASS
152
AREA
5042
HEIGHT
2062
30-Aug-2022
16:21



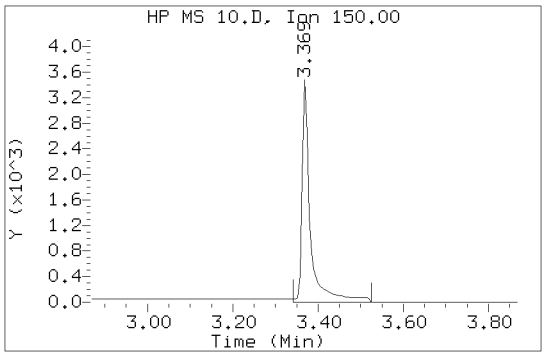
BEFORE

MASS
150
AREA
4633
HEIGHT
3480
27-Aug-2022
14:02
ALSHS
Server



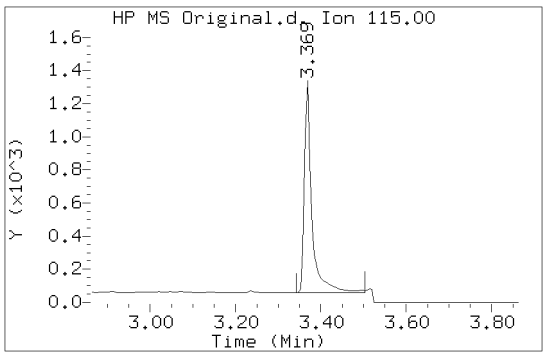
AFTER

MASS
150
AREA
4633
HEIGHT
3480
30-Aug-2022
16:21



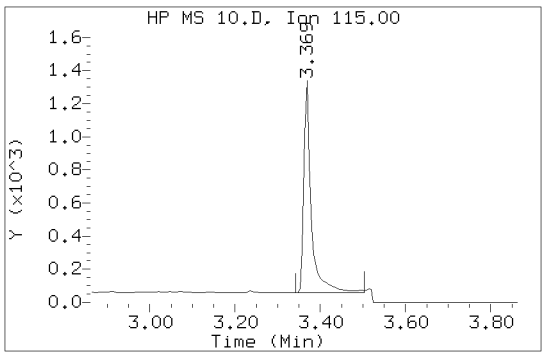
BEFORE

MASS
115
AREA
1542
HEIGHT
1281
27-Aug-2022
14:02
ALSHS
Server



AFTER

MASS
115
AREA
1542
HEIGHT
1281
30-Aug-2022
16:21

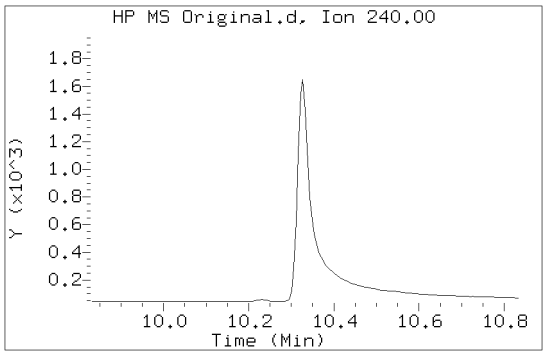


Chrysene-d12 (1719-03-5)

Reason Code:

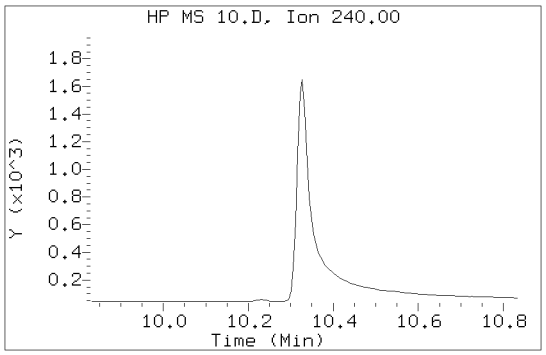
BEFORE

MASS
240
AREA
0
HEIGHT
0
27-Aug-2022
14:02
ALSHS
Server



AFTER

MASS
240
AREA
5194
HEIGHT
1599
30-Aug-2022
16:21



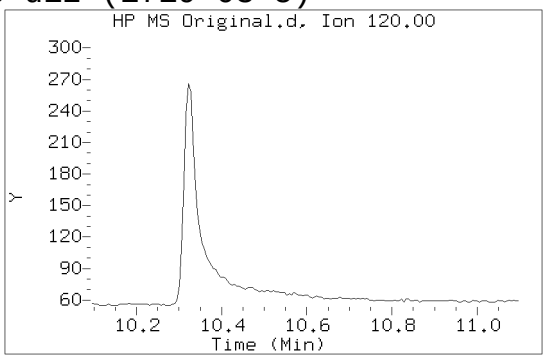
Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\10.D
Inj Date : 27-AUG-2022 13:47
InstruID : SV6.i
LabSampID : HS22080927-10

Chrysene-d12 (1719-03-5)

Reason Code:

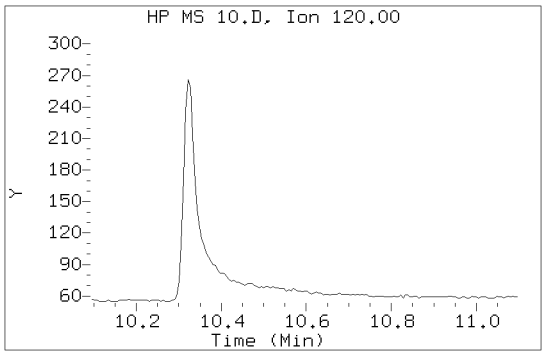
BEFORE

MASS
120
AREA
0
HEIGHT
0
27-Aug-2022
14:02
ALSHS
Server



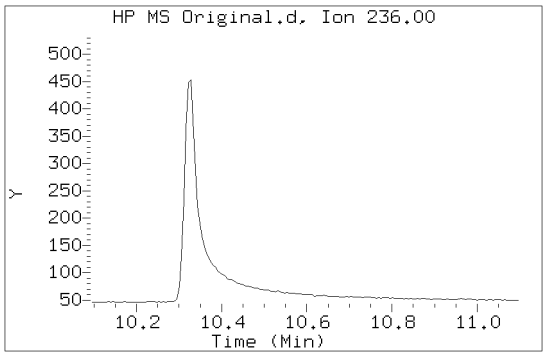
AFTER

MASS
120
AREA
0
HEIGHT
0
30-Aug-2022
16:21



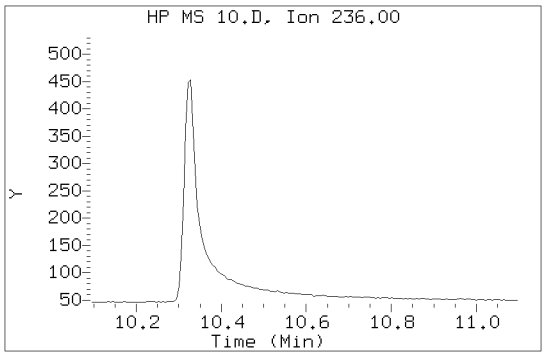
BEFORE

MASS
236
AREA
0
HEIGHT
0
27-Aug-2022
14:02
ALSHS
Server



AFTER

MASS
236
AREA
0
HEIGHT
0
30-Aug-2022
16:21

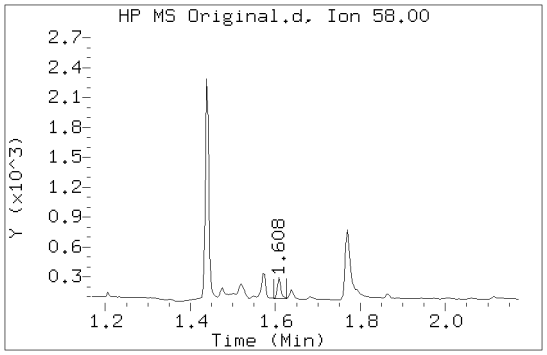


1,4-Dioxane ()

Reason Code:

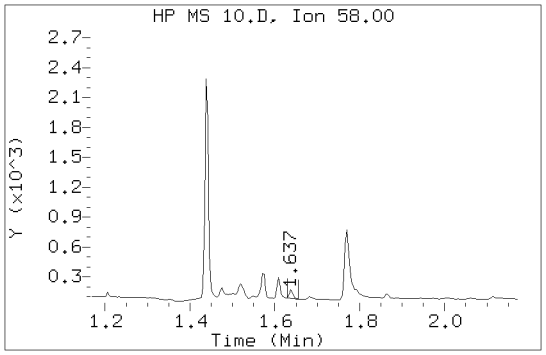
BEFORE

MASS
58
AREA
121
HEIGHT
208
27-Aug-2022
14:02
ALSHS
Server



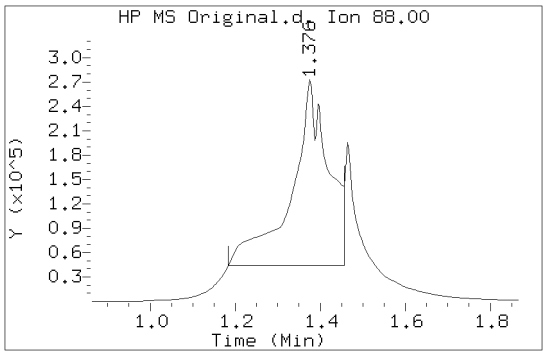
AFTER

MASS
58
AREA
53
HEIGHT
84
30-Aug-2022
16:21



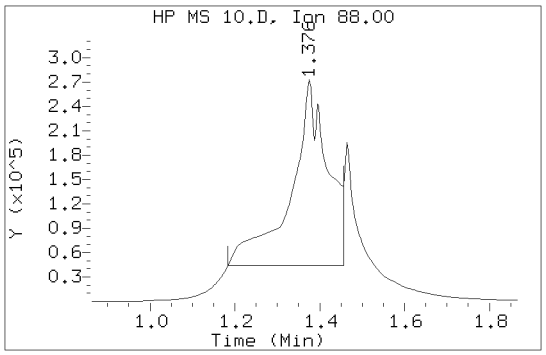
BEFORE

MASS
88
AREA
1386340
HEIGHT
228664
27-Aug-2022
14:02
ALSHS
Server



AFTER

MASS
88
AREA
1386340
HEIGHT
228664
30-Aug-2022
16:21



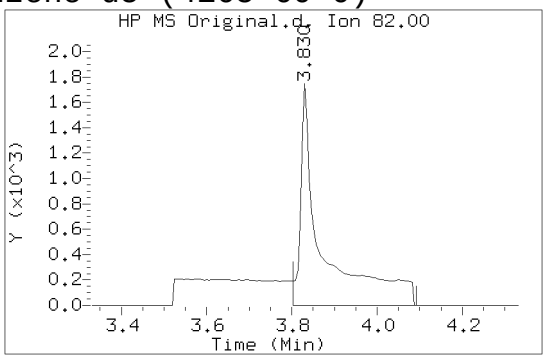
Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\10.D
Inj Date : 27-AUG-2022 13:47
InstruID : SV6.i
LabSampID : HS22080927-10

Nitrobenzene-d5 (4165-60-0)

Reason Code:

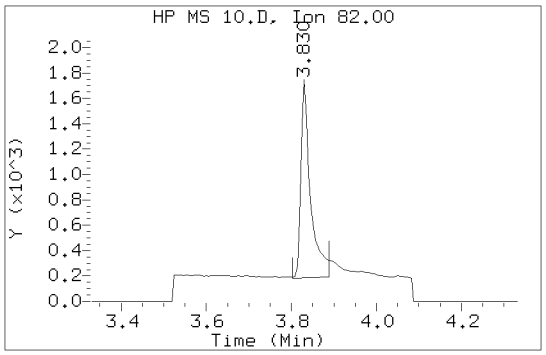
BEFORE

MASS
82
AREA
6066
HEIGHT
1747
27-Aug-2022
14:02
ALSHS
Server



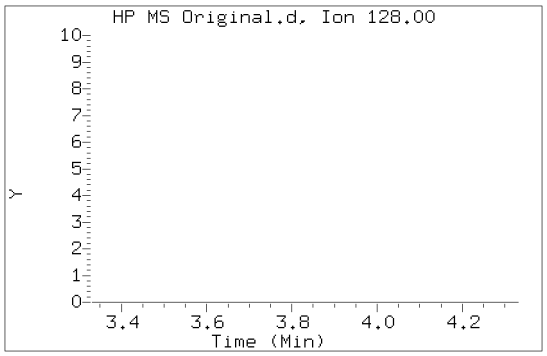
AFTER

MASS
82
AREA
2469
HEIGHT
1560
30-Aug-2022
16:21



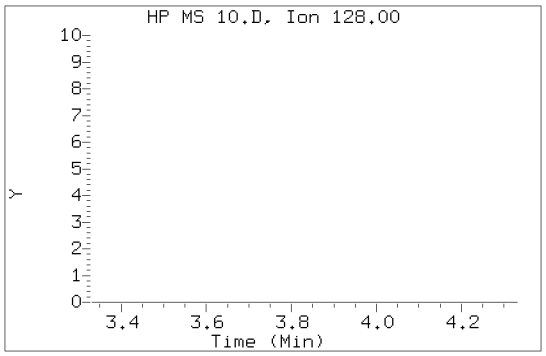
BEFORE

MASS
128
AREA
0
HEIGHT
0
27-Aug-2022
14:02
ALSHS
Server



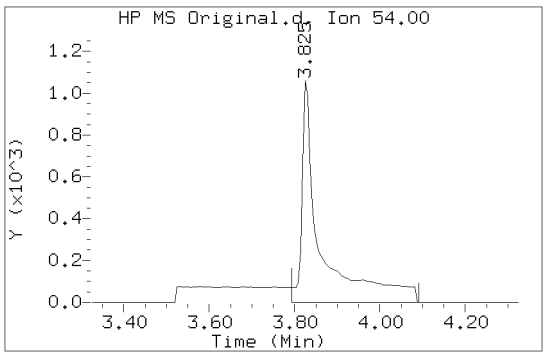
AFTER

MASS
128
AREA
0
HEIGHT
0
30-Aug-2022
16:21



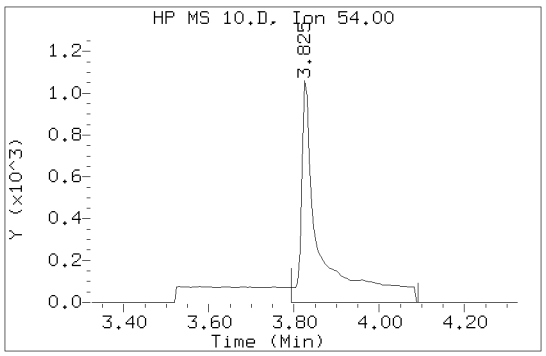
BEFORE

MASS
54
AREA
3166
HEIGHT
1060
27-Aug-2022
14:02
ALSHS
Server



AFTER

MASS
54
AREA
3166
HEIGHT
1060
30-Aug-2022
16:21

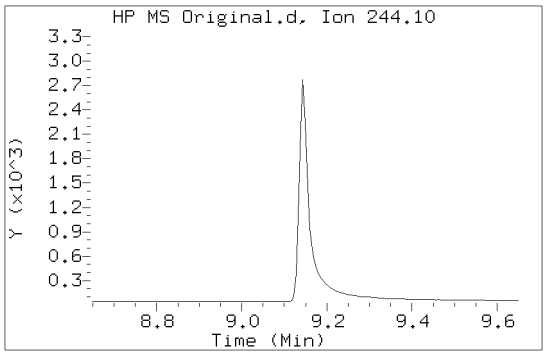


4-Terphenyl-d14 (1718-51-0)

Reason Code:

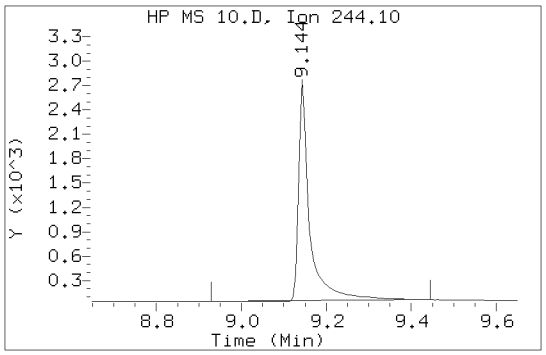
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
27-Aug-2022
14:02
ALSHS
Server



AFTER

MASS
244.1
AREA
4843
HEIGHT
2717
30-Aug-2022
16:21

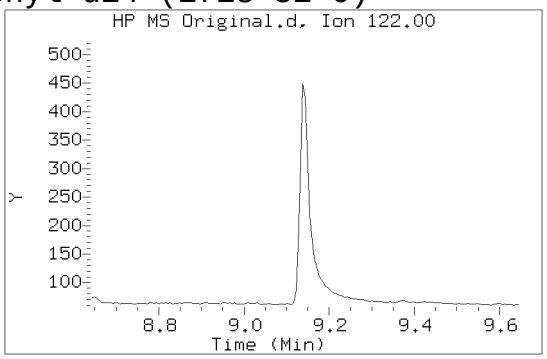


Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\10.D
Inj Date : 27-AUG-2022 13:47
InstruID : SV6.i
LabSampID : HS22080927-10

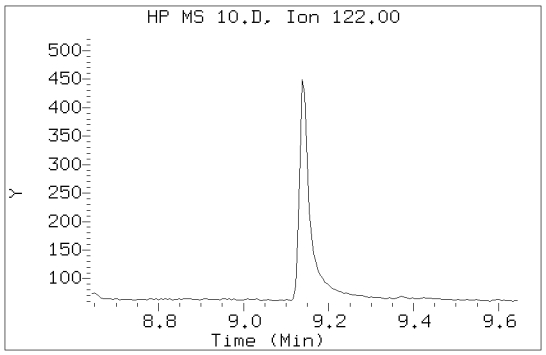
4-Terphenyl-d14 (1718-51-0)

Reason Code:

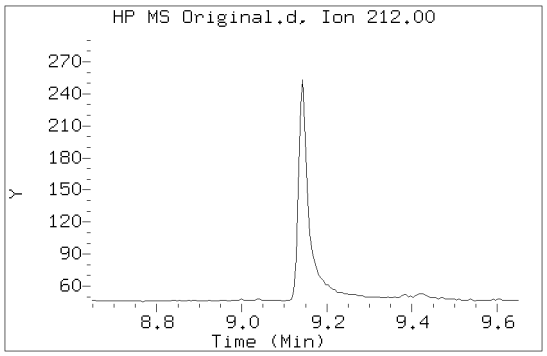
BEFORE
MASS
122
AREA
0
HEIGHT
0
27-Aug-2022
14:02
ALSHS
Server



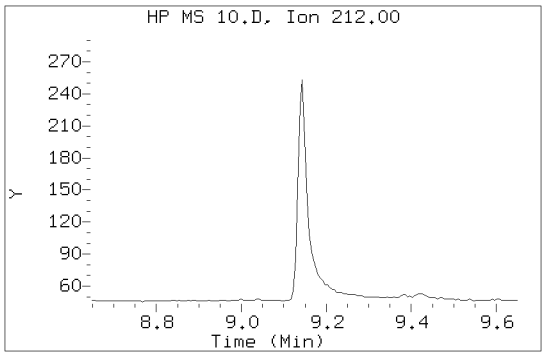
AFTER
MASS
122
AREA
0
HEIGHT
0
30-Aug-2022
16:21



BEFORE
MASS
212
AREA
0
HEIGHT
0
27-Aug-2022
14:02
ALSHS
Server



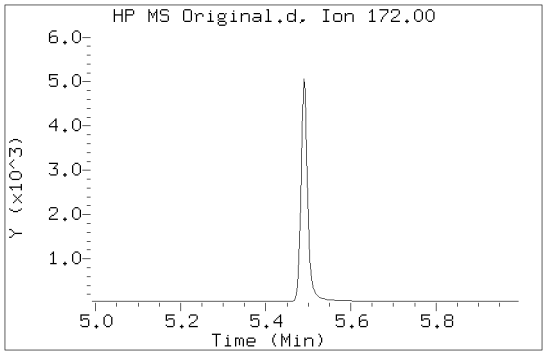
AFTER
MASS
212
AREA
0
HEIGHT
0
30-Aug-2022
16:21



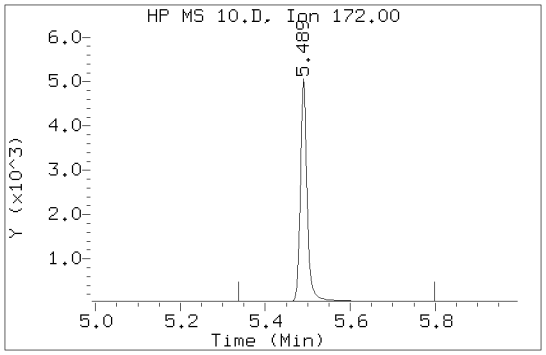
2-Fluorobiphenyl (321-60-8)

Reason Code:

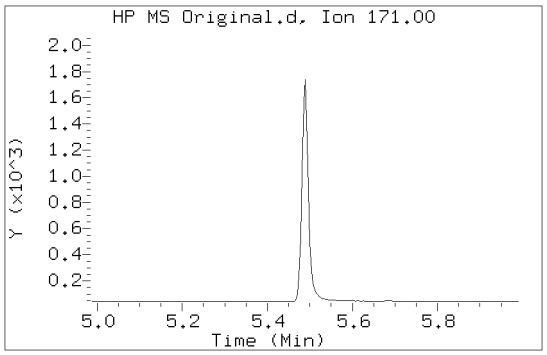
BEFORE
MASS
172
AREA
0
HEIGHT
0
27-Aug-2022
14:02
ALSHS
Server



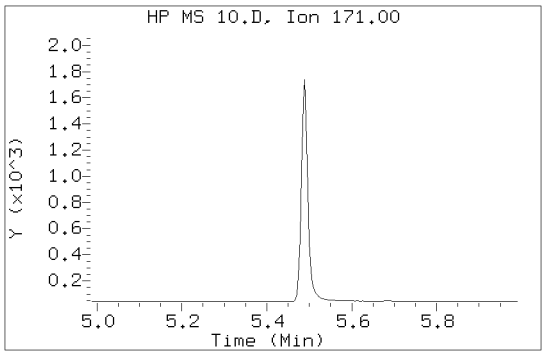
AFTER
MASS
172
AREA
5591
HEIGHT
5016
30-Aug-2022
16:21



BEFORE
MASS
171
AREA
0
HEIGHT
0
27-Aug-2022
14:02
ALSHS
Server



AFTER
MASS
171
AREA
0
HEIGHT
0
30-Aug-2022
16:21



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220827.b\32.D
Lab Smp Id: 1,4-DIOX-CCV Client Smp ID: 1,4-DIOX-CCV
Inj Date : 27-AUG-2022 20:22
Operator : LG Inst ID: SV6.i
Smp Info : 1,4-DIOX-0.08;1,4-DIOX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220827.b\DXSIM.m
Meth Date : 07-Sep-2022 13:04 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 12:56 Cal File: 009.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)	
* 20 1,4-Dichlorobenzene-d4	152	3.368	3.368	(1.000)	4666	0.10000		(aM)
* 45 Naphthalene-d8	136	4.479	4.479	(1.000)	10334	0.10000		
$ 33 Nitrobenzene-d5	82	3.841	3.841	(0.858)	2519	0.08000	0.07312	(QM)
* 86 Acenaphthene-d10	164	6.143	6.143	(1.000)	6220	0.10000		(Q)
$ 69 2-Fluorobiphenyl	172	5.500	5.500	(0.895)	6879	0.08000	0.07105	(QM)
* 126 Phenanthrene-d10	188	7.589	7.589	(1.000)	8322	0.10000		
* 182 Chrysene-d12	240	10.343	10.343	(1.000)	4782	0.10000		(M)
$ 158 4-Terphenyl-d14	244	9.154	9.154	(0.885)	6628	0.08000	0.07372	(M)
* 198 Perylene-d12	264	12.335	12.335	(1.000)	3066	0.10000		
1 1,4-Dioxane	58	1.644	1.644	(0.488)	161	0.08000	0.08405	(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.

01140266

Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\32.D

Date : 27-AUG-2022 20:22

Client ID: 1,4-DIOX-CCV

Instrument: SV6.i

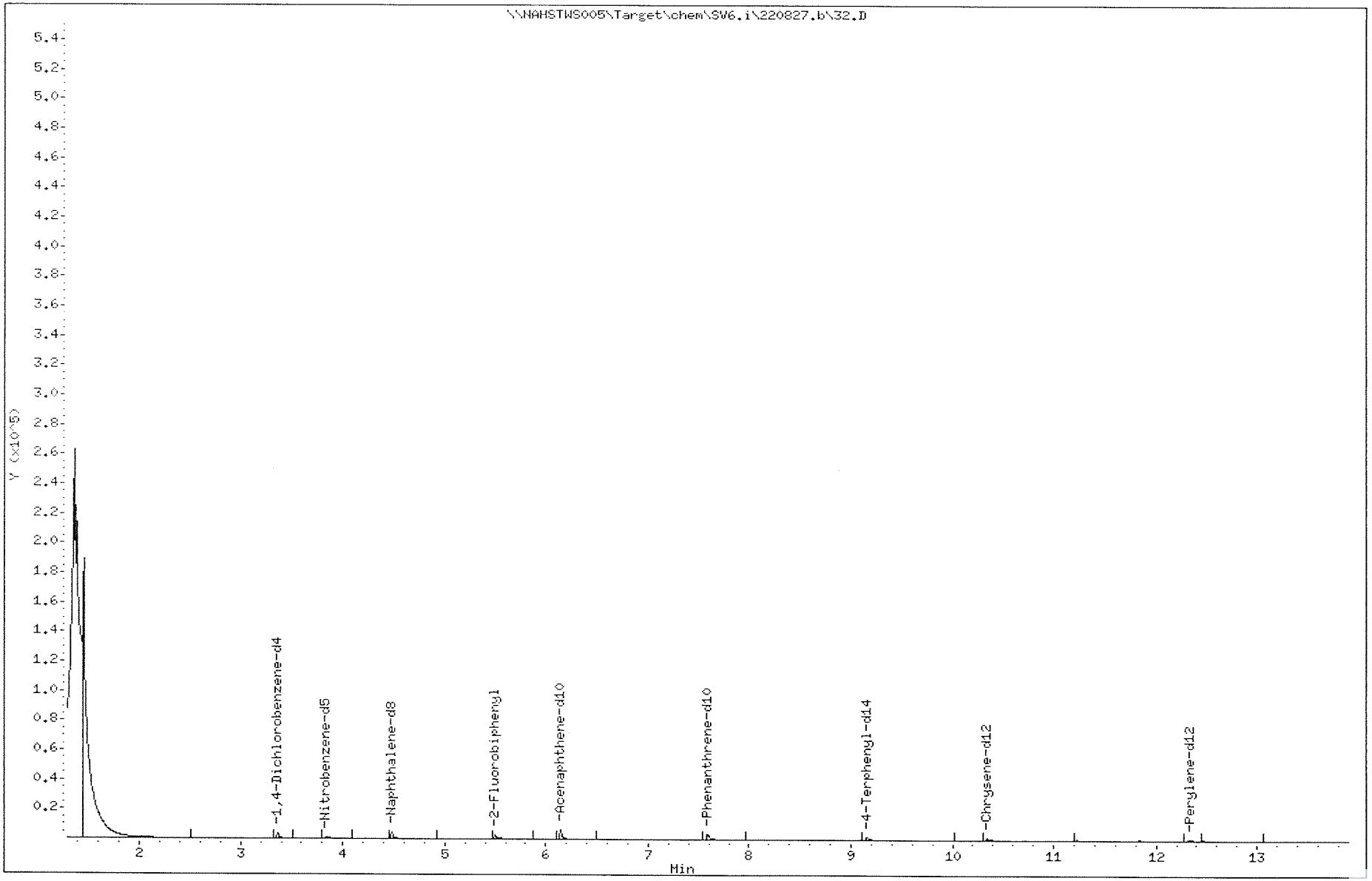
Sample Info: 1,4-DIOX-0.08;1,4-DIOX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



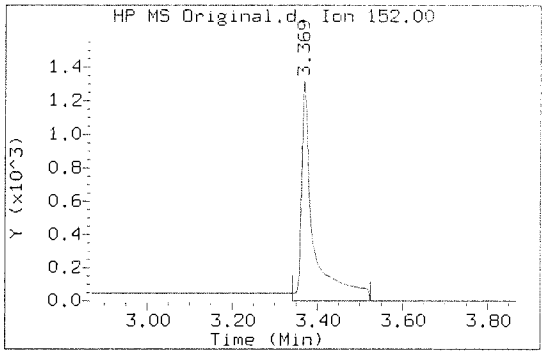
Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\32.D
Inj Date : 27-AUG-2022 20:22
InstruID : SV6.i
LabSampID : 1,4-DIOX-CCV

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

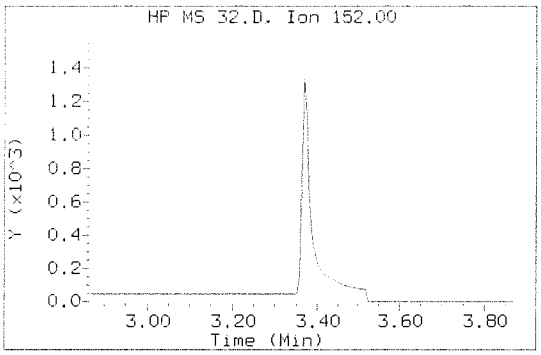
BEFORE

MASS
152
AREA
2574
HEIGHT
1329
27-Aug-2022
20:37
ALSHS
Server



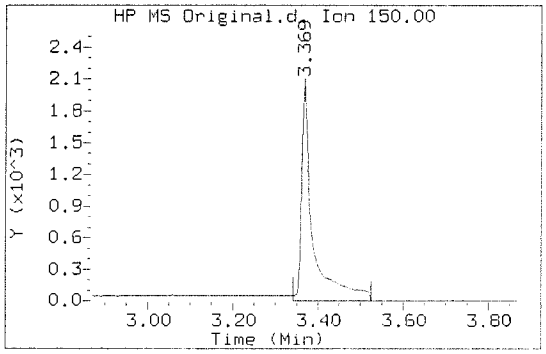
AFTER

MASS
152
AREA
4666
HEIGHT
1329
07-Sep-2022
13:04
ALSHS
Ser



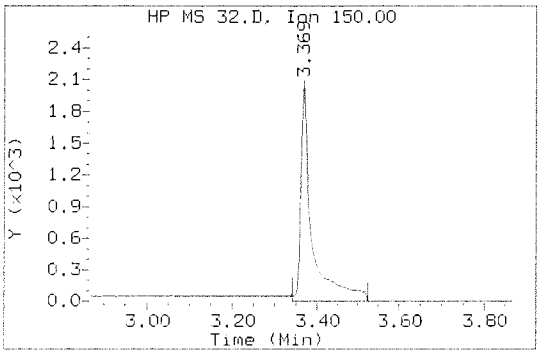
BEFORE

MASS
150
AREA
3781
HEIGHT
2100
27-Aug-2022
20:37
ALSHS
Server



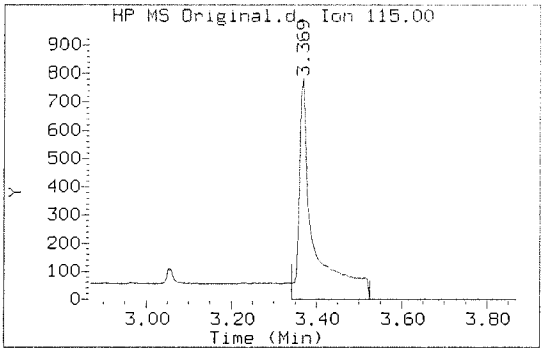
AFTER

MASS
150
AREA
3781
HEIGHT
2100
07-Sep-2022
13:04
ALSHS
Ser



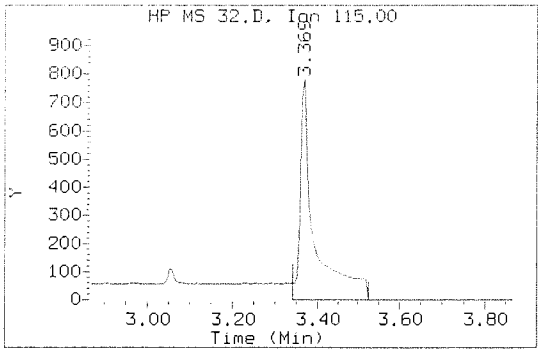
BEFORE

MASS
115
AREA
1839
HEIGHT
782
27-Aug-2022
20:37
ALSHS
Server



AFTER

MASS
115
AREA
1639
HEIGHT
782
07-Sep-2022
13:04
ALSHS
Ser

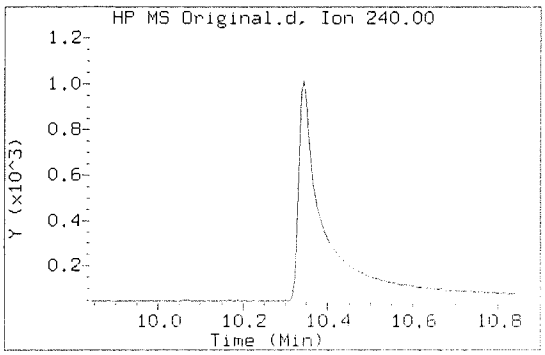


Chrysene-d12 (1719-03-5)

Reason Code:

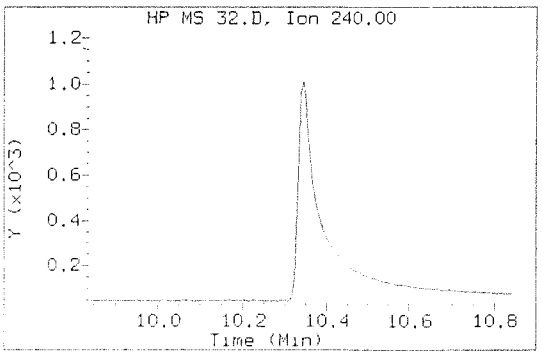
BEFORE

MASS
240
AREA
0
HEIGHT
0
27-Aug-2022
20:37
ALSHS
Server



AFTER

MASS
240
AREA
4782
HEIGHT
968
07-Sep-2022
13:04
ALSHS
Ser

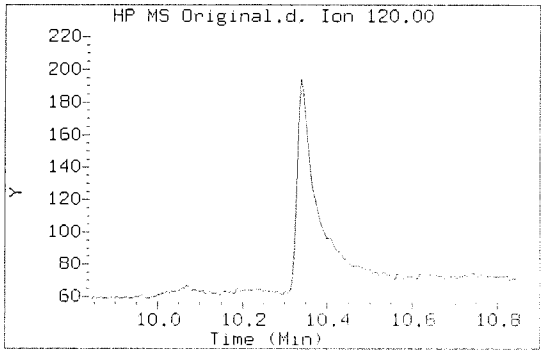


Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\32.D
Inj Date : 27-AUG-2022 20:22
InstruID : SV6.i
LabSampID : 1,4-DIOX-CCV

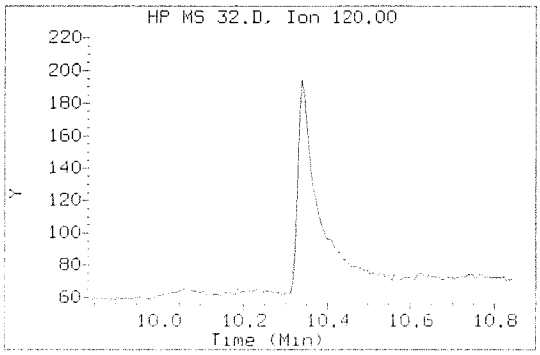
Chrysene-d12 (1719-03-5)

Reason Code:

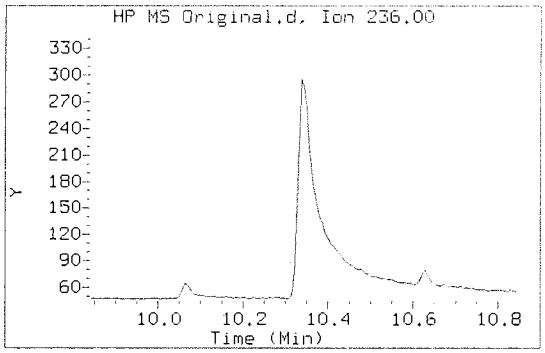
BEFORE
MASS
120
AREA
0
HEIGHT
0
27-Aug-2022
20:37
ALSHS
Server



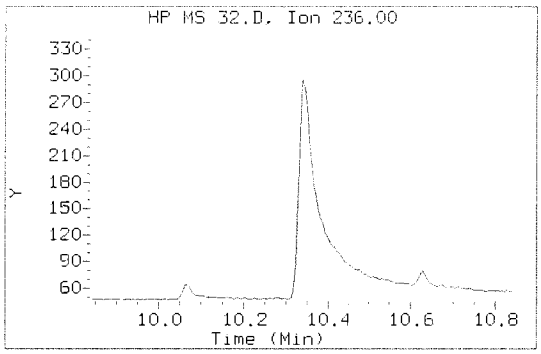
AFTER
MASS
120
AREA
0
HEIGHT
0
07-Sep-2022
13:04
ALSHS
Ser



BEFORE
MASS
236
AREA
0
HEIGHT
0
27-Aug-2022
20:37
ALSHS
Server



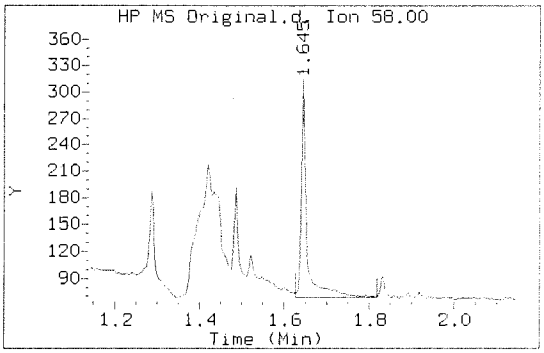
AFTER
MASS
236
AREA
0
HEIGHT
0
07-Sep-2022
13:04
ALSHS
Ser



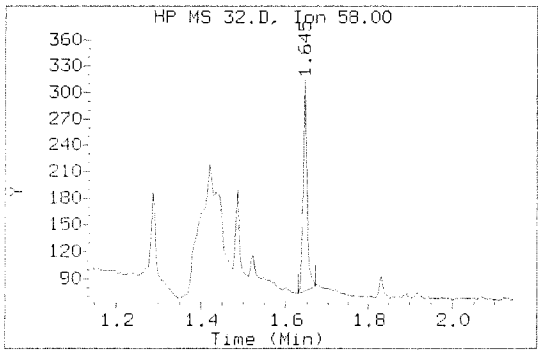
1,4-Dioxane ()

Reason Code:

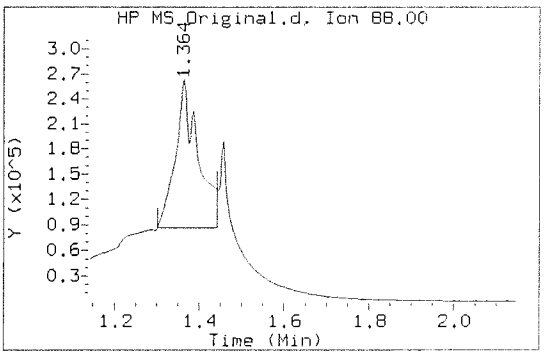
BEFORE
MASS
58
AREA
227
HEIGHT
246
27-Aug-2022
20:37
ALSHS
Server



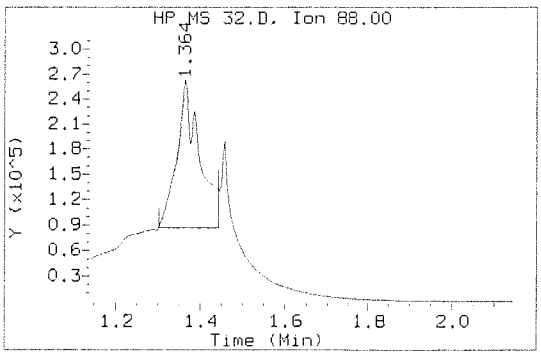
AFTER
MASS
58
AREA
101
HEIGHT
[illegible]
07-Sep-2022
13:04
ALSHS
Ser



BEFORE
MASS
88
AREA
645812
HEIGHT
175512
27-Aug-2022
20:37
ALSHS
Server



AFTER
MASS
88
AREA
645812
HEIGHT
175512
07-Sep-2022
13:04
ALSHS
Ser

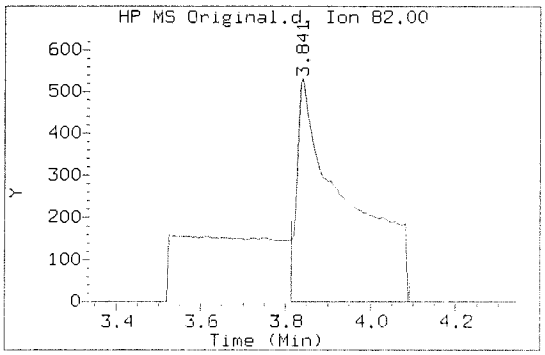


Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\32.D
Inj Date : 27-AUG-2022 20:22
InstruID : SV6.i
LabSampID : 1,4-DIOX-CCV

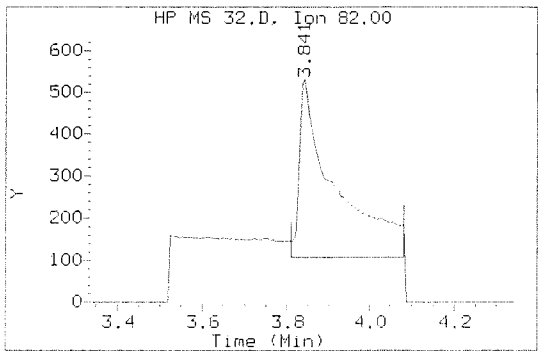
Nitrobenzene-d5 (4165-60-0)

Reason Code:

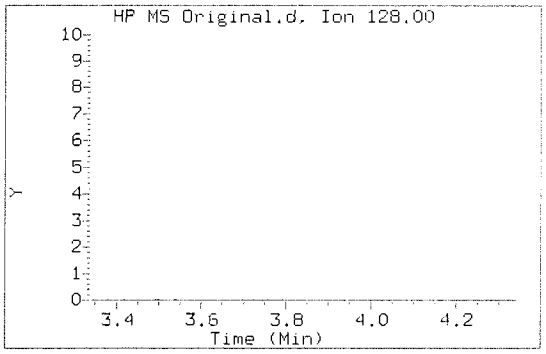
BEFORE
MASS
82
AREA
4254
HEIGHT
530
27-Aug-2022
20:37
ALSHS
Server



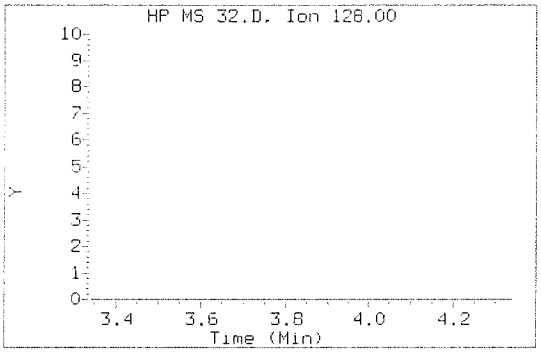
AFTER
MASS
82
AREA
2519
HEIGHT
422
07-Sep-2022
13:04
ALSHS
Ser



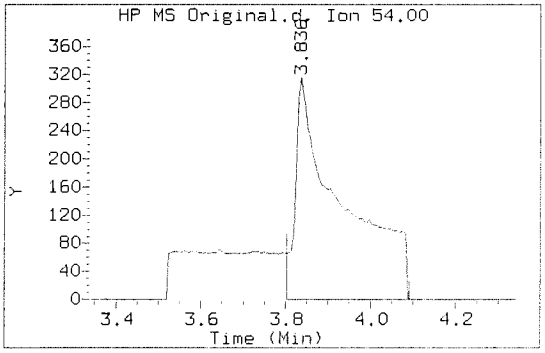
BEFORE
MASS
128
AREA
0
HEIGHT
0
27-Aug-2022
20:37
ALSHS
Server



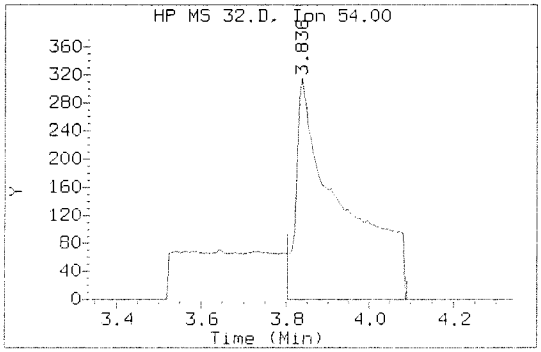
AFTER
MASS
128
AREA
0
HEIGHT
0
07-Sep-2022
13:04
ALSHS
Ser



BEFORE
MASS
54
AREA
2375
HEIGHT
316
27-Aug-2022
20:37
ALSHS
Server



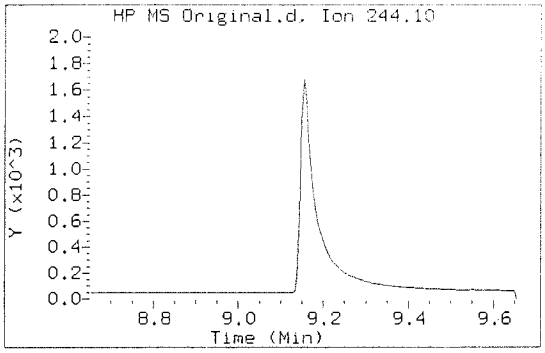
AFTER
MASS
54
AREA
2375
HEIGHT
316
07-Sep-2022
13:04
ALSHS
Ser



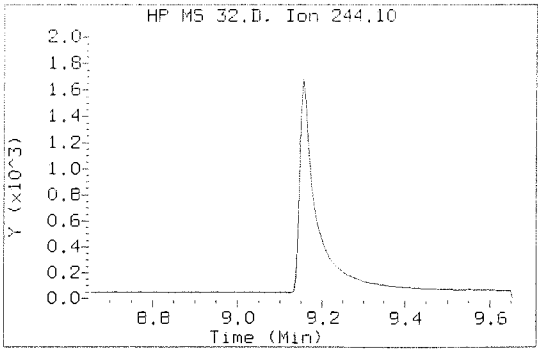
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
0
HEIGHT
0
27-Aug-2022
20:37
ALSHS
Server



AFTER
MASS
244.1
AREA
6628
HEIGHT
1654
07-Sep-2022
13:04
ALSHS
Ser

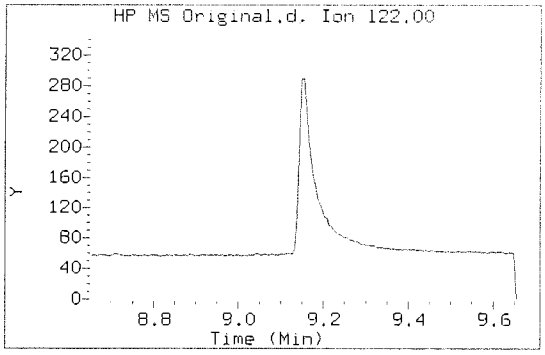


Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\32.D
Inj Date : 27-AUG-2022 20:22
InstruID : SV6.i
LabSampID : 1,4-DIOX-CCV

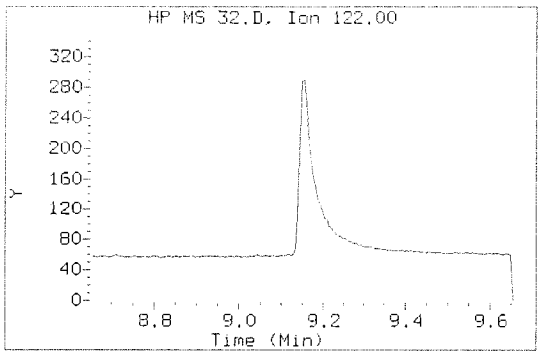
4-Terphenyl-d14 (1718-51-0)

Reason Code:

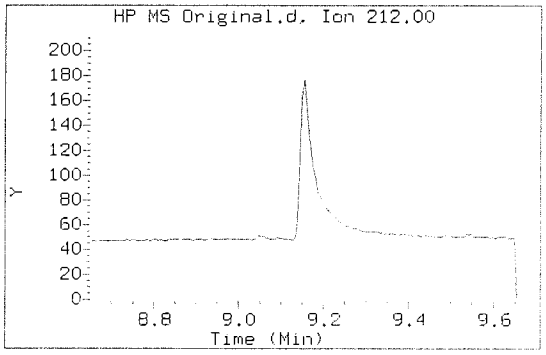
BEFORE
MASS
122
AREA
0
HEIGHT
0
27-Aug-2022
20:37
ALSHS
Server



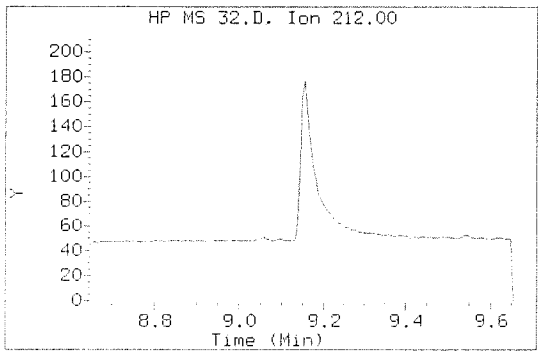
AFTER
MASS
122
AREA
0
HEIGHT
0
07-Sep-2022
13:04
ALSHS
Ser



BEFORE
MASS
212
AREA
0
HEIGHT
0
27-Aug-2022
20:37
ALSHS
Server



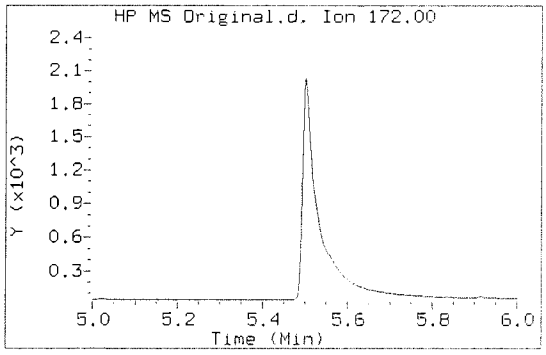
AFTER
MASS
212
AREA
0
HEIGHT
0
07-Sep-2022
13:04
ALSHS
Ser



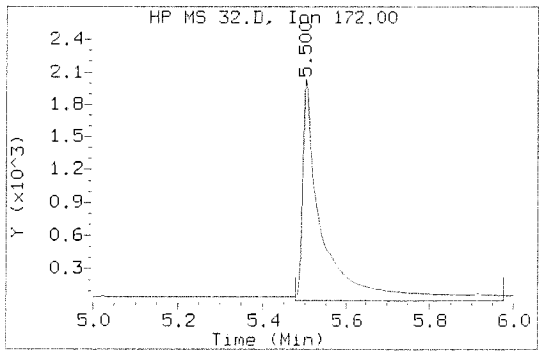
2-Fluorobiphenyl (321-60-8)

Reason Code:

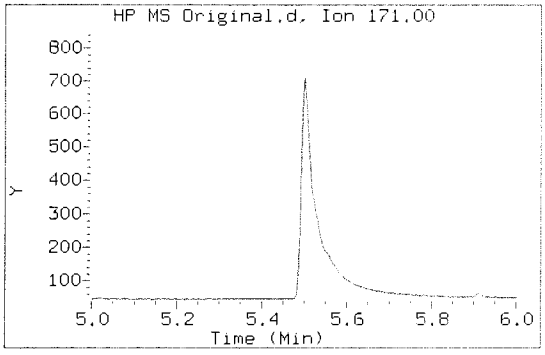
BEFORE
MASS
172
AREA
0
HEIGHT
0
27-Aug-2022
20:37
ALSHS
Server



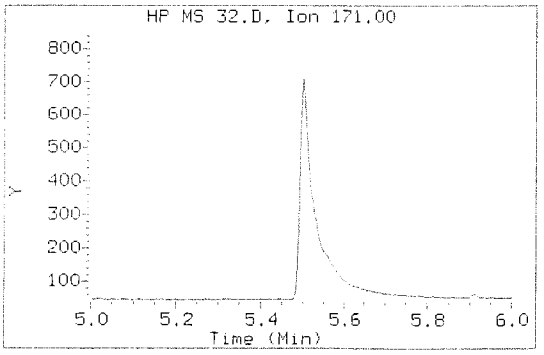
AFTER
MASS
172
AREA
6879
HEIGHT
2021
07-Sep-2022
13:04
ALSHS
Ser



BEFORE
MASS
171
AREA
0
HEIGHT
0
27-Aug-2022
20:37
ALSHS
Server



AFTER
MASS
171
AREA
0
HEIGHT
0
07-Sep-2022
13:04
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\SV6.i\220829.b\01.D

Date : 29-AUG-2022 09:25

Client ID: DFTPP

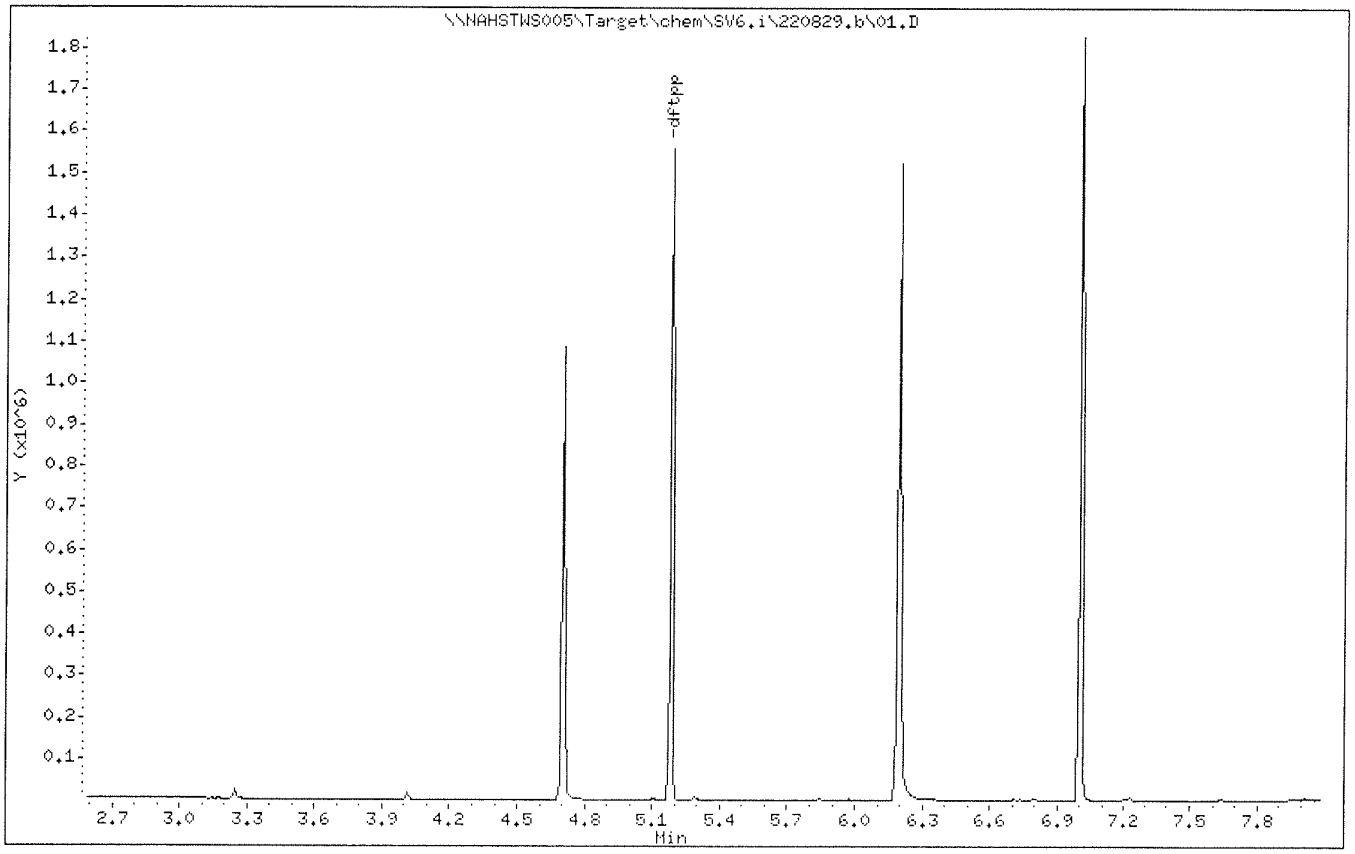
Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\SV6.i\220829.b\01.D

Date : 29-AUG-2022 09:25

Client ID: DFTPP

Instrument: SV6.i

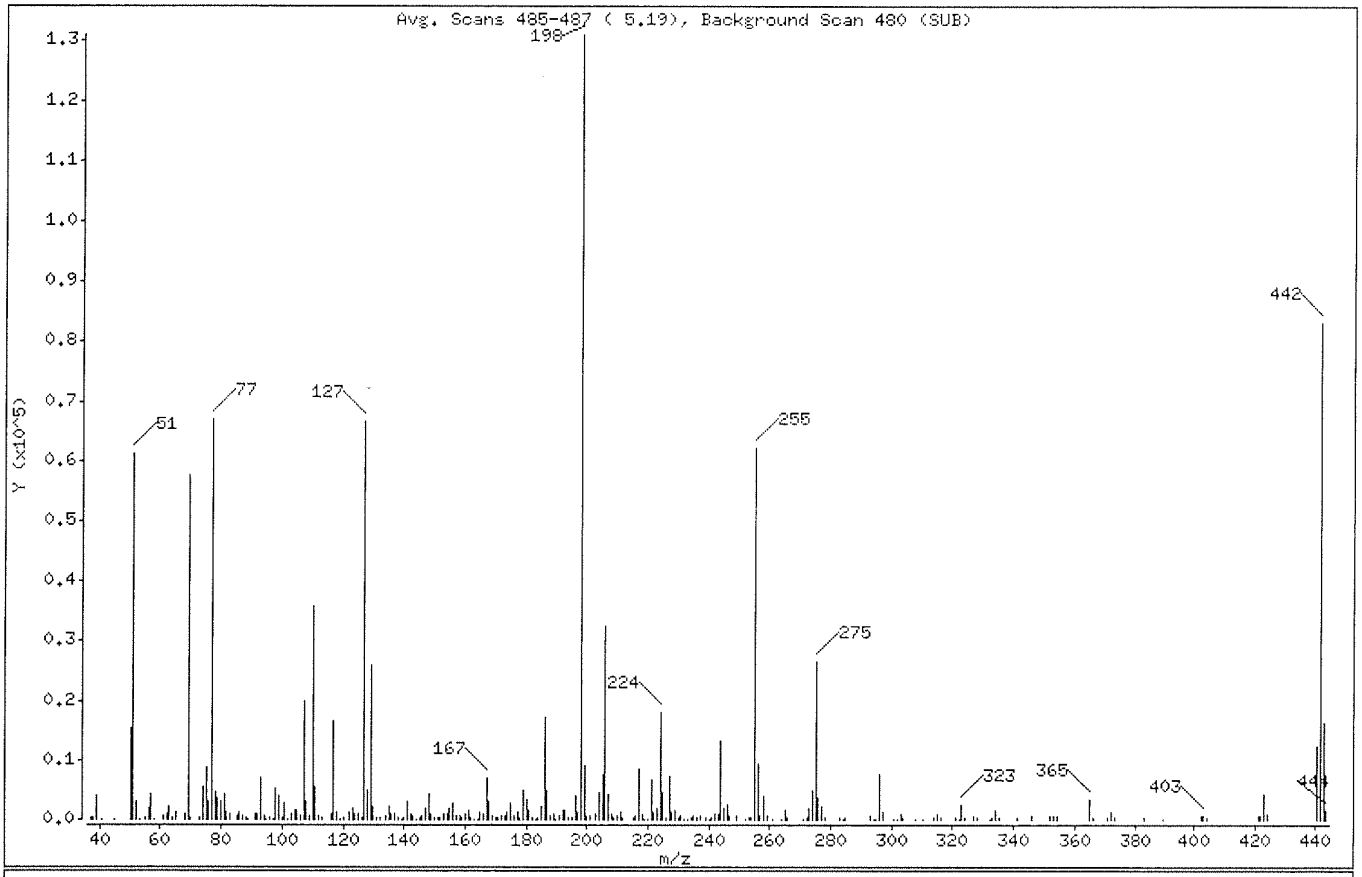
Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	46.73
68	Less than 2.00% of mass 69	0.60 (1.37)
69	Mass 69 relative abundance	43.89
70	Less than 2.00% of mass 69	0.20 (0.45)
127	10.00 - 80.00% of mass 198	50.76
197	Less than 2.00% of mass 198	0.85
199	5.00 - 9.00% of mass 198	6.88
275	10.00 - 60.00% of mass 198	20.20
365	1.00 - 100.00% of mass 198	2.63
441	Present, but less than mass 443	9.49
442	50.00 - 150.00% of mass 198	63.46
443	15.00 - 24.00% of mass 442	12.38 (19.50)

Data File: \\NAHSTWS005\Target\chem\SV6.i\220829.b\01.D

Date : 29-AUG-2022 09:25

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: Avg. Scans 485-487 (5.19), Background Scan 480 (SUB)

Location of Maximum: 198.00

Number of points: 257

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	186	122.00	1188	188.00	468	261.00	57
38.00	271	123.00	1840	189.00	984	264.00	68
39.00	3941	124.00	856	190.00	86	265.00	1489
41.00	131	125.00	947	191.00	526	266.00	308
45.00	64	126.00	320	192.00	1566	271.00	83
50.00	15324	127.00	66504	193.00	1610	272.00	223
51.00	61224	128.00	4839	194.00	321	273.00	1914
52.00	3059	129.00	25816	195.00	178	274.00	4847
53.00	53	130.00	2141	196.00	3934	275.00	26464
55.00	269	131.00	449	197.00	1116	276.00	3496
56.00	1709	132.00	187	198.00	131008	277.00	2104
57.00	4105	134.00	716	199.00	9010	278.00	383
58.00	145	135.00	2113	200.00	657	283.00	260
61.00	637	136.00	793	201.00	634	284.00	69
62.00	788	137.00	928	203.00	886	285.00	400
63.00	2202	138.00	161	204.00	4659	293.00	457
64.00	244	139.00	65	205.00	7635	294.00	57
65.00	1132	140.00	268	206.00	32560	295.00	61
68.00	788	141.00	3083	207.00	4074	296.00	7504
69.00	57496	142.00	1045	208.00	1022	297.00	1108
70.00	261	143.00	690	209.00	335	301.00	56
73.00	444	144.00	150	210.00	509	302.00	59
74.00	5482	145.00	152	211.00	1232	303.00	807
75.00	8836	146.00	549	212.00	162	304.00	226
76.00	3041	147.00	1699	215.00	357	308.00	55
77.00	66784	148.00	4093	216.00	739	310.00	50
78.00	4409	149.00	808	217.00	8441	314.00	390
79.00	3756	150.00	161	218.00	1054	315.00	833
80.00	3026	151.00	436	219.00	62	316.00	428
81.00	4271	152.00	211	220.00	58	321.00	236
82.00	1075	153.00	984	221.00	6494	322.00	55
83.00	1007	154.00	772	222.00	1210	323.00	2298
85.00	705	155.00	1725	223.00	1840	324.00	443
86.00	1297	156.00	2630	224.00	18080	327.00	453
87.00	596	157.00	527	225.00	4401	328.00	223

Data File: \\NAHSTWS005\Target\chem\SV6.i\220829.b\01.D

Date : 29-AUG-2022 09:25

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: Avg. Scans 485-487 (5.19), Background Scan 480 (SUB)
Location of Maximum: 198.00
Number of points: 257

m/z	Y	m/z	Y	m/z	Y	m/z	Y
88.00	171	158.00	612	226.00	448	332.00	67
89.00	58	159.00	441	227.00	7234	333.00	198
91.00	913	160.00	1002	228.00	1079	334.00	1450
92.00	1030	161.00	1551	229.00	1498	335.00	373
93.00	7012	162.00	406	230.00	158	341.00	315
94.00	475	163.00	56	231.00	628	346.00	514
95.00	101	164.00	133	232.00	51	352.00	728
96.00	295	165.00	1164	233.00	65	353.00	477
97.00	105	166.00	882	234.00	436	354.00	660
98.00	5266	167.00	6886	235.00	505	365.00	3444
99.00	3815	168.00	2865	236.00	370	366.00	406
100.00	368	169.00	519	237.00	535	371.00	153
101.00	2582	170.00	171	239.00	295	372.00	1146
102.00	123	171.00	217	240.00	146	373.00	283
103.00	766	172.00	576	241.00	417	383.00	319
104.00	1530	173.00	743	242.00	947	390.00	140
105.00	1542	174.00	1315	243.00	943	402.00	483
106.00	493	175.00	2621	244.00	13371	403.00	681
107.00	19760	176.00	726	245.00	1750	404.00	230
108.00	2980	177.00	1097	246.00	2448	421.00	580
109.00	455	178.00	396	247.00	458	422.00	497
110.00	35824	179.00	4767	249.00	467	423.00	4094
111.00	5377	180.00	3299	252.00	140	424.00	755
112.00	628	181.00	1535	253.00	340	441.00	12437
113.00	160	182.00	175	254.00	448	442.00	83144
116.00	976	183.00	64	255.00	61992	443.00	16213
117.00	16544	184.00	398	256.00	9206	444.00	1415
118.00	1116	185.00	2222	257.00	698		
119.00	115	186.00	17112	258.00	3796		
120.00	202	187.00	4838	259.00	621		

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220829.b\04.D
Lab Smp Id: 1 4-DIOX-CCV Client Smp ID: 1 4-DIOX-CCV
Inj Date : 29-AUG-2022 11:04
Operator : LG Inst ID: SV6.i
Smp Info : 1 4-DIOX-0.08;1 4-DIOX-0.08;2
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220829.b\DXSIM.m
Meth Date : 07-Sep-2022 13:08 Linh.Pham Quant Type: ISTD
Cal Date : 10-MAR-2022 12:56 Cal File: 009.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7122

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	3.319	3.324	(1.000)	6461	0.10000	(aM)
* 45 Naphthalene-d8	136	4.417	4.421	(1.000)	18105	0.10000	
$ 33 Nitrobenzene-d5	82	3.780	3.786	(0.856)	4652	0.08000	0.07708 (QM)
* 86 Acenaphthene-d10	164	6.080	6.081	(1.000)	10352	0.10000	(Q)
$ 69 2-Fluorobiphenyl	172	5.438	5.442	(0.894)	11751	0.08000	0.07292 (M)
* 126 Phenanthrene-d10	188	7.520	7.520	(1.000)	15296	0.10000	
* 182 Chrysene-d12	240	10.264	10.264	(1.000)	7293	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.091	9.091	(1.000)	10527	0.08000	0.07677
* 198 Perylene-d12	264	12.229	12.229	(1.000)	5301	0.10000	
1 1,4-Dioxane	58	1.637	1.645	(0.493)	246	0.08000	0.09274 (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.

01140276

Data File: \\NAHSTWS005\Target\chem\SV6.i\220829.b\04.D

Date : 29-AUG-2022 11:04

Client ID: 1 4-DIOX-CCV

Sample Info: 1 4-DIOX-0.08;1 4-DIOX-0.08;2

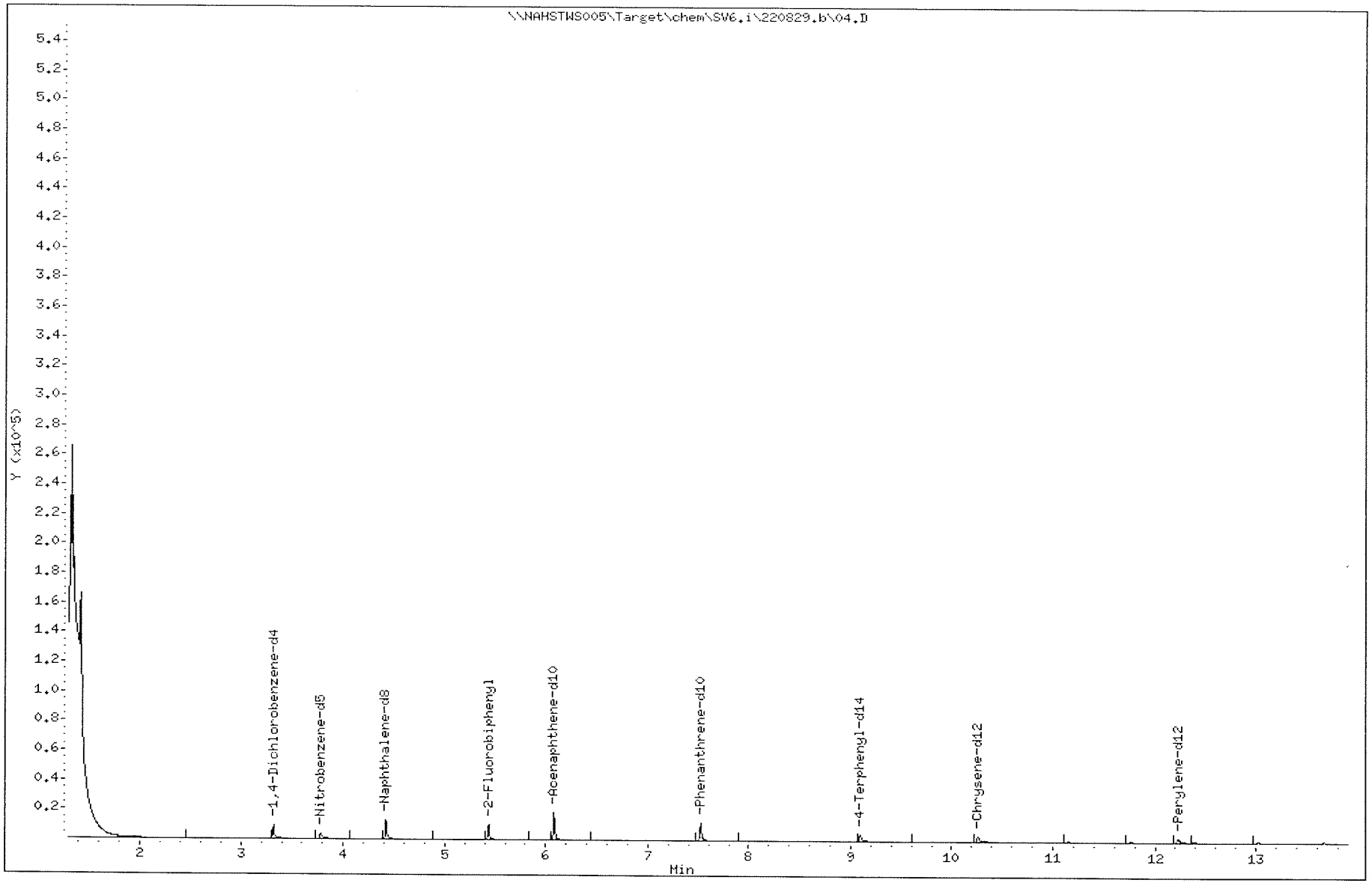
Purge Volume: 1000.0

Column phase: RTX-5SIL MS

Instrument: SV6.i

Operator: LG

Column diameter: 0.28

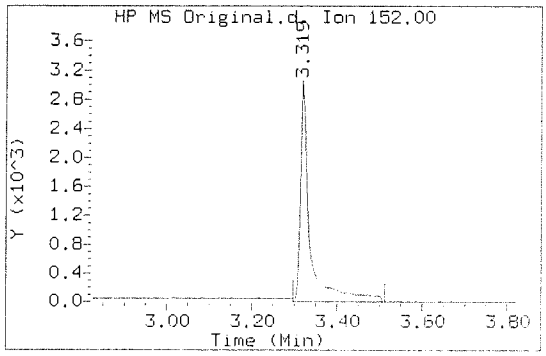


Data File : \\NAHSTWS005\Target\chem\SV6.i\220829.b\04.D
Inj Date : 29-AUG-2022 11:04
InstruID : SV6.i
LabSampID : 1 4-DIOX-CCV

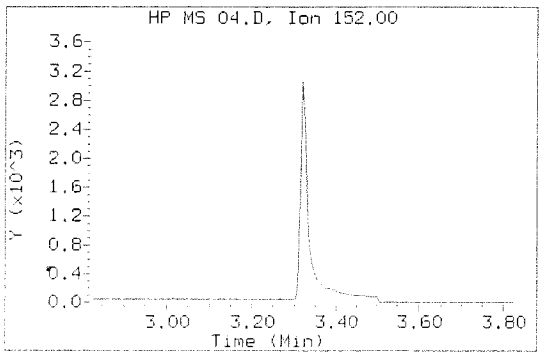
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

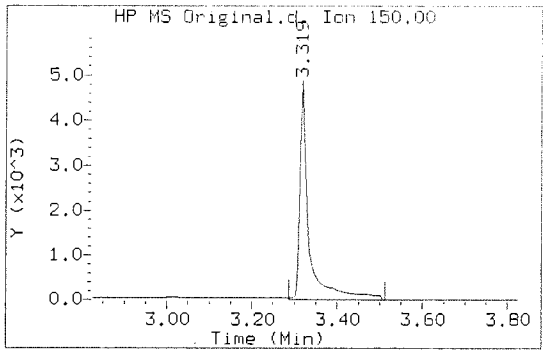
BEFORE
MASS
152
AREA
4763
HEIGHT
3062
29-Aug-2022
11:19
ALSHS
Server



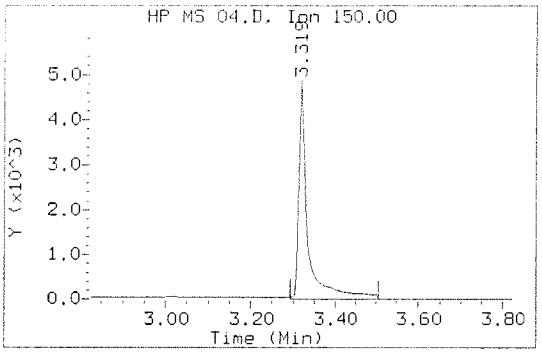
AFTER
MASS
152
AREA
6461
HEIGHT
3062
07-Sep-2022
13:09
ALSHS
Ser



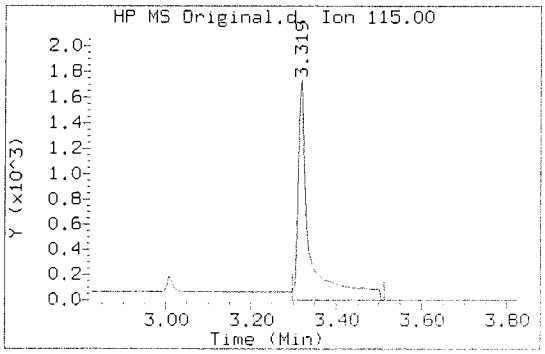
BEFORE
MASS
150
AREA
7214
HEIGHT
4893
29-Aug-2022
11:19
ALSHS
Server



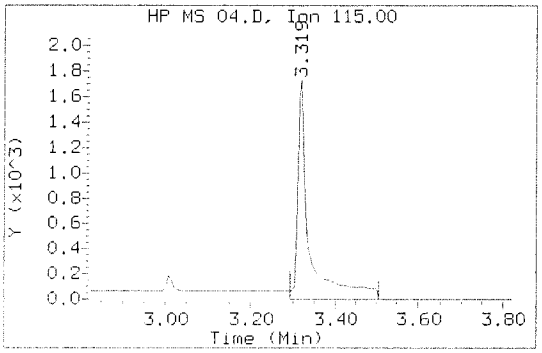
AFTER
MASS
150
AREA
7198
HEIGHT
4893
07-Sep-2022
13:09
ALSHS
Ser



BEFORE
MASS
115
AREA
3254
HEIGHT
1735
29-Aug-2022
11:19
ALSHS
Server



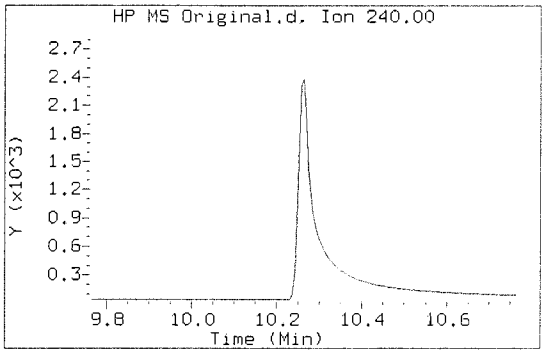
AFTER
MASS
115
AREA
3275
HEIGHT
1735
07-Sep-2022
13:09
ALSHS
Ser



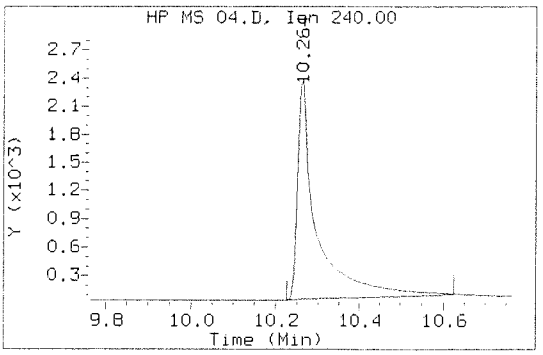
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
0
HEIGHT
0
29-Aug-2022
11:19
ALSHS
Server



AFTER
MASS
240
AREA
7293
HEIGHT
2324
07-Sep-2022
13:09
ALSHS
Ser

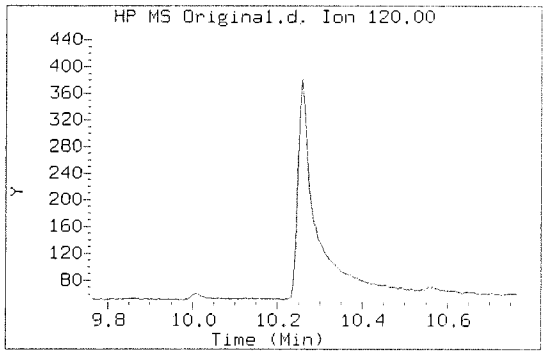


Data File : \\NAHSTWS005\Target\chem\SV6.i\220829.b\04.D
Inj Date : 29-AUG-2022 11:04
InstruID : SV6.i
LabSampID : 1 4-DIOX-CCV

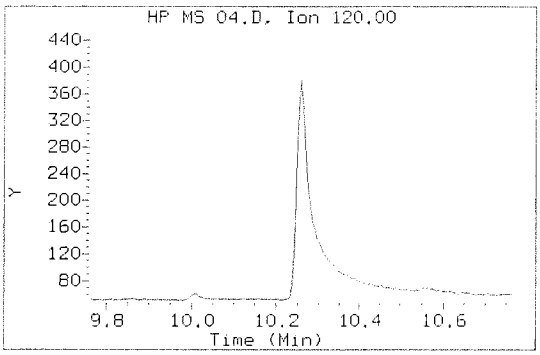
Chrysene-d12 (1719-03-5)

Reason Code:

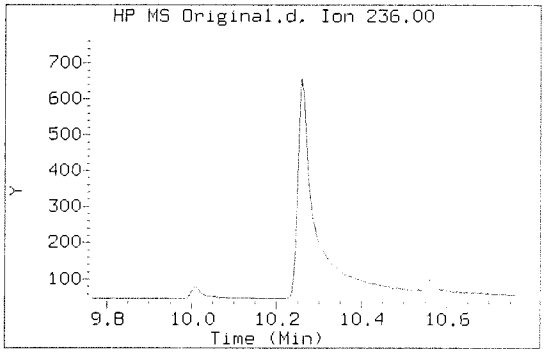
BEFORE
MASS
120
AREA
0
HEIGHT
0
29-Aug-2022
11:19
ALSHS
Server



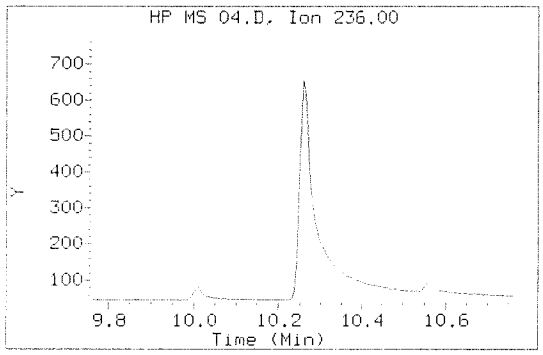
AFTER
MASS
120
AREA
0
HEIGHT
0
07-Sep-2022
13:09
ALSHS
Ser



BEFORE
MASS
236
AREA
0
HEIGHT
0
29-Aug-2022
11:19
ALSHS
Server



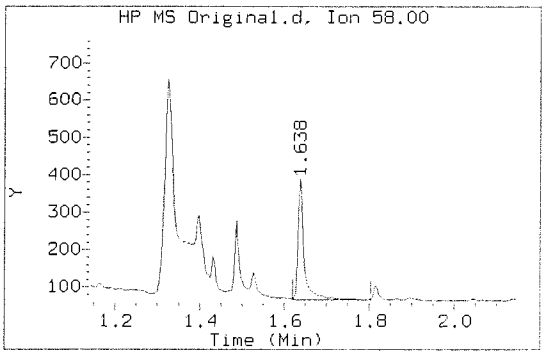
AFTER
MASS
236
AREA
0
HEIGHT
0
07-Sep-2022
13:09
ALSHS
Ser



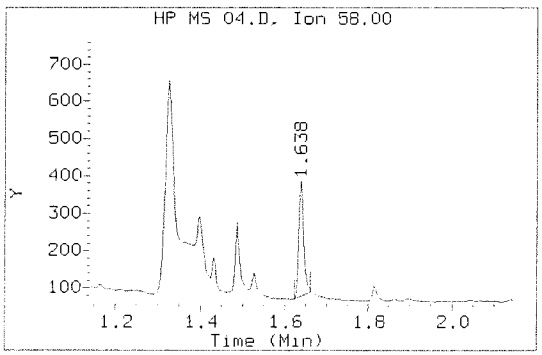
1,4-Dioxane ()

Reason Code:

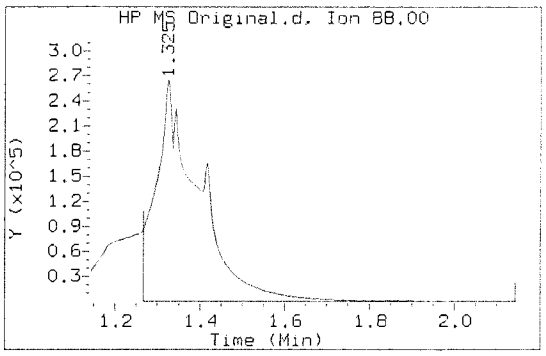
BEFORE
MASS
58
AREA
329
HEIGHT
323
29-Aug-2022
11:19
ALSHS
Server



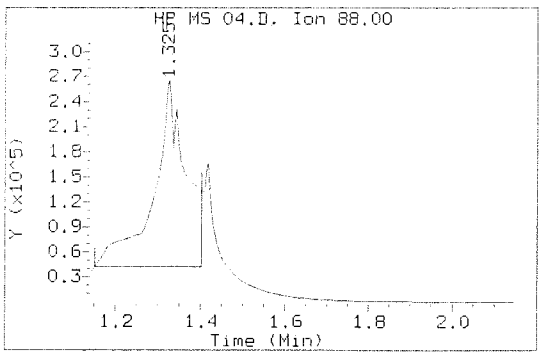
AFTER
MASS
58
AREA
246
HEIGHT
311
07-Sep-2022
13:09
ALSHS
Ser



BEFORE
MASS
88
AREA
1869118
HEIGHT
265239
29-Aug-2022
11:19
ALSHS
Server



AFTER
MASS
88
AREA
1172411
HEIGHT
223393
07-Sep-2022
13:09
ALSHS
Ser

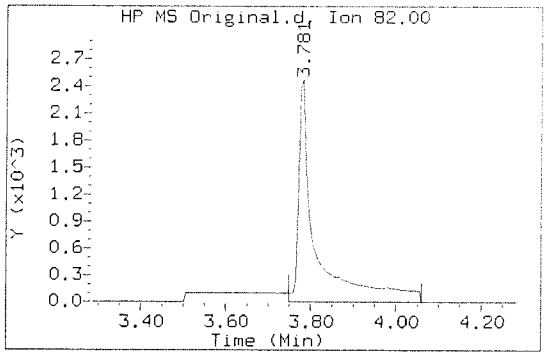


Data File : \\NAHSTWS005\Target\chem\SV6.i\220829.b\04.D
Inj Date : 29-AUG-2022 11:04
InstruID : SV6.i
LabSampID : 1 4-DIOX-CCV

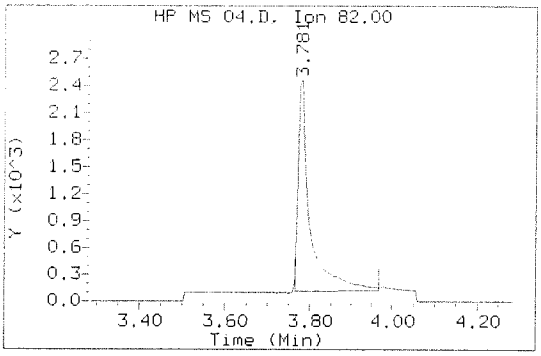
Nitrobenzene-d5 (4165-60-0)

Reason Code:

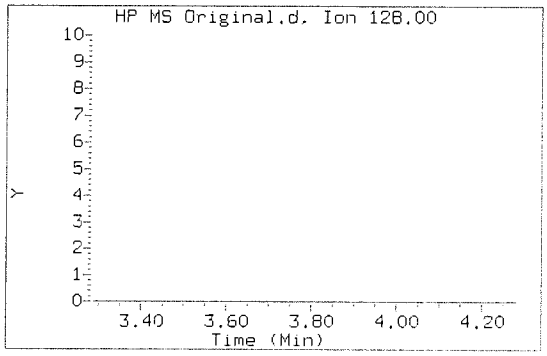
BEFORE
MASS
82
AREA
6916
HEIGHT
2472
29-Aug-2022
11:19
ALSHS
Server



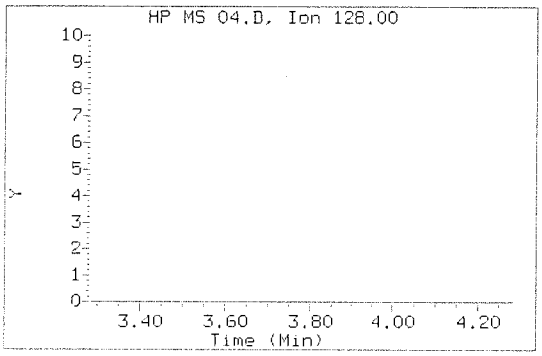
AFTER
MASS
82
AREA
4652
HEIGHT
2358
07-Sep-2022
13:09
ALSHS
Ser



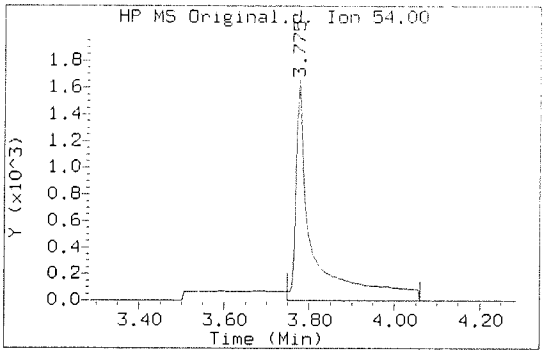
BEFORE
MASS
128
AREA
0
HEIGHT
0
29-Aug-2022
11:19
ALSHS
Server



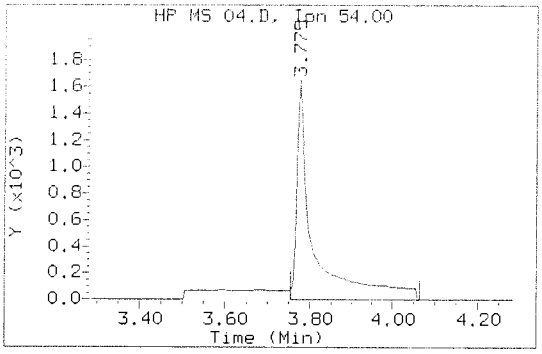
AFTER
MASS
128
AREA
0
HEIGHT
0
07-Sep-2022
13:09
ALSHS
Ser



BEFORE
MASS
54
AREA
4515
HEIGHT
1658
29-Aug-2022
11:19
ALSHS
Server



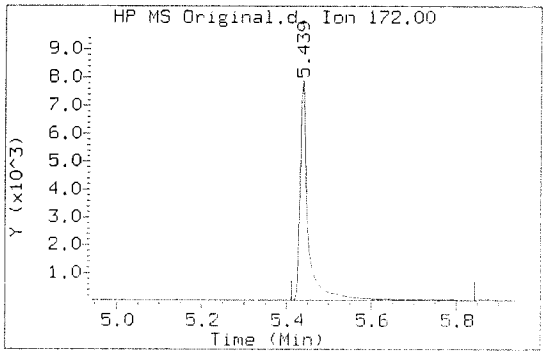
AFTER
MASS
54
AREA
4469
HEIGHT
1658
07-Sep-2022
13:09
ALSHS
Ser



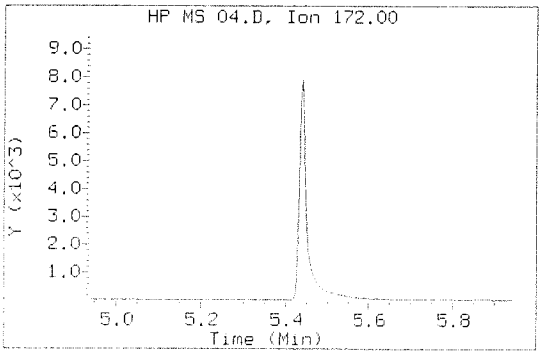
2-Fluorobiphenyl (321-60-8)

Reason Code:

BEFORE
MASS
172
AREA
10700
HEIGHT
7867
29-Aug-2022
11:19
ALSHS
Server



AFTER
MASS
172
AREA
11751
HEIGHT
7893
07-Sep-2022
13:09
ALSHS
Ser



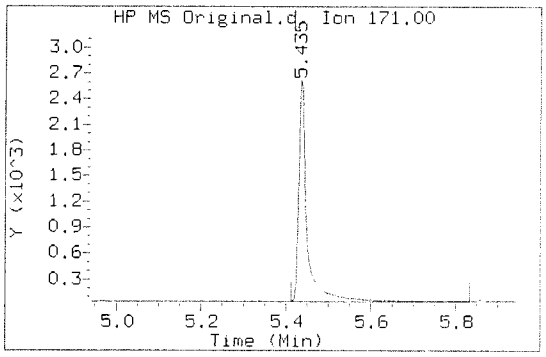
Data File : \\NAHSTWS005\Target\chem\SV6.i\220829.b\04.D
Inj Date : 29-AUG-2022 11:04
InstruID : SV6.i
LabSampID : 1 4-DIOX-CCV

2-Fluorobiphenyl (321-60-8)

Reason Code:

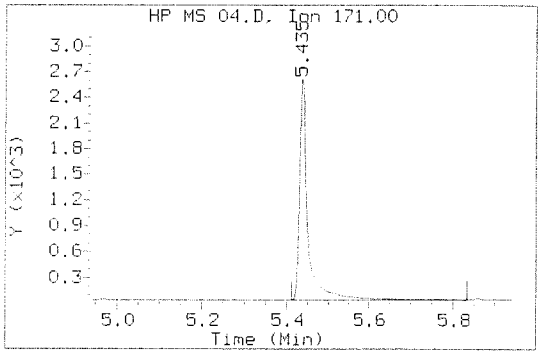
BEFORE

MASS
171
AREA
3554
HEIGHT
2572
29-Aug-2022
11:19
ALSHS
Server



AFTER

MASS
171
AREA
3554
HEIGHT
2572
07-Sep-2022
13:07
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\SV6.i\220829.b\17.D Page 1
Report Date: 30-Aug-2022 16:12

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220829.b\17.D
Lab Smp Id: HS22080927-05
Inj Date : 29-AUG-2022 15:16
Operator : LG Inst ID: SV6.i
Smp Info : HS22080927-05X50
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\220829.b\DXSIM.m
Meth Date : 29-Aug-2022 17:54 jjuarez Quant Type: ISTD
Cal Date : 10-MAR-2022 12:56 Cal File: 009.D
Als bottle: 17
Dil Factor: 50.00000
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	50.000	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	3.319	3.324	(1.000)	4222	0.10000	(aM)
* 45 Naphthalene-d8	136	4.421	4.421	(1.000)	9391	0.10000	(M)
* 86 Acenaphthene-d10	164	6.086	6.081	(1.000)	4792	0.10000	(M)
* 126 Phenanthrene-d10	188	7.520	7.520	(1.000)	11351	0.10000	(M)
* 182 Chrysene-d12	240	10.258	10.264	(1.000)	7420	0.10000	(M)
* 198 Perylene-d12	264	12.229	12.229	(1.000)	3047	0.10000	(M)
1 1,4-Dioxane	58	1.612	1.645	(0.486)	351	0.20251	10.12(Q)

QC Flag Legend

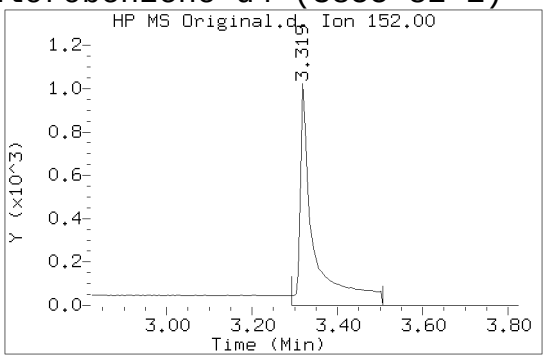
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File : \\NAHSTWS005\Target\chem\SV6.i\220829.b\17.D
Inj Date : 29-AUG-2022 15:16
InstruID : SV6.i
LabSampID : HS22080927-05

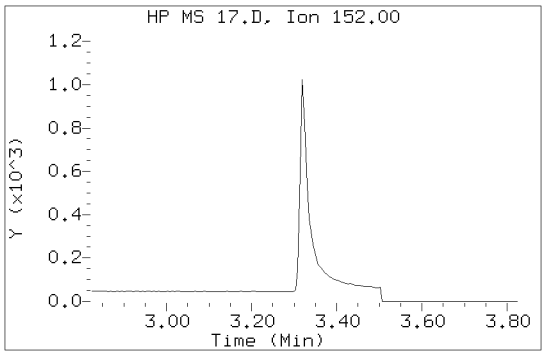
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

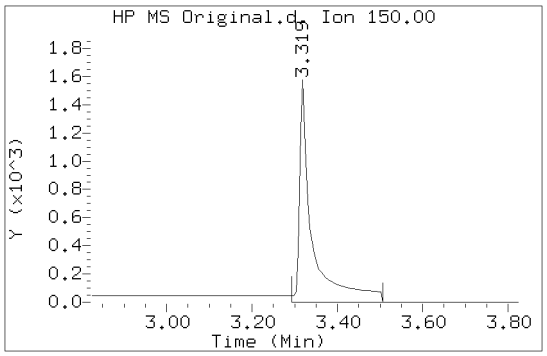
BEFORE
MASS
152
AREA
2238
HEIGHT
1023
29-Aug-2022
15:32
ALSHS
Server



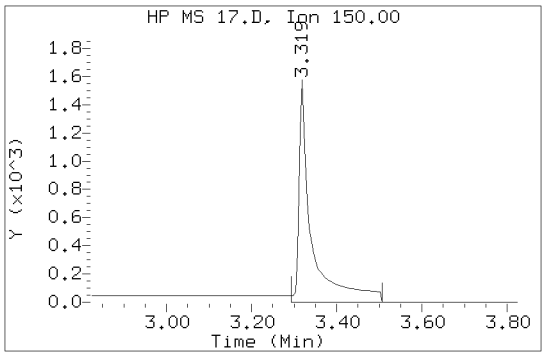
AFTER
MASS
152
AREA
4222
HEIGHT
1023
30-Aug-2022
16:12



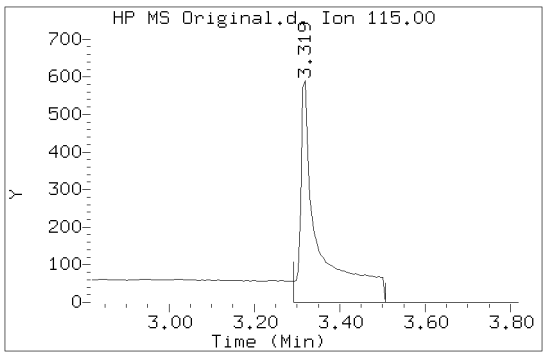
BEFORE
MASS
150
AREA
3198
HEIGHT
1576
29-Aug-2022
15:32
ALSHS
Server



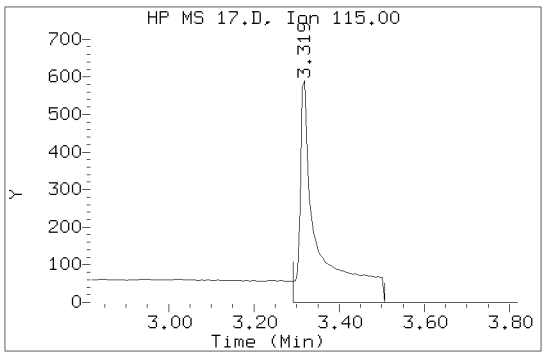
AFTER
MASS
150
AREA
3198
HEIGHT
1576
30-Aug-2022
16:12



BEFORE
MASS
115
AREA
1704
HEIGHT
590
29-Aug-2022
15:32
ALSHS
Server



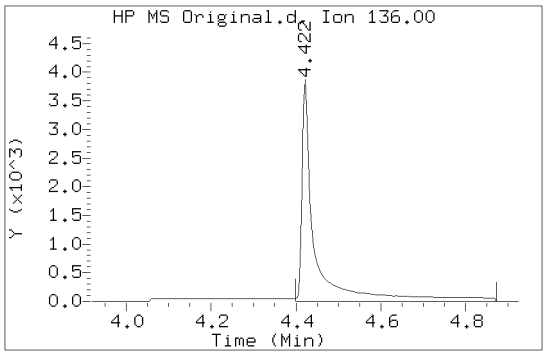
AFTER
MASS
115
AREA
1704
HEIGHT
590
30-Aug-2022
16:12



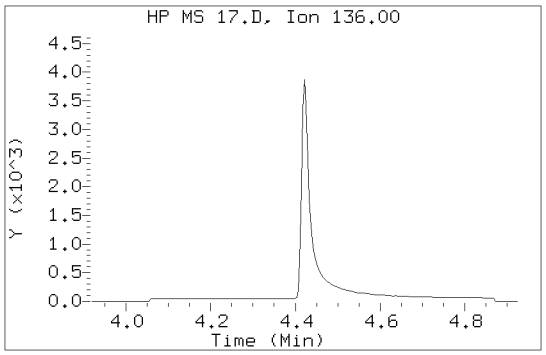
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
8166
HEIGHT
3869
29-Aug-2022
15:32
ALSHS
Server



AFTER
MASS
136
AREA
9391
HEIGHT
3869
30-Aug-2022
16:12

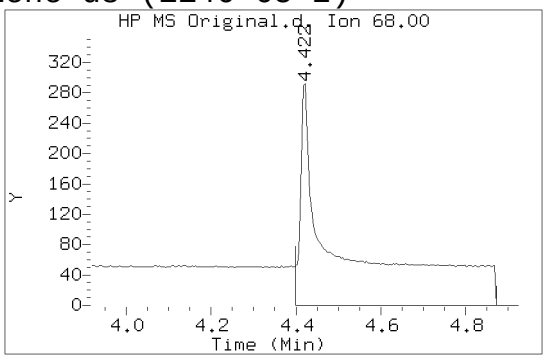


Data File : \\NAHSTWS005\Target\chem\SV6.i\220829.b\17.D
Inj Date : 29-AUG-2022 15:16
InstruID : SV6.i
LabSampID : HS22080927-05

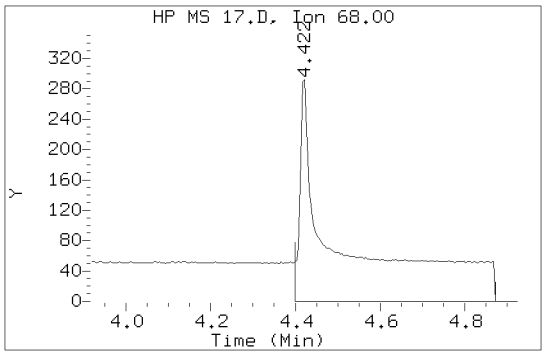
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
1891
HEIGHT
292
29-Aug-2022
15:32
ALSHS
Server



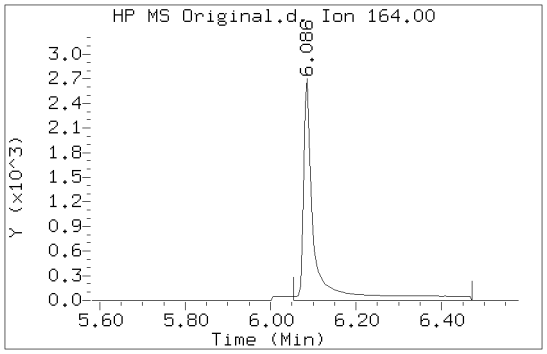
AFTER
MASS
68
AREA
1891
HEIGHT
292
30-Aug-2022
16:12



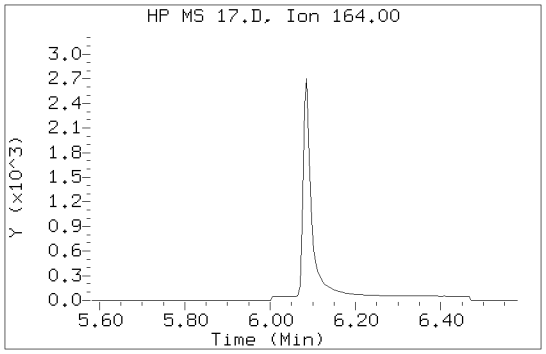
Acenaphthene-d10 (15067-26-2)

Reason Code:

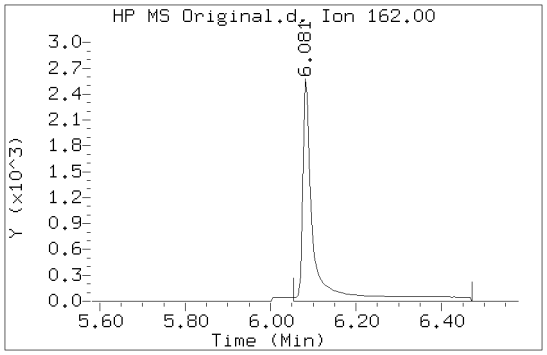
BEFORE
MASS
164
AREA
4903
HEIGHT
2702
29-Aug-2022
15:32
ALSHS
Server



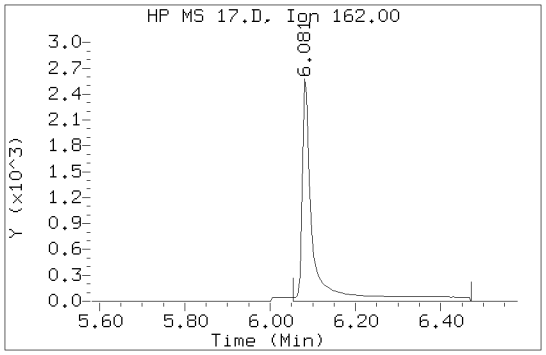
AFTER
MASS
164
AREA
4792
HEIGHT
2702
30-Aug-2022
16:12



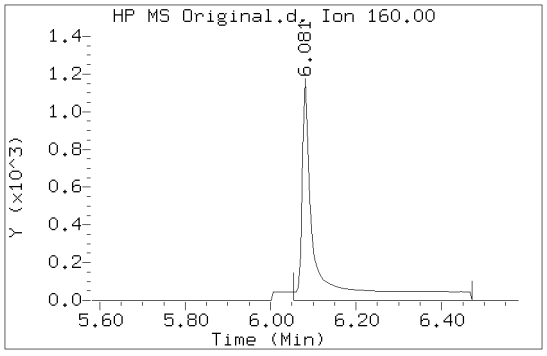
BEFORE
MASS
162
AREA
4761
HEIGHT
2576
29-Aug-2022
15:32
ALSHS
Server



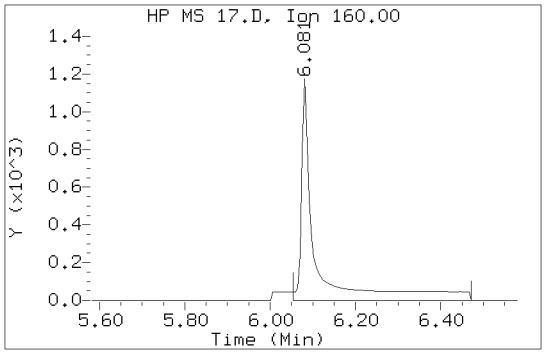
AFTER
MASS
162
AREA
4761
HEIGHT
2576
30-Aug-2022
16:12



BEFORE
MASS
160
AREA
2669
HEIGHT
1175
29-Aug-2022
15:32
ALSHS
Server



AFTER
MASS
160
AREA
2669
HEIGHT
1175
30-Aug-2022
16:12



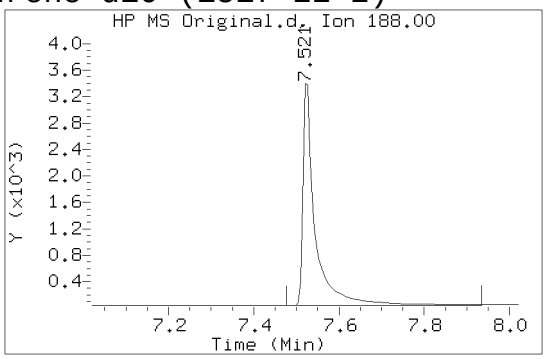
Data File : \\NAHSTWS005\Target\chem\SV6.i\220829.b\17.D
Inj Date : 29-AUG-2022 15:16
InstruID : SV6.i
LabSampID : HS22080927-05

Phenanthrene-d10 (1517-22-2)

Reason Code:

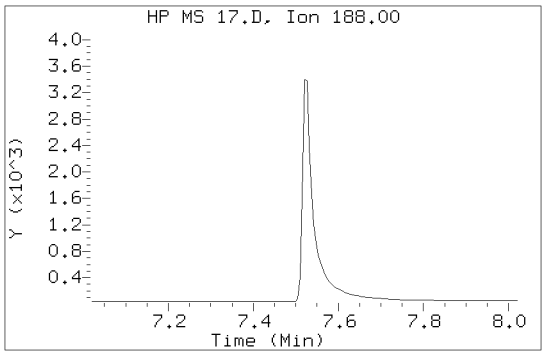
BEFORE

MASS
188
AREA
6614
HEIGHT
3351
29-Aug-2022
15:32
ALSHS
Server



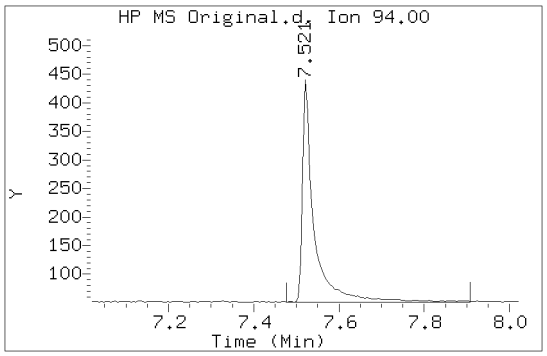
AFTER

MASS
188
AREA
11351
HEIGHT
3395
30-Aug-2022
16:12



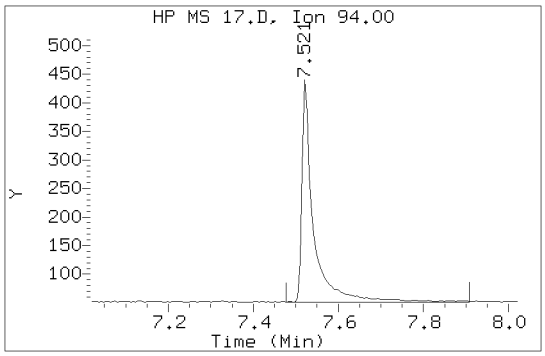
BEFORE

MASS
94
AREA
733
HEIGHT
389
29-Aug-2022
15:32
ALSHS
Server



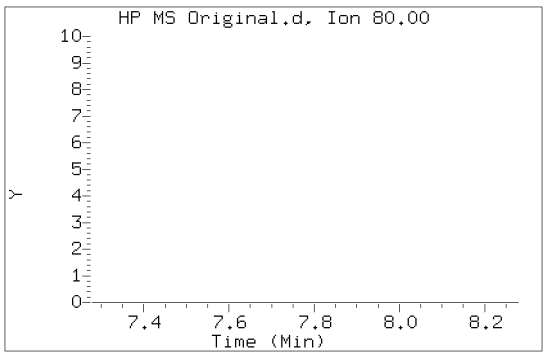
AFTER

MASS
94
AREA
733
HEIGHT
389
30-Aug-2022
16:12



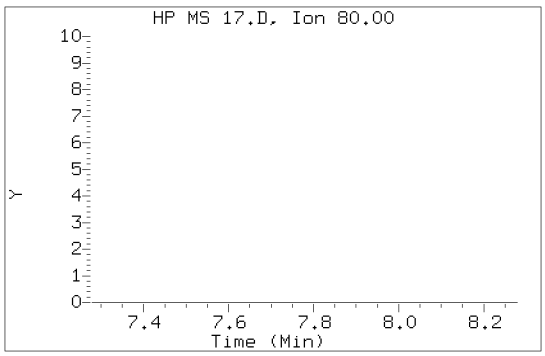
BEFORE

MASS
80
AREA
0
HEIGHT
0
29-Aug-2022
15:32
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
30-Aug-2022
16:12

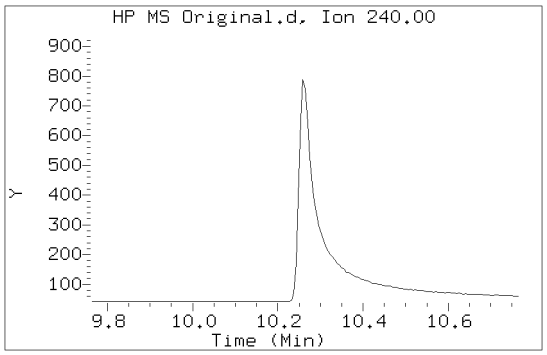


Chrysene-d12 (1719-03-5)

Reason Code:

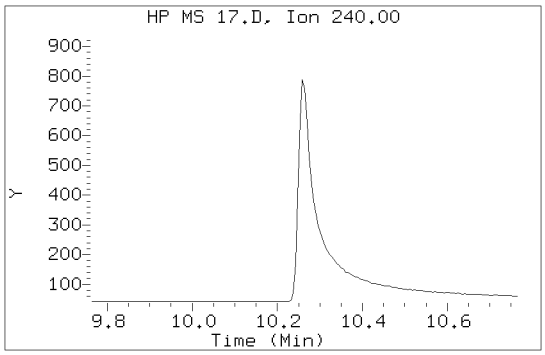
BEFORE

MASS
240
AREA
0
HEIGHT
0
29-Aug-2022
15:32
ALSHS
Server



AFTER

MASS
240
AREA
7420
HEIGHT
788
30-Aug-2022
16:12

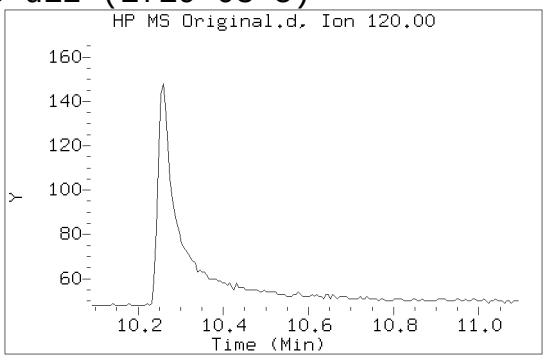


Data File : \\NAHSTWS005\Target\chem\SV6.i\220829.b\17.D
Inj Date : 29-AUG-2022 15:16
InstruID : SV6.i
LabSampID : HS22080927-05

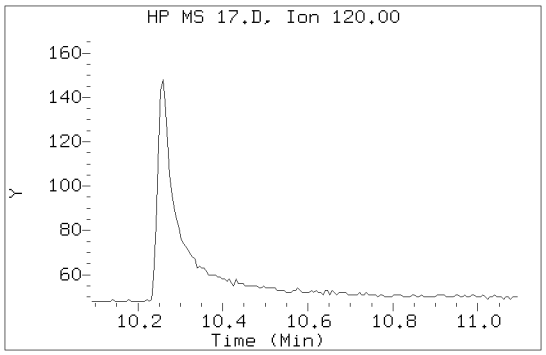
Chrysene-d12 (1719-03-5)

Reason Code:

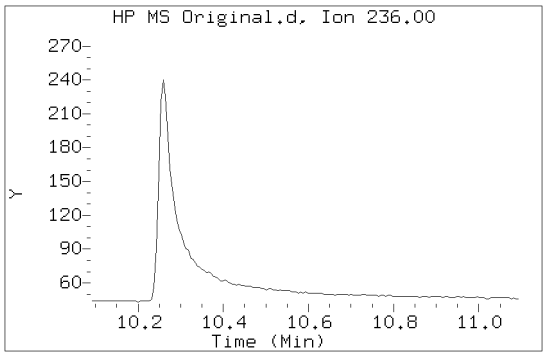
BEFORE
MASS
120
AREA
0
HEIGHT
0
29-Aug-2022
15:32
ALSHS
Server



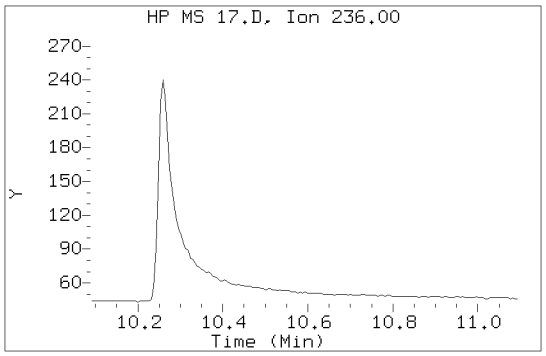
AFTER
MASS
120
AREA
0
HEIGHT
0
30-Aug-2022
16:12



BEFORE
MASS
236
AREA
0
HEIGHT
0
29-Aug-2022
15:32
ALSHS
Server



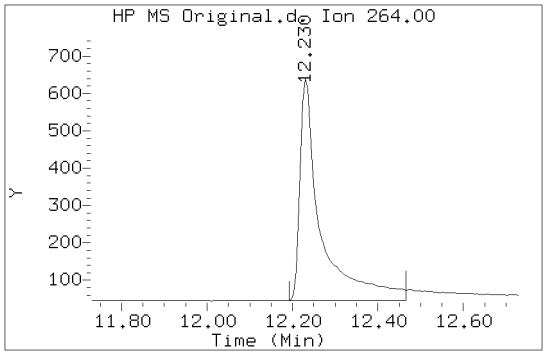
AFTER
MASS
236
AREA
0
HEIGHT
0
30-Aug-2022
16:12



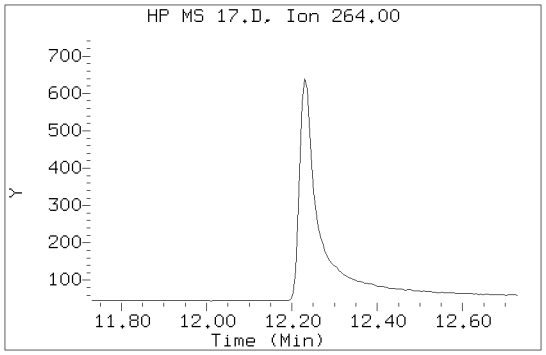
Perylene-d12 (1520-96-3)

Reason Code:

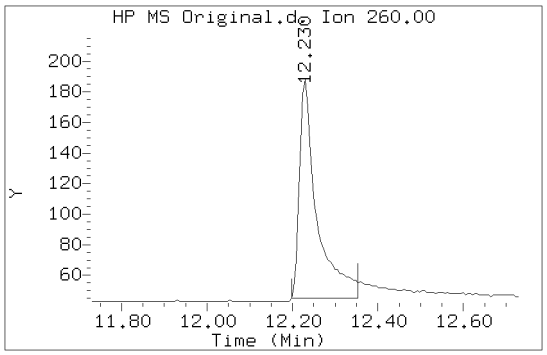
BEFORE
MASS
264
AREA
2017
HEIGHT
593
29-Aug-2022
15:32
ALSHS
Server



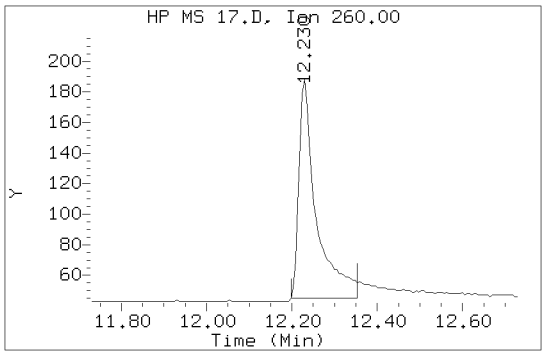
AFTER
MASS
264
AREA
3047
HEIGHT
600
30-Aug-2022
16:12



BEFORE
MASS
260
AREA
405
HEIGHT
143
29-Aug-2022
15:32
ALSHS
Server



AFTER
MASS
260
AREA
405
HEIGHT
143
30-Aug-2022
16:12



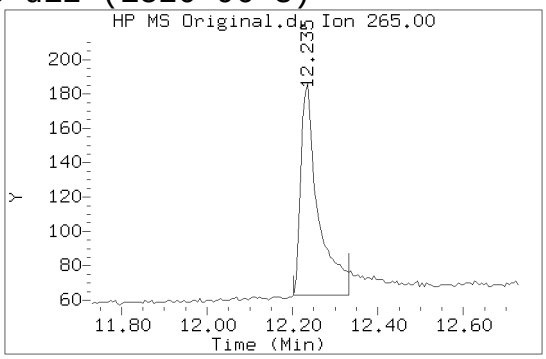
Data File : \\NAHSTWS005\Target\chem\SV6.i\220829.b\17.D
Inj Date : 29-AUG-2022 15:16
InstruID : SV6.i
LabSampID : HS22080927-05

Perylene-d12 (1520-96-3)

Reason Code:

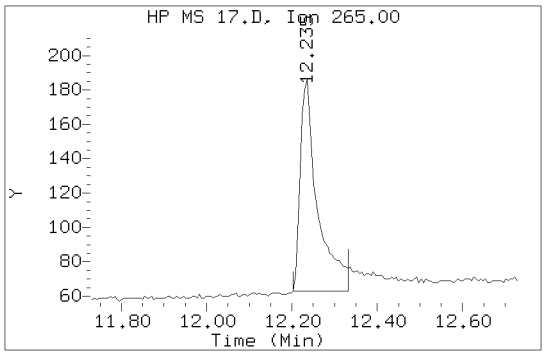
BEFORE

MASS
265
AREA
346
HEIGHT
123
29-Aug-2022
15:32
ALSHS
Server



AFTER

MASS
265
AREA
346
HEIGHT
123
30-Aug-2022
16:12



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220829.b\25.D
Lab Smp Id: 1 4-DIOX-CCV Client Smp ID: 1 4-DIOX-CCV
Inj Date : 29-AUG-2022 17:39
Operator : LG Inst ID: SV6.i
Smp Info : 1 4-DIOX-0.08;1 4-DIOX-0.08;2
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220829.b\DXSIM.m
Meth Date : 07-Sep-2022 14:22 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 12:56 Cal File: 009.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

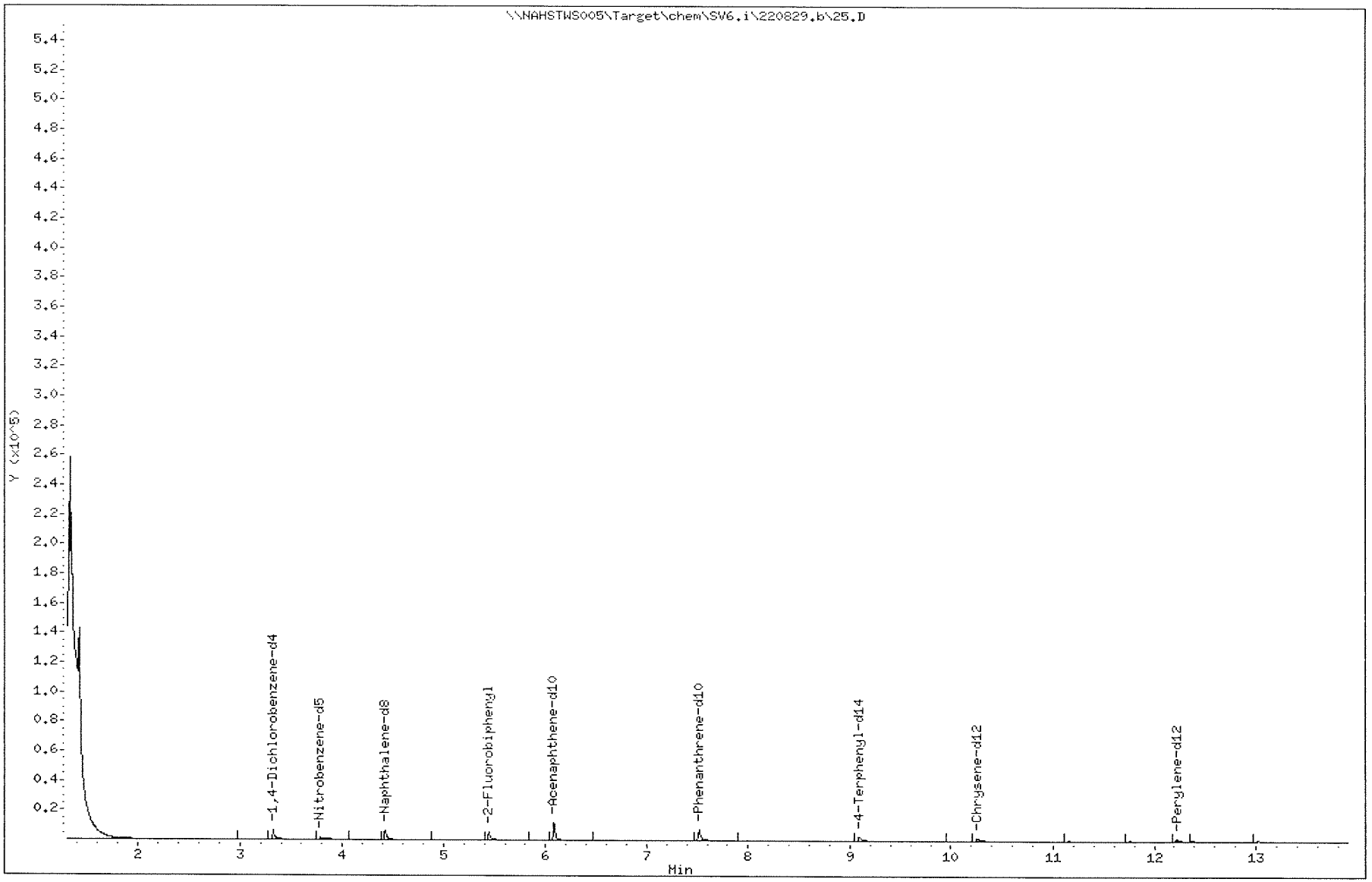
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)	
* 20 1,4-Dichlorobenzene-d4	152	3.324	3.324	(1.000)	5983	0.10000		(aM)
* 45 Naphthalene-d8	136	4.421	4.421	(1.000)	14316	0.10000		
$ 33 Nitrobenzene-d5	82	3.786	3.786	(0.856)	3039	0.08000	0.06368	(QM)
* 86 Acenaphthene-d10	164	6.081	6.081	(1.000)	9019	0.10000		(Q)
$ 69 2-Fluorobiphenyl	172	5.442	5.442	(0.895)	8695	0.08000	0.06194	
* 126 Phenanthrene-d10	188	7.520	7.520	(1.000)	12858	0.10000		
* 182 Chrysene-d12	240	10.259	10.259	(1.000)	6246	0.10000		(M)
$ 158 4-Terphenyl-d14	244	9.091	9.091	(0.886)	7278	0.08000	0.06198	(M)
* 198 Perylene-d12	264	12.229	12.229	(1.000)	3541	0.10000		
1 1,4-Dioxane	58	1.645	1.645	(0.495)	211	0.08000	0.08590	(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.

Data File: \\NAHSTWS005\Target\chem\SV6.i\220829.b\25.D
Date : 29-AUG-2022 17:39
Client ID: 1 4-DIOX-CCV
Sample Info: 1 4-DIOX-0.08;1 4-DIOX-0.08;2
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28

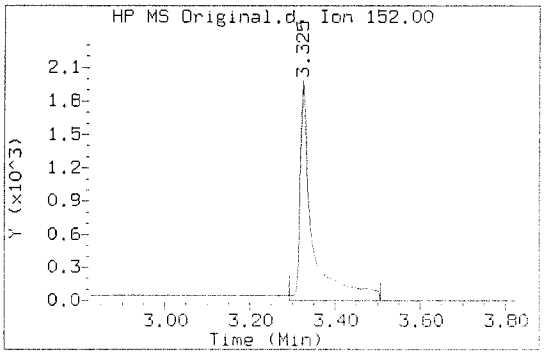


Data File : \\NAHSTWS005\Target\chem\SV6.i\220829.b\25.D
Inj Date : 29-AUG-2022 17:39
InstruID : SV6.i
LabSampID : 1 4-DIOX-CCV

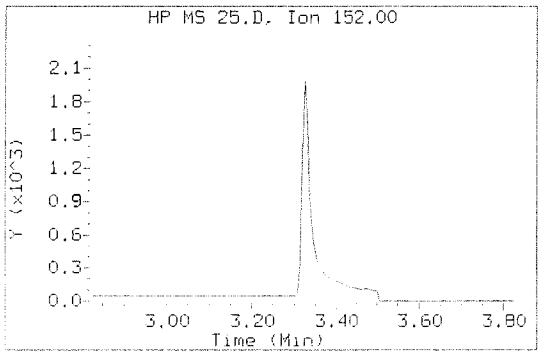
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

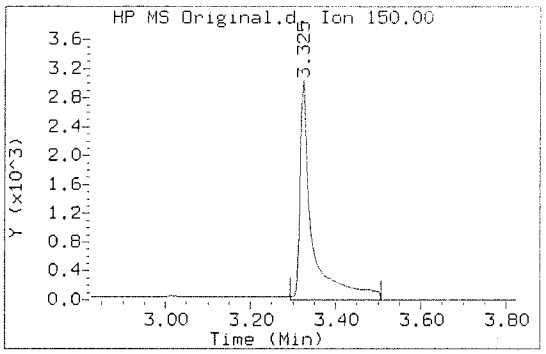
BEFORE
MASS 152
AREA 4017
HEIGHT 1988
29-Aug-2022 17:54
ALSHS Server



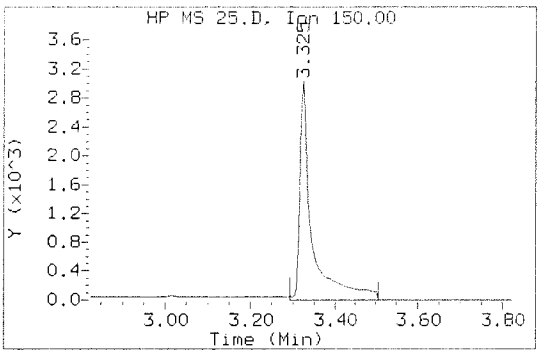
AFTER
MASS 152
AREA 5983
HEIGHT 1988
07-Sep-2022 14:22
ALSHS Ser



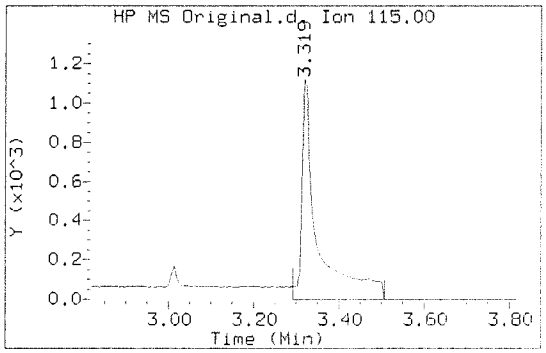
BEFORE
MASS 150
AREA 6017
HEIGHT 3038
29-Aug-2022 17:54
ALSHS Server



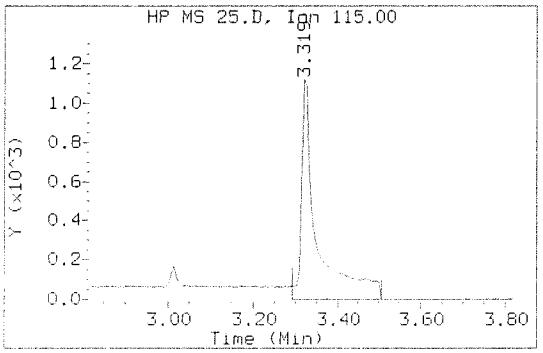
AFTER
MASS 150
AREA 6017
HEIGHT 3036
07-Sep-2022 14:22
ALSHS Ser



BEFORE
MASS 115
AREA 2816
HEIGHT 1119
29-Aug-2022 17:54
ALSHS Server



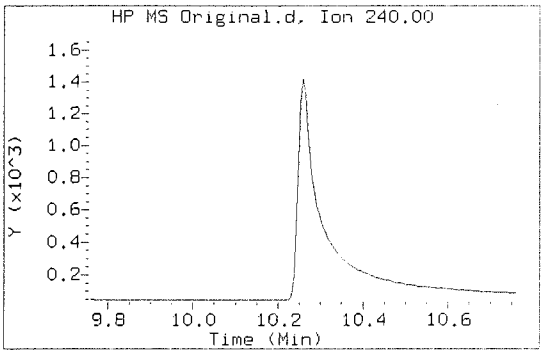
AFTER
MASS 115
AREA 2816
HEIGHT 1119
07-Sep-2022 14:22
ALSHS Ser



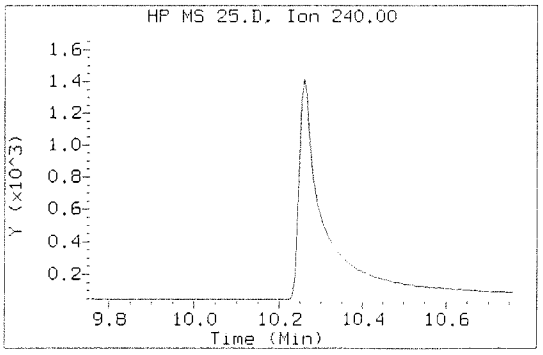
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS 240
AREA 0
HEIGHT 0
29-Aug-2022 17:54
ALSHS Server



AFTER
MASS 240
AREA 6246
HEIGHT 1369
07-Sep-2022 14:22
ALSHS Ser

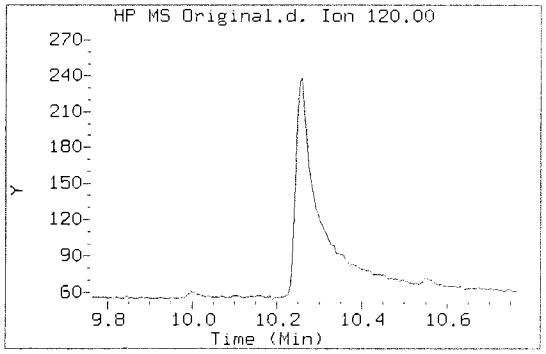


Data File : \\NAHSTWS005\Target\chem\SV6.i\220829.b\25.D
Inj Date : 29-AUG-2022 17:39
InstruID : SV6.i
LabSampID : 1 4-DIOX-CCV

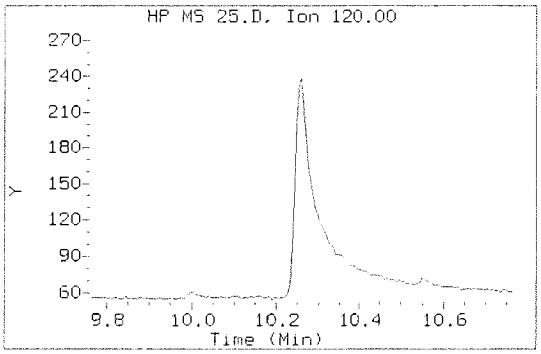
Chrysene-d12 (1719-03-5)

Reason Code:

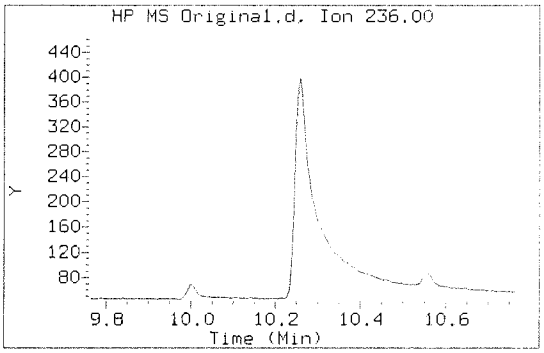
BEFORE
MASS
120
AREA
0
HEIGHT
0
29-Aug-2022
17:54
ALSHS
Server



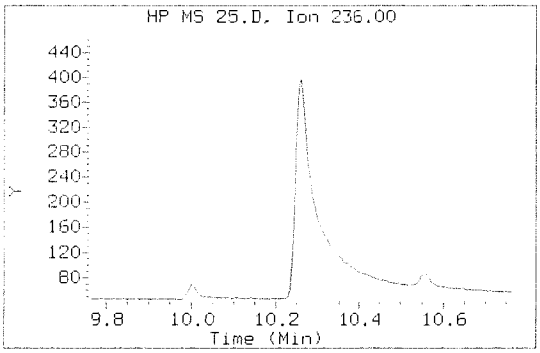
AFTER
MASS
120
AREA
0
HEIGHT
0
07-Sep-2022
14:22
ALSHS
Ser



BEFORE
MASS
236
AREA
0
HEIGHT
0
29-Aug-2022
17:54
ALSHS
Server



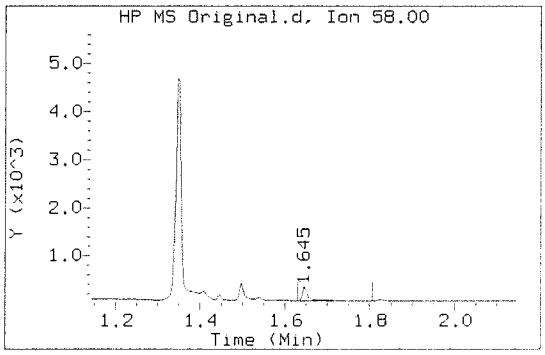
AFTER
MASS
236
AREA
0
HEIGHT
0
07-Sep-2022
14:22
ALSHS
Ser



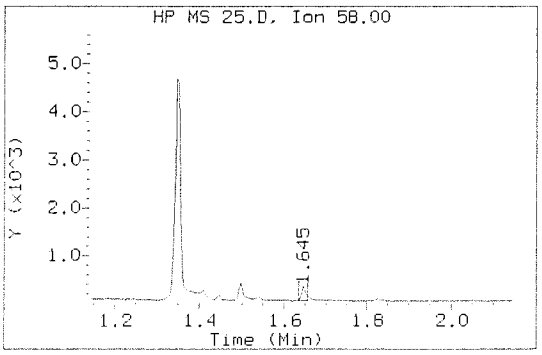
1,4-Dioxane ()

Reason Code:

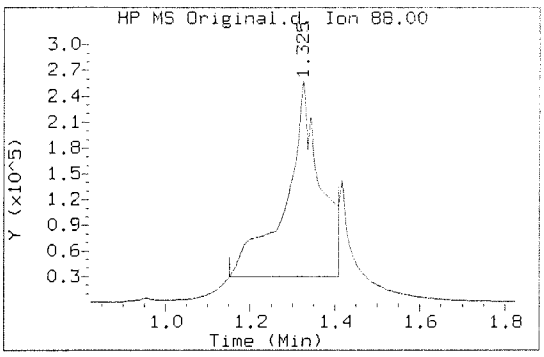
BEFORE
MASS
58
AREA
291
HEIGHT
312
29-Aug-2022
17:54
ALSHS
Server



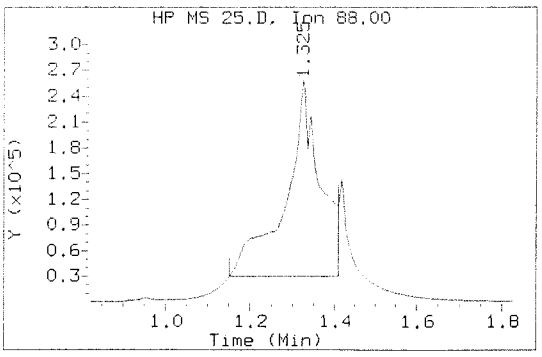
AFTER
MASS
58
AREA
211
HEIGHT
308
07-Sep-2022
14:22
ALSHS
Ser



BEFORE
MASS
88
AREA
1302961
HEIGHT
228032
29-Aug-2022
17:54
ALSHS
Server



AFTER
MASS
88
AREA
1302961
HEIGHT
228032
07-Sep-2022
14:22
ALSHS
Ser

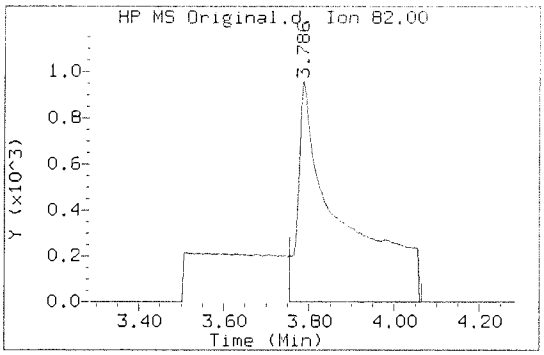


Data File : \\NAHSTWS005\Target\chem\SV6.i\220829.b\25.D
Inj Date : 29-AUG-2022 17:39
InstruID : SV6.i
LabSampID : 1 4-DIOX-CCV

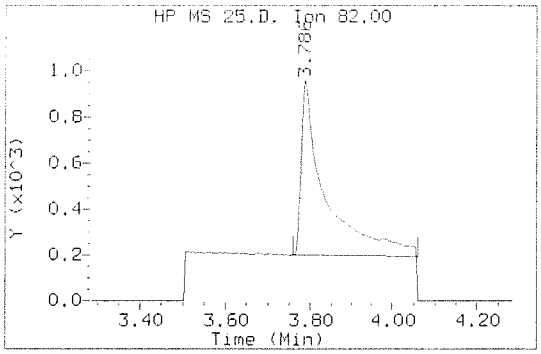
Nitrobenzene-d5 (4165-60-0)

Reason Code:

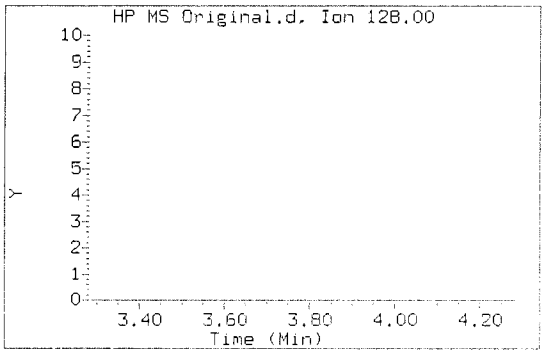
BEFORE
MASS
82
AREA
6674
HEIGHT
960
29-Aug-2022
17:54
ALSHS
Server



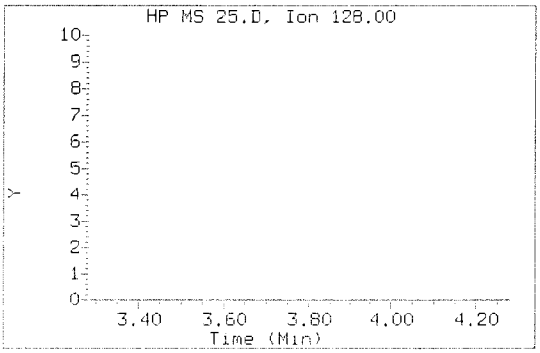
AFTER
MASS
82
AREA
3039
HEIGHT
760
07-Sep-2022
14:22
ALSHS
Ser



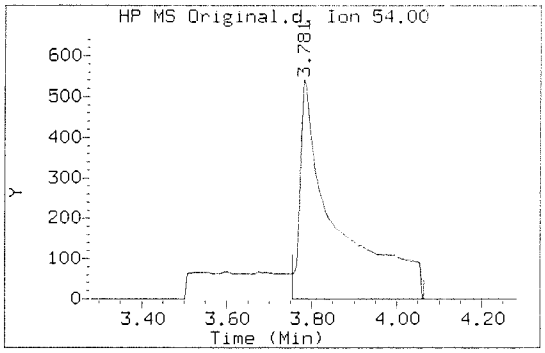
BEFORE
MASS
128
AREA
0
HEIGHT
0
29-Aug-2022
17:54
ALSHS
Server



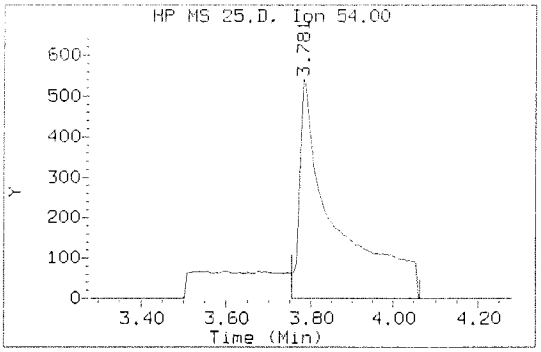
AFTER
MASS
128
AREA
0
HEIGHT
0
07-Sep-2022
14:22
ALSHS
Ser



BEFORE
MASS
54
AREA
3157
HEIGHT
542
29-Aug-2022
17:54
ALSHS
Server



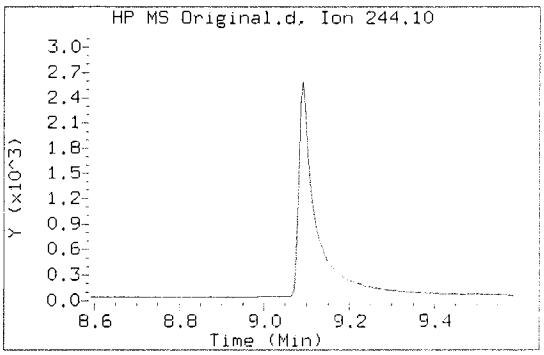
AFTER
MASS
54
AREA
3157
HEIGHT
542
07-Sep-2022
14:22
ALSHS
Ser



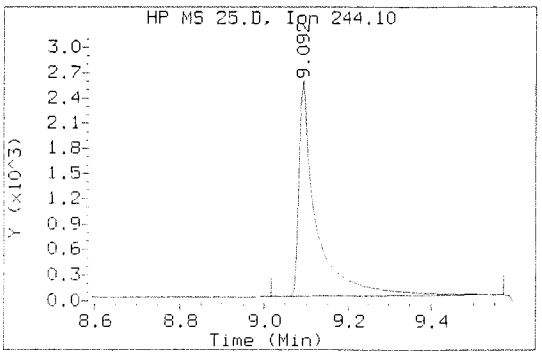
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
0
HEIGHT
0
29-Aug-2022
17:54
ALSHS
Server



AFTER
MASS
244.1
AREA
7278
HEIGHT
1551
07-Sep-2022
14:22
ALSHS
Ser



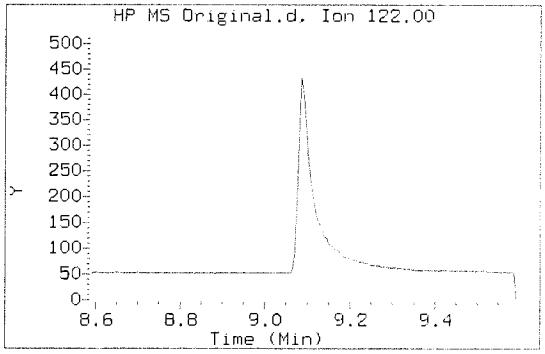
Data File : \\NAHSTWS005\Target\chem\SV6.i\220829.b\25.D
Inj Date : 29-AUG-2022 17:39
InstruID : SV6.i
LabSampID : 1 4-DIOX-CCV

4-Terphenyl-d14 (1718-51-0)

Reason Code:

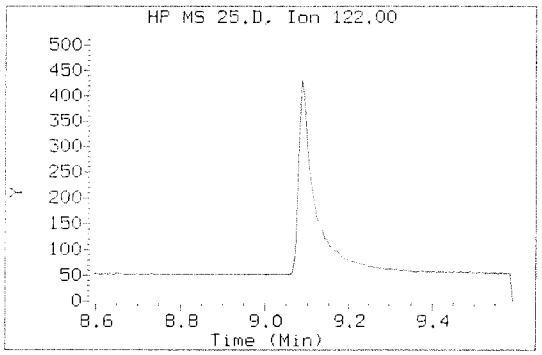
BEFORE

MASS
122
AREA
0
HEIGHT
0
29-Aug-2022
17:54
ALSHS
Server



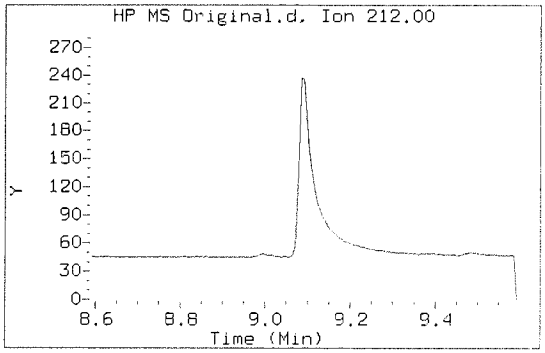
AFTER

MASS
122
AREA
0
HEIGHT
0
07-Sep-2022
14:22
ALSHS
Ser



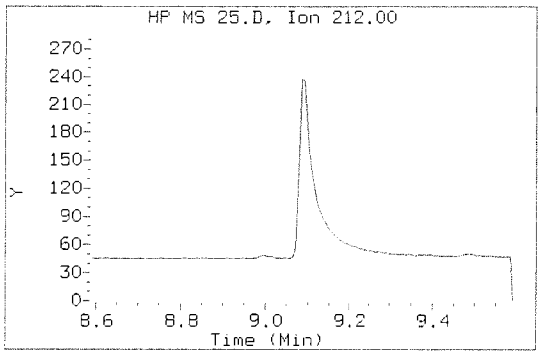
BEFORE

MASS
212
AREA
0
HEIGHT
0
29-Aug-2022
17:54
ALSHS
Server



AFTER

MASS
212
AREA
0
HEIGHT
0
07-Sep-2022
14:22
ALSHS
Ser



HS22080927 - ME - ICP_W_DOD

ALS WO# HS22080927

ALS Houston, US

Date: 06-Sep-22

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080927
Start Date: 30-Aug-2022 End Date: 31-Aug-2022

Run ID:ICPMS07_416140
Instrument:ICPMS07
Method:

Sample No.	D/F	Time	FileID	Analytes
ICPMS07_416140_Tune	1	30-Aug-2022 00:00	ICPMS07_416140_Tune_1	
CAL BLK	1	30-Aug-2022 12:27	015CALB.d_6826386	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	30-Aug-2022 12:30	016CALS.d_6826387	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	30-Aug-2022 12:32	017CALS.d_6826388	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
10/50/100	1	30-Aug-2022 12:34	018CALS.d_6826389	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	30-Aug-2022 12:36	019CALS.d_6826390	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	30-Aug-2022 12:38	020CALS.d_6826391	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICV	1	30-Aug-2022 12:49	022_ICV.d_6826393	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLICV2	1	30-Aug-2022 12:51	023LCV2.d_6826394	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLICV5	1	30-Aug-2022 12:53	024LCV5.d_6826395	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICB	1	30-Aug-2022 12:55	025_ICB.d_6826396	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSA	1	30-Aug-2022 12:57	026ICSA.d_6826397	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSAB	1	30-Aug-2022 12:59	027ICSB.d_6826398	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	30-Aug-2022 19:54	159CALB.d_6827332	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	30-Aug-2022 19:56	160CALS.d_6827333	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	30-Aug-2022 19:57	161CALS.d_6827334	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
10/50/100	1	30-Aug-2022 19:59	162CALS.d_6827335	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	30-Aug-2022 20:01	163CALS.d_6827336	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	30-Aug-2022 20:03	164CALS.d_6827337	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICCV 1	1	30-Aug-2022 20:07	166_ICV.d_6827339	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLCCV2	1	30-Aug-2022 20:09	167LCV2.d_6827340	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLCCV5	1	30-Aug-2022 20:11	168LCV5.d_6827341	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	30-Aug-2022 20:13	169_ICB.d_6827342	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	30-Aug-2022 20:52	190_CCV.d_6827357	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	30-Aug-2022 20:54	191_CCB.d_6827358	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
MBLK-182759	1	30-Aug-2022 20:56	192SMPL.d_6827359	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LCS-182759	1	30-Aug-2022 20:57	193SMPL.d_6827360	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
AWD3_081622	1	30-Aug-2022 20:59	194SMPL.d_6827361	AG AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
AWD3_081622MS	1	30-Aug-2022 21:03	196SMPL.d_6827362	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
AWD3_081622MSD	1	30-Aug-2022 21:07	198SMPL.d_6827364	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
AWD3_081622PDS	1	30-Aug-2022 21:09	199SMPL.d_6827365	AG AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN

ALS Houston, US Date: 06-Sep-22

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080927
Start Date: 30-Aug-2022 End Date: 31-Aug-2022

Run ID:ICPMS07_416140
Instrument:ICPMS07
Method:

Sample No.	D/F	Time	FileID	Analytes
AWD3_081622SD	5	30-Aug-2022 21:11	200SMPL.d_6827366	AG AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 3	1	30-Aug-2022 21:12	201_CCV.d_6827367	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	30-Aug-2022 21:14	202_CCB.d_6827368	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
AWD3_081622_a	1	30-Aug-2022 21:16	203SMPL.d_6827369	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
102_081622	1	30-Aug-2022 21:18	204SMPL.d_6827370	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
102_081622_a	1	30-Aug-2022 21:20	205SMPL.d_6827371	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
18WW03_081622	1	30-Aug-2022 21:22	206SMPL.d_6827372	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CO3_081622	1	30-Aug-2022 21:24	207SMPL.d_6827373	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
18WW18_081622	1	30-Aug-2022 21:26	208SMPL.d_6827374	AG AL AS BA BE CA CD CO CR CU FE K MG NA NI PB SB SE TL V ZN
CCV 4	1	30-Aug-2022 21:28	209_CCV.d_6827375	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	30-Aug-2022 21:29	210_CCB.d_6827376	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	30-Aug-2022 21:46	219_CCV.d_6827385	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	30-Aug-2022 21:48	220_CCB.d_6827386	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	30-Aug-2022 23:13	256_CCV.d_6827882	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	30-Aug-2022 23:14	257_CCB.d_6827883	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	30-Aug-2022 23:20	260_CCV.d_6827886	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	30-Aug-2022 23:22	261_CCB.d_6827887	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	30-Aug-2022 23:33	267_CCV.d_6827893	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	30-Aug-2022 23:35	268_CCB.d_6827894	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	30-Aug-2022 23:44	273_CCV.d_6827899	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	30-Aug-2022 23:46	274_CCB.d_6827900	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	30-Aug-2022 23:57	280CALB.d_6827913	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	30-Aug-2022 23:59	281CALS.d_6827914	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	31-Aug-2022 00:01	282CALS.d_6827915	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
10/50/100	1	31-Aug-2022 00:03	283CALS.d_6827916	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	31-Aug-2022 00:05	284CALS.d_6827917	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	31-Aug-2022 00:07	285CALS.d_6827918	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICCV 10	1	31-Aug-2022 00:11	287_ICV.d_6827920	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLCCV2	1	31-Aug-2022 00:12	288LCV2.d_6827921	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLCCV5	1	31-Aug-2022 00:14	289LCV5.d_6827922	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICCB 10	1	31-Aug-2022 00:16	290_ICB.d_6827923	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: 06-Sep-22

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080927
Start Date: 30-Aug-2022 End Date: 31-Aug-2022

Run ID:ICPMS07_416140
Instrument:ICPMS07
Method:

Sample No.	D/F	Time	FileID	Analytes
CCV 11	1	31-Aug-2022 00:20	292_CCV.d_6827925	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	31-Aug-2022 00:22	293_CCB.d_6827926	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	31-Aug-2022 00:31	298_CCV.d_6827931	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	31-Aug-2022 00:33	299_CCB.d_6827932	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	31-Aug-2022 00:48	307_CCV.d_6827940	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	31-Aug-2022 00:50	308_CCB.d_6827941	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 14	1	31-Aug-2022 01:05	316_CCV.d_6827949	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	31-Aug-2022 01:07	317_CCB.d_6827950	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLCCV2	1	31-Aug-2022 01:11	319LCV2.d_6827952	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLCCV5	1	31-Aug-2022 01:13	320LCV5.d_6827953	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSA	1	31-Aug-2022 01:14	321ICSA.d_6827954	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSAB	1	31-Aug-2022 01:16	322ICSB.d_6827955	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: 06-Sep-22

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080927
Start Date: 31-Aug-2022 End Date: 31-Aug-2022

Run ID:ICPMS07_416222
Instrument:ICPMS07
Method:

Sample No.	D/F	Time	FileID	Analytes
ICPMS07_416222_Tune	1	31-Aug-2022 00:00	ICPMS07_416222_Tune_1	
CAL BLK	1	31-Aug-2022 10:36	010CALB.d_6828512	AL MN
2/10/200	1	31-Aug-2022 10:38	011CALS.d_6828513	AL MN
5/25/500	1	31-Aug-2022 10:41	012CALS.d_6828514	AL MN
10/50/100	1	31-Aug-2022 10:43	013CALS.d_6828515	AL MN
100/500/10K	1	31-Aug-2022 10:45	014CALS.d_6828516	AL MN
200/1000/20K	1	31-Aug-2022 10:47	015CALS.d_6828517	AL MN
ICV	1	31-Aug-2022 10:51	016_ICV.d_6828518	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLICV2	1	31-Aug-2022 10:52	017LCV2.d_6828519	AL MN
LLICV5	1	31-Aug-2022 10:54	018LCV5.d_6828520	AL MN
ICB	1	31-Aug-2022 10:56	019_ICB.d_6828521	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSA	1	31-Aug-2022 11:02	020ICSA.d_6828522	AL MN
ICSAB	1	31-Aug-2022 11:04	021ICSB.d_6828523	AL MN
CCV 1	1	31-Aug-2022 11:42	035_CCV.d_6828559	AL MN
CCB 1	1	31-Aug-2022 11:44	036_CCB.d_6828560	AL MN
18WW18_081622	20	31-Aug-2022 12:03	040SMPL.d_6828561	MN
CCV 2	1	31-Aug-2022 12:16	047_CCV.d_6828568	AL MN
CCB 2	1	31-Aug-2022 12:18	048_CCB.d_6828569	AL MN
CCV 3	1	31-Aug-2022 12:43	059_CCV.d_6828782	AL MN
CCB 3	1	31-Aug-2022 12:45	060_CCB.d_6828783	AL MN
AWD3_081622	5	31-Aug-2022 12:47	061SMPL.d_6828784	AL
AWD3_081622SD	25	31-Aug-2022 12:49	062SMPL.d_6828785	AL
AWD3_081622PDS	5	31-Aug-2022 12:51	063SMPL.d_6828786	AL
CCV 4	1	31-Aug-2022 13:06	071_CCV.d_6828788	AL MN
CCB 4	1	31-Aug-2022 13:08	072_CCB.d_6828789	AL MN
CCV 5	1	31-Aug-2022 13:29	083_CCV.d_6828906	AL MN
CCB 5	1	31-Aug-2022 13:30	084_CCB.d_6828907	AL MN
CCV 6	1	31-Aug-2022 13:51	095_CCV.d_6828918	AL MN
CCB 6	1	31-Aug-2022 13:53	096_CCB.d_6828919	AL MN
CCV 7	1	31-Aug-2022 16:18	154_CCV.d_6829373	AL MN
CCB 7	1	31-Aug-2022 16:19	155_CCB.d_6829374	AL MN
CCV 8	1	31-Aug-2022 16:48	166_CCV.d_6829380	AL MN
CCB 8	1	31-Aug-2022 16:50	167_CCB.d_6829381	AL MN
CCV 9	1	31-Aug-2022 17:43	189_CCV.d_6829558	AL MN
CCB 9	1	31-Aug-2022 17:45	190_CCB.d_6829559	AL MN
CCV 10	1	31-Aug-2022 18:08	201_CCV.d_6829570	AL MN
CCB 10	1	31-Aug-2022 18:10	202_CCB.d_6829571	AL MN
CCV 11	1	31-Aug-2022 18:31	213_CCV.d_6829582	AL MN
CCB 11	1	31-Aug-2022 18:32	214_CCB.d_6829583	AL MN
CCV 12	1	31-Aug-2022 18:54	225_CCV.d_6829594	AL MN
CCB 12	1	31-Aug-2022 18:56	226_CCB.d_6829595	AL MN

ALS Houston, US Date: 06-Sep-22

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080927

Run ID: ICPMS07_416140
Instrument: ICPMS07
Method: SW6020A

ICV Date: 30-Aug-2022 12:49 Seq: 6826393 ICV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	97.503	98	90-110	
Antimony	100	100.848	101	90-110	
Arsenic	100	104.803	105	90-110	
Barium	100	100.564	101	90-110	
Beryllium	100	100.061	100	90-110	
Cadmium	100	100.231	100	90-110	
Calcium	10000	9876.287	99	90-110	
Chromium	100	96.847	97	90-110	
Cobalt	100	104.443	104	90-110	
Copper	100	96.591	97	90-110	
Iron	10000	9866.559	99	90-110	
Lead	100	96.253	96	90-110	
Magnesium	10000	9822.235	98	90-110	
Manganese	100	100.978	101	90-110	
Nickel	100	101.103	101	90-110	
Potassium	10000	9868.575	99	90-110	
Selenium	100	102.971	103	90-110	
Silver	100	103.018	103	90-110	
Sodium	10000	9777.25	98	90-110	
Thallium	100	104.252	104	90-110	
Vanadium	100	101.058	101	90-110	
Zinc	100	101.704	102	90-110	

ICCV1 Date: 30-Aug-2022 20:07 Seq: 6827339 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	96.328	96	90-110	
Antimony	100	93.97	94	90-110	
Arsenic	100	101.667	102	90-110	
Barium	100	98.173	98	90-110	
Beryllium	100	99.108	99	90-110	
Cadmium	100	98.256	98	90-110	
Calcium	10000	9728.881	97	90-110	
Chromium	100	95.663	96	90-110	
Cobalt	100	99.825	100	90-110	
Copper	100	93.794	94	90-110	
Iron	10000	9732.134	97	90-110	
Lead	100	96.648	97	90-110	
Magnesium	10000	9803.295	98	90-110	
Manganese	100	99.082	99	90-110	
Nickel	100	99.508	100	90-110	
Potassium	10000	9688.155	97	90-110	
Selenium	100	99.68	100	90-110	
Silver	100	101.001	101	90-110	
Sodium	10000	9783.95	98	90-110	
Thallium	100	102.482	102	90-110	
Vanadium	100	98.608	99	90-110	
Zinc	100	98.389	98	90-110	

CCV2 Date: 30-Aug-2022 20:52 Seq: 6827357 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	99.15	99	90-110	
Antimony	100	95.486	96	90-110	
Arsenic	100	99.531	100	90-110	
Barium	100	99.368	99	90-110	
Beryllium	100	95.569	96	90-110	

ALS Houston, US

Date: 06-Sep-22

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080927

Run ID: ICPMS07_416140
Instrument: ICPMS07
Method: SW6020A

CCV2	Date: 30-Aug-2022 20:52		Seq: 6827357	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Cadmium	100	97.741	98	90-110	
Calcium	10000	9790.293	98	90-110	
Chromium	100	96.945	97	90-110	
Cobalt	100	102.858	103	90-110	
Copper	100	96.17	96	90-110	
Iron	10000	10075.153	101	90-110	
Lead	100	97.178	97	90-110	
Magnesium	10000	10055.277	101	90-110	
Manganese	100	99.13	99	90-110	
Nickel	100	100.473	100	90-110	
Potassium	10000	9956.439	100	90-110	
Selenium	100	97.662	98	90-110	
Silver	100	101.144	101	90-110	
Sodium	10000	10035.777	100	90-110	
Thallium	100	102.122	102	90-110	
Vanadium	100	100.211	100	90-110	
Zinc	100	100.819	101	90-110	

CCV3	Date: 30-Aug-2022 21:12		Seq: 6827367	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	96.728	97	90-110	
Antimony	100	95.508	96	90-110	
Arsenic	100	100.3	100	90-110	
Barium	100	98.317	98	90-110	
Beryllium	100	96.405	96	90-110	
Cadmium	100	98.306	98	90-110	
Calcium	10000	9779.842	98	90-110	
Chromium	100	96.782	97	90-110	
Cobalt	100	101.792	102	90-110	
Copper	100	95.315	95	90-110	
Iron	10000	10033.701	100	90-110	
Lead	100	96.934	97	90-110	
Magnesium	10000	9953.435	100	90-110	
Manganese	100	99.175	99	90-110	
Nickel	100	100.165	100	90-110	
Potassium	10000	9804.878	98	90-110	
Selenium	100	97.953	98	90-110	
Silver	100	99.973	100	90-110	
Sodium	10000	9945.567	100	90-110	
Thallium	100	101.272	101	90-110	
Vanadium	100	100.242	100	90-110	
Zinc	100	99.524	100	90-110	

CCV4	Date: 30-Aug-2022 21:28		Seq: 6827375	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	95.582	96	90-110	
Antimony	100	96.082	96	90-110	
Arsenic	100	99.896	100	90-110	
Barium	100	98.771	99	90-110	
Beryllium	100	96.271	96	90-110	
Cadmium	100	97.8	98	90-110	
Calcium	10000	9695.725	97	90-110	
Chromium	100	96.798	97	90-110	
Cobalt	100	100.333	100	90-110	
Copper	100	96.286	96	90-110	

ALS Houston, US Date: 06-Sep-22

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080927

Run ID: ICPMS07_416140
Instrument: ICPMS07
Method: SW6020A

CCV4 Date: 30-Aug-2022 21:28 Seq: 6827375 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Iron	10000	10021.355	100	90-110	
Lead	100	97.302	97	90-110	
Magnesium	10000	9956.848	100	90-110	
Manganese	100	98.741	99	90-110	
Nickel	100	100.422	100	90-110	
Potassium	10000	9817.279	98	90-110	
Selenium	100	98.066	98	90-110	
Silver	100	100.984	101	90-110	
Sodium	10000	10026.572	100	90-110	
Thallium	100	102.032	102	90-110	
Vanadium	100	100.408	100	90-110	
Zinc	100	100.247	100	90-110	

CCV5 Date: 30-Aug-2022 21:46 Seq: 6827385 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	94.898	95	90-110	
Antimony	100	95.412	95	90-110	
Arsenic	100	99.378	99	90-110	
Barium	100	99.397	99	90-110	
Beryllium	100	97.713	98	90-110	
Cadmium	100	98.075	98	90-110	
Calcium	10000	9681.416	97	90-110	
Chromium	100	96.52	97	90-110	
Cobalt	100	100.997	101	90-110	
Copper	100	96.255	96	90-110	
Iron	10000	9951.447	100	90-110	
Lead	100	98.475	99	90-110	
Magnesium	10000	9918.308	99	90-110	
Manganese	100	98.455	99	90-110	
Nickel	100	100.288	100	90-110	
Potassium	10000	9734.741	97	90-110	
Selenium	100	96.753	97	90-110	
Silver	100	100.998	101	90-110	
Sodium	10000	9821.776	98	90-110	
Thallium	100	104.073	104	90-110	
Vanadium	100	99.8	100	90-110	
Zinc	100	101.139	101	90-110	

CCV6 Date: 30-Aug-2022 23:13 Seq: 6827882 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	100.176	100	90-110	
Antimony	100	93.174	93	90-110	
Arsenic	100	99.207	99	90-110	
Barium	100	98.045	98	90-110	
Beryllium	100	99.536	100	90-110	
Cadmium	100	97.668	98	90-110	
Calcium	10000	9788.883	98	90-110	
Chromium	100	96.607	97	90-110	
Cobalt	100	100.256	100	90-110	
Copper	100	95.305	95	90-110	
Iron	10000	9977.458	100	90-110	
Lead	100	96.466	97	90-110	
Magnesium	10000	9808.681	98	90-110	
Manganese	100	98.834	99	90-110	
Nickel	100	100.116	100	90-110	

ALS Houston, US Date: 06-Sep-22

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080927

Run ID: ICPMS07_416140
Instrument: ICPMS07
Method: SW6020A

CCV6	Date: 30-Aug-2022 23:13		Seq: 6827882	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Potassium	10000	9902.702	99	90-110	
Selenium	100	97.239	97	90-110	
Silver	100	101.337	101	90-110	
Sodium	10000	9883.454	99	90-110	
Thallium	100	100.079	100	90-110	
Vanadium	100	99.826	100	90-110	
Zinc	100	100.435	100	90-110	

CCV7	Date: 30-Aug-2022 23:20		Seq: 6827886	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	98.774	99	90-110	
Antimony	100	93.683	94	90-110	
Arsenic	100	98.709	99	90-110	
Barium	100	99.303	99	90-110	
Beryllium	100	99.191	99	90-110	
Cadmium	100	98.668	99	90-110	
Calcium	10000	9769.64	98	90-110	
Chromium	100	96.126	96	90-110	
Cobalt	100	100.465	100	90-110	
Copper	100	95.284	95	90-110	
Iron	10000	9888.533	99	90-110	
Lead	100	98.646	99	90-110	
Magnesium	10000	9789.785	98	90-110	
Manganese	100	98.426	98	90-110	
Nickel	100	99.846	100	90-110	
Potassium	10000	9789.28	98	90-110	
Selenium	100	97.577	98	90-110	
Silver	100	100.773	101	90-110	
Sodium	10000	9888.434	99	90-110	
Thallium	100	102.639	103	90-110	
Vanadium	100	99.641	100	90-110	
Zinc	100	99.209	99	90-110	

CCV8	Date: 30-Aug-2022 23:33		Seq: 6827893	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	107.577	108	90-110	
Antimony	100	91.963	92	90-110	
Arsenic	100	98.773	99	90-110	
Barium	100	98.374	98	90-110	
Beryllium	100	100.876	101	90-110	
Cadmium	100	97.2	97	90-110	
Calcium	10000	9574.934	96	90-110	
Chromium	100	94.765	95	90-110	
Cobalt	100	100.462	100	90-110	
Copper	100	95.516	96	90-110	
Iron	10000	9899.159	99	90-110	
Lead	100	96.815	97	90-110	
Magnesium	10000	9610.447	96	90-110	
Manganese	100	97.116	97	90-110	
Nickel	100	98.869	99	90-110	
Potassium	10000	9784.547	98	90-110	
Selenium	100	96.074	96	90-110	
Silver	100	99.894	100	90-110	
Sodium	10000	9684.947	97	90-110	
Thallium	100	100.09	100	90-110	

ALS Houston, US Date: 06-Sep-22

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080927

Run ID: ICPMS07_416140
Instrument: ICPMS07
Method: SW6020A

CCV8	Date: 30-Aug-2022 23:33		Seq: 6827893	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Vanadium	100	98.978	99	90-110	
Zinc	100	99.346	99	90-110	

CCV9	Date: 30-Aug-2022 23:44		Seq: 6827899	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	109.06	109	90-110	
Antimony	100	92.941	93	90-110	
Arsenic	100	99.238	99	90-110	
Barium	100	97.609	98	90-110	
Beryllium	100	110.396	110	90-110	
Cadmium	100	96.339	96	90-110	
Calcium	10000	9704.748	97	90-110	
Chromium	100	95.602	96	90-110	
Cobalt	100	101.384	101	90-110	
Copper	100	96.178	96	90-110	
Iron	10000	9912.336	99	90-110	
Lead	100	96.303	96	90-110	
Magnesium	10000	9726.473	97	90-110	
Manganese	100	97.739	98	90-110	
Nickel	100	100.001	100	90-110	
Potassium	10000	9856.808	99	90-110	
Selenium	100	95.485	96	90-110	
Silver	100	99.366	99	90-110	
Sodium	10000	9720.257	97	90-110	
Thallium	100	101.356	101	90-110	
Vanadium	100	99.875	100	90-110	
Zinc	100	99.313	99	90-110	

ICCV10	Date: 31-Aug-2022 00:11		Seq: 6827920	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	93.654	94	90-110	
Antimony	100	94.378	94	90-110	
Arsenic	100	100.936	101	90-110	
Barium	100	97.477	98	90-110	
Beryllium	100	102.922	103	90-110	
Cadmium	100	98.868	99	90-110	
Calcium	10000	9801.586	98	90-110	
Chromium	100	94.945	95	90-110	
Cobalt	100	101.941	102	90-110	
Copper	100	94.499	95	90-110	
Iron	10000	9779.372	98	90-110	
Lead	100	95.922	96	90-110	
Magnesium	10000	9910.79	99	90-110	
Manganese	100	98.792	99	90-110	
Nickel	100	99.868	100	90-110	
Potassium	10000	9842.547	98	90-110	
Selenium	100	100.119	100	90-110	
Silver	100	102.594	103	90-110	
Sodium	10000	9840.704	98	90-110	
Thallium	100	102.479	102	90-110	
Vanadium	100	102.206	102	90-110	
Zinc	100	101.244	101	90-110	

ALS Houston, US Date: 06-Sep-22

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080927

Run ID: ICPMS07_416140
Instrument: ICPMS07
Method: SW6020A

CCV11 Date: 31-Aug-2022 00:20 Seq: 6827925 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	102.372	102	90-110	
Antimony	100	94.284	94	90-110	
Arsenic	100	102.352	102	90-110	
Barium	100	98.372	98	90-110	
Beryllium	100	103.41	103	90-110	
Cadmium	100	100.498	100	90-110	
Calcium	10000	10089.345	101	90-110	
Chromium	100	97.443	97	90-110	
Cobalt	100	103.188	103	90-110	
Copper	100	96.656	97	90-110	
Iron	10000	10123.131	101	90-110	
Lead	100	96.936	97	90-110	
Magnesium	10000	10074.858	101	90-110	
Manganese	100	101.539	102	90-110	
Nickel	100	101.451	101	90-110	
Potassium	10000	10185.564	102	90-110	
Selenium	100	103.074	103	90-110	
Silver	100	103.286	103	90-110	
Sodium	10000	10076.544	101	90-110	
Thallium	100	101.1	101	90-110	
Vanadium	100	103.823	104	90-110	
Zinc	100	102.407	102	90-110	

CCV12 Date: 31-Aug-2022 00:31 Seq: 6827931 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	108.808	109	90-110	
Antimony	100	94.804	95	90-110	
Arsenic	100	101.347	101	90-110	
Barium	100	96.606	97	90-110	
Beryllium	100	105.54	106	90-110	
Cadmium	100	99.164	99	90-110	
Calcium	10000	9989.616	100	90-110	
Chromium	100	96.499	97	90-110	
Cobalt	100	102.933	103	90-110	
Copper	100	96.356	96	90-110	
Iron	10000	10033.003	100	90-110	
Lead	100	98.318	98	90-110	
Magnesium	10000	10139.4	101	90-110	
Manganese	100	101.608	102	90-110	
Nickel	100	100.576	101	90-110	
Potassium	10000	10019.695	100	90-110	
Selenium	100	102.658	103	90-110	
Silver	100	101.457	101	90-110	
Sodium	10000	10098.467	101	90-110	
Thallium	100	102.351	102	90-110	
Vanadium	100	103.422	103	90-110	
Zinc	100	101.579	102	90-110	

CCV13 Date: 31-Aug-2022 00:48 Seq: 6827940 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	102.971	103	90-110	
Antimony	100	95.437	95	90-110	
Arsenic	100	101.662	102	90-110	
Barium	100	98.238	98	90-110	
Beryllium	100	104.197	104	90-110	

ALS Houston, US Date: 06-Sep-22

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080927

Run ID: ICPMS07_416140
Instrument: ICPMS07
Method: SW6020A

CCV13	Date: 31-Aug-2022 00:48	Seq: 6827940	CCV	Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Cadmium	100	100.064	100	90-110	
Calcium	10000	9891.571	99	90-110	
Chromium	100	96.549	97	90-110	
Cobalt	100	104.431	104	90-110	
Copper	100	96.777	97	90-110	
Iron	10000	10238.056	102	90-110	
Lead	100	96.595	97	90-110	
Magnesium	10000	10142.866	101	90-110	
Manganese	100	101.209	101	90-110	
Nickel	100	102.541	103	90-110	
Potassium	10000	10116.017	101	90-110	
Selenium	100	101.294	101	90-110	
Silver	100	103.59	104	90-110	
Sodium	10000	10102.074	101	90-110	
Thallium	100	100.93	101	90-110	
Vanadium	100	103.394	103	90-110	
Zinc	100	102.469	102	90-110	

CCV14	Date: 31-Aug-2022 01:05	Seq: 6827949	CCV	Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	106.762	107	90-110	
Antimony	100	94.669	95	90-110	
Arsenic	100	100.726	101	90-110	
Barium	100	97.777	98	90-110	
Beryllium	100	105.898	106	90-110	
Cadmium	100	99.712	100	90-110	
Calcium	10000	9899.662	99	90-110	
Chromium	100	96.702	97	90-110	
Cobalt	100	103.786	104	90-110	
Copper	100	96.373	96	90-110	
Iron	10000	10117.89	101	90-110	
Lead	100	96.588	97	90-110	
Magnesium	10000	10019.863	100	90-110	
Manganese	100	100.289	100	90-110	
Nickel	100	100.555	101	90-110	
Potassium	10000	10112.558	101	90-110	
Selenium	100	99.515	100	90-110	
Silver	100	102.143	102	90-110	
Sodium	10000	9882.853	99	90-110	
Thallium	100	102.153	102	90-110	
Vanadium	100	102.887	103	90-110	
Zinc	100	101.327	101	90-110	

ALS Houston, US Date: 06-Sep-22

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080927

Run ID: ICPMS07_416222
Instrument: ICPMS07
Method: SW6020A

ICV	Date: 31-Aug-2022 10:51		Seq: 6828518	ICV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	96.879	97	90-110	
Manganese	100	98.39	98	90-110	

CCV1	Date: 31-Aug-2022 11:42		Seq: 6828559	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	99.964	100	90-110	
Manganese	100	104.368	104	90-110	

CCV2	Date: 31-Aug-2022 12:16		Seq: 6828568	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	101.174	101	90-110	
Manganese	100	100.151	100	90-110	

CCV3	Date: 31-Aug-2022 12:43		Seq: 6828782	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	101.645	102	90-110	
Manganese	100	106.074	106	90-110	

CCV4	Date: 31-Aug-2022 13:06		Seq: 6828788	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	100.226	100	90-110	
Manganese	100	105.532	106	90-110	

CCV5	Date: 31-Aug-2022 13:29		Seq: 6828906	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	98.435	98	90-110	
Manganese	100	105.256	105	90-110	

CCV6	Date: 31-Aug-2022 13:51		Seq: 6828918	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	98.134	98	90-110	
Manganese	100	105.33	105	90-110	

CCV7	Date: 31-Aug-2022 16:18		Seq: 6829373	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	92.637	93	90-110	
Manganese	100	98.304	98	90-110	

CCV8	Date: 31-Aug-2022 16:48		Seq: 6829380	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	92.159	92	90-110	
Manganese	100	99.22	99	90-110	

CCV9	Date: 31-Aug-2022 17:43		Seq: 6829558	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	93.44	93	90-110	
Manganese	100	97.998	98	90-110	

CCV10	Date: 31-Aug-2022 18:08		Seq: 6829570	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	91.185	91	90-110	
Manganese	100	97.838	98	90-110	

ALS Houston, US

Date: 06-Sep-22

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080927

Run ID: ICPMS07_416222
Instrument: ICPMS07
Method: SW6020A

CCV11 Date: 31-Aug-2022 18:31 Seq: 6829582 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	93.649	94	90-110	
Manganese	100	98.562	99	90-110	

CCV12 Date: 31-Aug-2022 18:54 Seq: 6829594 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	92.461	93	90-110	
Manganese	100	97.726	98	90-110	

ALS Houston, US

Date: 06-Sep-22

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080927

Run ID: ICPMS07_416140
Instrument: ICPMS07
Method: SW6020A

ICB	Date: 30-Aug-2022 12:55		Seq: 6826396	ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	5	0.4	5	U	
Arsenic	5	0.4	5	U	
Barium	5	1.9	5	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	5	0.4	5	U	
Cobalt	5	0.1	5	U	
Copper	5	1	5	U	
Iron	200	12	200	U	
Lead	5	0.6	5	U	
Magnesium	200	10	200	U	
Manganese	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: 30-Aug-2022 20:13		Seq: 6827342	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-2.142	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	200	14	200	U	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB2	Date: 30-Aug-2022 20:54		Seq: 6827358	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	

ALS Houston, US Date: 06-Sep-22

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080927

Run ID: ICPMS07_416140
Instrument: ICPMS07
Method: SW6020A

CCB2	Date: 30-Aug-2022 20:54	Seq: 6827358	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	2	0.2	2	U
Vanadium	5	0.6	5	U
Zinc	4	2	4	U

MBLK-182759	Date: 30-Aug-2022 20:56	Seq: 6827359	MBLK	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**
Aluminum	4.275	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	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	11.44	10	200	J
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

CCB3	Date: 30-Aug-2022 21:14	Seq: 6827368	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**
Aluminum	-1.991	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

ALS Houston, US Date: 06-Sep-22

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080927

Run ID: ICPMS07_416140
Instrument: ICPMS07
Method: SW6020A

CCB3	Date: 30-Aug-2022 21:14		Seq: 6827368	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	200	14	200	U	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB4	Date: 30-Aug-2022 21:29		Seq: 6827376	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	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB5	Date: 30-Aug-2022 21:48		Seq: 6827386	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-1.852	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	

ALS Houston, US Date: 06-Sep-22

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080927

Run ID: ICPMS07_416140
Instrument: ICPMS07
Method: SW6020A

CCB5	Date: 30-Aug-2022 21:48		Seq: 6827386	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	200	14	200	U	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB6	Date: 30-Aug-2022 23:14		Seq: 6827883	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	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB7	Date: 30-Aug-2022 23:22		Seq: 6827887	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	2	0.2	2	U	

ALS Houston, US Date: 06-Sep-22

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080927

Run ID: ICPMS07_416140
Instrument: ICPMS07
Method: SW6020A

CCB7	Date: 30-Aug-2022 23:22		Seq: 6827887	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB8	Date: 30-Aug-2022 23:35		Seq: 6827894	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	7.445	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	-14.79	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB9	Date: 30-Aug-2022 23:46		Seq: 6827900	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	12.51	1.8	10		
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	16.13	12	200	J	
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	-16.69	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

ALS Houston, US Date: 06-Sep-22

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080927

Run ID: ICPMS07_416140
Instrument: ICPMS07
Method: SW6020A

ICCB10	Date: 31-Aug-2022 00:16		Seq: 6827923	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-8.825	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	200	14	200	U	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB11	Date: 31-Aug-2022 00:22		Seq: 6827926	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-9.214	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	-12.85	12	200	J	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	-0.609	0.6	2	J	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	200	14	200	U	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB12	Date: 31-Aug-2022 00:33		Seq: 6827932	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-2.288	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	

ALS Houston, US

Date: 06-Sep-22

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080927

Run ID: ICPMS07_416140
Instrument: ICPMS07
Method: SW6020A

CCB12	Date: 31-Aug-2022 00:33		Seq: 6827932	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	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB13	Date: 31-Aug-2022 00:50		Seq: 6827941	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	2.096	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	200	14	200	U	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB14	Date: 31-Aug-2022 01:07		Seq: 6827950	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	3.843	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	

ALS Houston, US Date: 06-Sep-22

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080927

Run ID: ICPMS07_416140
Instrument: ICPMS07
Method: SW6020A

CCB14 Date: 31-Aug-2022 01:07 Seq: 6827950 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	200	14	200	U
Thallium	2	0.2	2	U
Vanadium	5	0.6	5	U
Zinc	4	2	4	U

ALS Houston, US

Date: 06-Sep-22

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080927

Run ID: ICPMS07_416222
Instrument: ICPMS07
Method: SW6020A

ICB	Date: 31-Aug-2022 10:56		Seq: 6828521	ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-2.953	1.8	10	J	
Manganese	5	0.7	5	U	
CCB1	Date: 31-Aug-2022 11:44		Seq: 6828560	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-2.311	1.8	10	J	
Manganese	5	0.7	5	U	
CCB2	Date: 31-Aug-2022 12:18		Seq: 6828569	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-2.051	1.8	10	J	
Manganese	5	0.7	5	U	
CCB3	Date: 31-Aug-2022 12:45		Seq: 6828783	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-2.019	1.8	10	J	
Manganese	5	0.7	5	U	
CCB4	Date: 31-Aug-2022 13:08		Seq: 6828789	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Manganese	5	0.7	5	U	
CCB5	Date: 31-Aug-2022 13:30		Seq: 6828907	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Manganese	5	0.7	5	U	
CCB6	Date: 31-Aug-2022 13:53		Seq: 6828919	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Manganese	5	0.7	5	U	
CCB7	Date: 31-Aug-2022 16:19		Seq: 6829374	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-2.954	1.8	10	J	
Manganese	5	0.7	5	U	
CCB8	Date: 31-Aug-2022 16:50		Seq: 6829381	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-2.804	1.8	10	J	
Manganese	5	0.7	5	U	
CCB9	Date: 31-Aug-2022 17:45		Seq: 6829559	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-2.831	1.8	10	J	
Manganese	5	0.7	5	U	
CCB10	Date: 31-Aug-2022 18:10		Seq: 6829571	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-3.094	1.8	10	J	
Manganese	5	0.7	5	U	
CCB11	Date: 31-Aug-2022 18:32		Seq: 6829583	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-2.816	1.8	10	J	

ALS Houston, US Date: 06-Sep-22

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080927

Run ID: ICPMS07_416222
Instrument: ICPMS07
Method: SW6020A

CCB11	Date: 31-Aug-2022 18:32		Seq: 6829583	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Manganese	5	0.7	5	U	

CCB12	Date: 31-Aug-2022 18:56		Seq: 6829595	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-2.728	1.8	10	J	
Manganese	5	0.7	5	U	

ALS Houston, US Date: 06-Sep-22

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080927

Run ID:ICPMS07_416140
Instrument:ICPMS07
Method:SW6020A

ICSA	Date: 30-Aug-2022 12:57	Seq: 6826397	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100000	96260	96.3	
Antimony		0.088	0	
Arsenic		0.026	0	
Barium		0.533	0	
Beryllium		0.004	0	
Cadmium		1.01	0	
Calcium	100000	104300	104	
Chromium		1.462	0	
Cobalt		0.11	0	
Copper		0.051	0	
Iron	100000	98310	98.3	
Lead		0.041	0	
Magnesium	100000	100000	100	
Manganese		0.286	0	
Nickel		0.404	0	
Potassium	100000	99450	99.5	
Selenium		0.108	0	
Silver		0.003	0	
Sodium	100000	100400	100	
Thallium		0.004	0	
Vanadium		-0.087	0	
Zinc		0.304	0	

ICSAB	Date: 30-Aug-2022 12:59	Seq: 6826398	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100500	94440	94.0	
Antimony	100	96.54	96.5	
Arsenic	100	96.52	96.5	
Barium	100	96.35	96.3	
Beryllium	100	91.8	91.8	
Cadmium	100	94.51	94.5	
Calcium	110000	112600	102	
Chromium	100	94.01	94.0	
Cobalt	100	94.6	94.6	
Copper	100	89.46	89.5	
Iron	110000	106300	96.6	
Lead	100	91.44	91.4	
Magnesium	110000	107800	98.0	
Manganese	100	96.4	96.4	
Nickel	100	94.72	94.7	
Potassium	110000	106800	97.1	
Selenium	100	97.34	97.3	
Silver	100	92.32	92.3	
Sodium	110000	108000	98.2	
Thallium	100	95.86	95.9	
Vanadium	100	97.98	98.0	
Zinc	100	96.46	96.5	

ICSA	Date: 31-Aug-2022 01:14	Seq: 6827954	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100000	100200	100	
Antimony		0.08	0	
Arsenic		0.032	0	
Barium		0.408	0	

ALS Houston, US Date: 06-Sep-22

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080927

Run ID:ICPMS07_416140
Instrument:ICPMS07
Method:SW6020A

ICSA	Date: 31-Aug-2022 01:14	Seq: 6827954	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Beryllium		-0.016	0	
Cadmium		0.732	0	
Calcium	100000	104100	104	
Chromium		1.446	0	
Cobalt		0.096	0	
Copper		-0.797	0	
Iron	100000	98100	98.1	
Lead		0.032	0	
Magnesium	100000	100200	100	
Manganese		0.653	0	
Nickel		-0.169	0	
Potassium	100000	98880	98.9	
Selenium		0.367	0	
Silver		0.004	0	
Sodium	100000	101500	102	
Thallium		-0.002	0	
Vanadium		-0.045	0	
Zinc		0.843	0	

ICSAB	Date: 31-Aug-2022 01:16	Seq: 6827955	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100500	96780	96.3	
Antimony	100	90.62	90.6	
Arsenic	100	96.76	96.8	
Barium	100	95.9	95.9	
Beryllium	100	96.89	96.9	
Cadmium	100	93.58	93.6	
Calcium	110000	112800	103	
Chromium	100	92.59	92.6	
Cobalt	100	92.75	92.8	
Copper	100	88.24	88.2	
Iron	110000	105800	96.2	
Lead	100	93.82	93.8	
Magnesium	110000	107700	97.9	
Manganese	100	95.68	95.7	
Nickel	100	94.22	94.2	
Potassium	110000	106500	96.9	
Selenium	100	96.42	96.4	
Silver	100	93.02	93.0	
Sodium	110000	107200	97.4	
Thallium	100	97.62	97.6	
Vanadium	100	99.2	99.2	
Zinc	100	98.3	98.3	

ALS Houston, US Date: 06-Sep-22

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080927

Run ID: ICPMS07_416222
Instrument: ICPMS07
Method: SW6020A

ICSA	Date: 31-Aug-2022 11:02	Seq: 6828522	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100000	94490	94.5	
Manganese		0.322	0	

ICSAB	Date: 31-Aug-2022 11:04	Seq: 6828523	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100500	92130	91.7	
Manganese	100	95.22	95.2	

ALS Houston, US Date: 06-Sep-22

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080927

Date Analyzed: 30-Aug-2022 21:07
Date Extracted: 23-Aug-2022 10:00
Units: ug/L

Matrix Spike: HS22080927-01MS
Client Sample ID: AWD3_081622

Analysis Method: SW6020A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aluminum	74.82	206.3	100.0	132	209.3	100.0	134	84-117	1.41	20
Antimony	5.000	49.16	50.00	98.2	48.56	50.00	97.0	85-117	1.22	20
Arsenic	5.000	52.21	50.00	104	51.75	50.00	103	84-116	0.877	20
Barium	54.91	106.8	50.00	104	106.3	50.00	103	86-114	0.435	20
Beryllium	2.000	51.82	50.00	104	50.54	50.00	101	83-121	2.50	20
Cadmium	2.000	51.47	50.00	103	51.58	50.00	103	87-115	0.210	20
Calcium	1716	6814	5000	102	6779	5000	101	87-118	0.526	20
Chromium	117.5	175.8	50.00	117	172.8	50.00	111	85-116	1.69	20
Cobalt	0.3090	48.55	50.00	96.5	48.24	50.00	95.9	86-115	0.641	20
Copper	5.000	50.36	50.00	99.8	50.27	50.00	99.7	85-118	0.175	20
Iron	502.7	5603	5000	102	5536	5000	101	87-118	1.21	20
Lead	5.000	49.44	50.00	98.7	49.30	50.00	98.4	88-115	0.284	20
Magnesium	1081	6322	5000	105	6269	5000	104	83-118	0.849	20
Manganese	4.060	54.72	50.00	101	54.56	50.00	101	87-115	0.296	20
Nickel	43.66	93.99	50.00	101	93.66	50.00	100	85-117	0.352	20
Potassium	738.3	5841	5000	102	5803	5000	101	87-115	0.656	20
Selenium	4.197	54.68	50.00	101	53.40	50.00	98.4	80-120	2.36	20
Silver	5.000	45.04	50.00	90.1	44.79	50.00	89.6	85-116	0.563	20
Sodium	39660	44330	5000	93.5	43980	5000	86.4	85-117	0.795	20
Thallium	2.000	52.24	50.00	104	51.76	50.00	103	82-116	0.919	20
Vanadium	5.000	51.16	50.00	102	50.96	50.00	101	86-115	0.403	20
Zinc	4.188	57.39	50.00	106	57.69	50.00	107	83-119	0.518	20

ALS Houston, US Date: 06-Sep-22

Form 5B - Post Digest Sample Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080927

Date Analyzed: 30-Aug-2022 21:09
Date Extracted: 23-Aug-2022 10:00
Units: ug/L

Lab Sample ID: HS22080927-01PDS
Client Sample ID: AWD3_081622

Analysis Method: SW6020A

Analyte	Sample Result	PDS Result	Spike Amount	% Rec	% Rec Limits
Antimony	0	96.54	100	97	80-120
Arsenic	0	102.3	100	102	80-120
Barium	54.91	153.5	100	99	80-120
Beryllium	0	100.7	100	101	80-120
Cadmium	0	99.96	100	100	80-120
Calcium	1716	11530	10000	98	80-120
Chromium	117.5	214.9	100	97	80-120
Cobalt	0.309	101	100	101	80-120
Copper	0	98.05	100	98	80-120
Iron	502.7	10400	10000	99	80-120
Lead	0	98.34	100	98	80-120
Magnesium	1081	11030	10000	99	80-120
Manganese	4.06	102.1	100	98	80-120
Nickel	43.66	142.5	100	99	80-120
Potassium	738.3	10550	10000	98	80-120
Selenium	4.197	103.4	100	99	80-120
Silver	0	100.2	100	100	80-120
Sodium	39660	47970	10000	83	80-120
Thallium	0	101.3	100	101	80-120
Vanadium	0	100.6	100	100	80-120
Zinc	4.188	109.4	100	105	80-120

ALS Houston, US Date: 06-Sep-22

Form 5B - Post Digest Sample Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080927

Date Analyzed: 31-Aug-2022 12:51
Date Extracted: 23-Aug-2022 10:00
Units: ug/L

Lab Sample ID: HS22080927-01PDS
Client Sample ID: AWD3_081622

Analysis Method: SW6020A

Analyte	Sample Result	PDS Result	Spike Amount	% Rec	% Rec Limits
Aluminum	106.7	565.6	500	92	80-120

ALS Houston, US Date: 06-Sep-22

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080927

Date Analyzed: 30-Aug-2022 20:57
Date Extracted: 23-Aug-2022 10:00
Units: ug/L

Lab Sample ID: LCS-182759 Analysis Method: SW6020A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Aluminum	100	100.5	101	84-117
Antimony	50	50	100	85-117
Arsenic	50	52.88	106	84-116
Barium	50	51.24	102	86-114
Beryllium	50	52.78	106	83-121
Cadmium	50	51.32	103	87-115
Calcium	5000	5231	105	87-118
Chromium	50	50.31	101	85-116
Cobalt	50	49.22	98	86-115
Copper	50	51.01	102	85-118
Iron	5000	5232	105	87-118
Lead	50	50.29	101	88-115
Magnesium	5000	5336	107	83-118
Manganese	50	52.35	105	87-115
Nickel	50	52.44	105	85-117
Potassium	5000	5221	104	87-115
Selenium	50	52.35	105	80-120
Silver	50	46.21	92	85-116
Sodium	5000	5156	103	85-117
Thallium	50	52.8	106	82-116
Vanadium	50	51.89	104	86-115
Zinc	50	55.32	111	83-119

ALS Houston, US

Date: 06-Sep-22

Form 8 - ICP Serial Dilutions

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080927

Date Analyzed: 30-Aug-2022 21:11
Date Extracted: 23-Aug-2022 10:00
Units: ug/L

Lab Sample ID: HS22080927-01SD
Client Sample ID:AWD3_081622

Analysis Method: SW6020A

Analyte	Sample Result	C	SD Result	C	RPD	Q
Antimony	0	U	0	U	0	
Arsenic	0	U	0	U	0	
Barium	54.91		54.97		0	
Beryllium	0	U	0	U	0	
Cadmium	0	U	0	U	0	
Calcium	1716		1809	J	5	
Chromium	117.5		119.6		2	
Cobalt	0.309	J	0	U	0	
Copper	0	U	0	U	0	
Iron	502.7		483.4	J	4	
Lead	0	U	0	U	0	
Magnesium	1081		1105		2	
Manganese	4.06	J	4.123	J	2	
Nickel	43.66		42.78		2	
Potassium	738.3		719.4	J	3	
Selenium	4.197	J	0	U	0	
Silver	0	U	0	U	0	
Sodium	39660		40290		2	
Thallium	0	U	0	U	0	
Vanadium	0	U	0	U	0	
Zinc	4.188	J	0	U	0	

ALS Houston, US Date: 06-Sep-22

Form 8 - ICP Serial Dilutions

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080927

Date Analyzed: 31-Aug-2022 12:49
Date Extracted: 23-Aug-2022 10:00
Units: ug/L

Lab Sample ID: HS22080927-01SD
Client Sample ID:AWD3_081622

Analysis Method: SW6020A

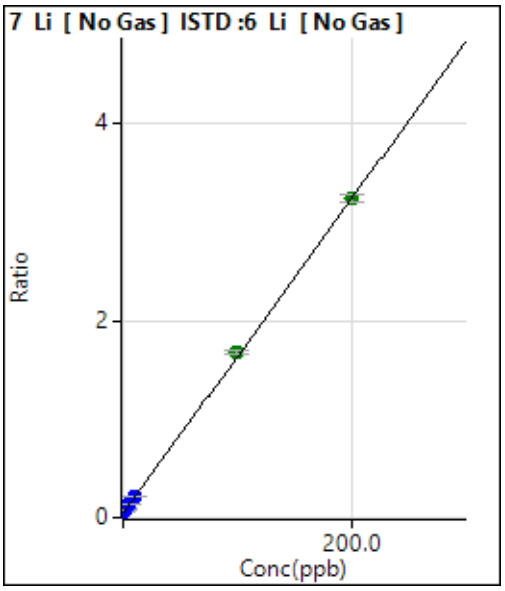
Analyte	Sample Result	C	SD Result	C	RPD	Q
Aluminum	106.7		90.55	J	15	

Calibration for 287_ICV.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\083022A.b\
Analysis File: 083022A.batch.bin
DA Date-Time: 08/31/2022 00:11:43
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	280CALB.d	CAL BLK	08/30/2022 23:57:34
2	281CALS.d	2/10/200	08/30/2022 23:59:32
3	282CALS.d	5/25/500	08/31/2022 00:01:31
4	283CALS.d	10/50/100	08/31/2022 00:03:29
5	284CALS.d	100/500/10K	08/31/2022 00:05:27
6	285CALS.d	200/1000/20K	08/31/2022 00:07:19

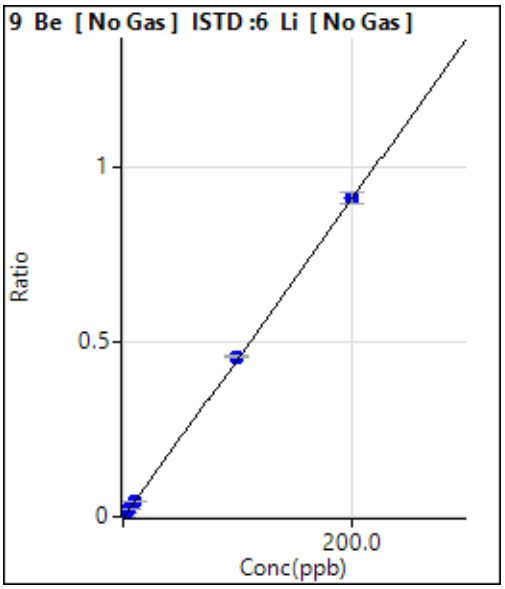
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	35112.09	0.0592	P	1.0	
2	☐	2.000	1.785	51776.75	0.0877	P	1.5	-10.7
3	☐	5.000	4.676	76590.64	0.1339	P	2.6	-6.5
4	☐	10.000	9.324	121069.99	0.2082	P	0.7	-6.8
5	☐	100.000	101.604	958770.32	1.6822	A	1.9	1.6
6	☐	200.000	199.242	1905125.23	3.2419	A	2.6	-0.4

y = 0.0160 * x + 0.0592
R = 0.9999
DL = 0.1082 ppb
BEC = 3.707 ppb

Weight: <None>
Min Conc: <None>

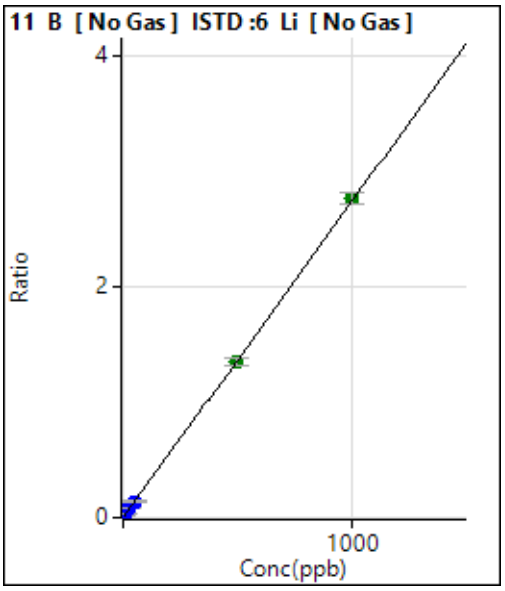


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	56.67	0.0001	P	17.8	
2	☐	2.000	2.006	5457.77	0.0092	P	1.9	0.3
3	☐	5.000	4.883	12800.88	0.0224	P	1.6	-2.3
4	☐	10.000	10.009	26616.95	0.0458	P	2.0	0.1
5	☐	100.000	100.429	261271.58	0.4584	P	0.4	0.4
6	☐	200.000	199.788	535764.17	0.9118	P	3.4	-0.1

y = 0.0046 * x + 9.5521E-005
R = 1.0000
DL = 0.0112 ppb
BEC = 0.02093 ppb

Weight: <None>
Min Conc: <None>

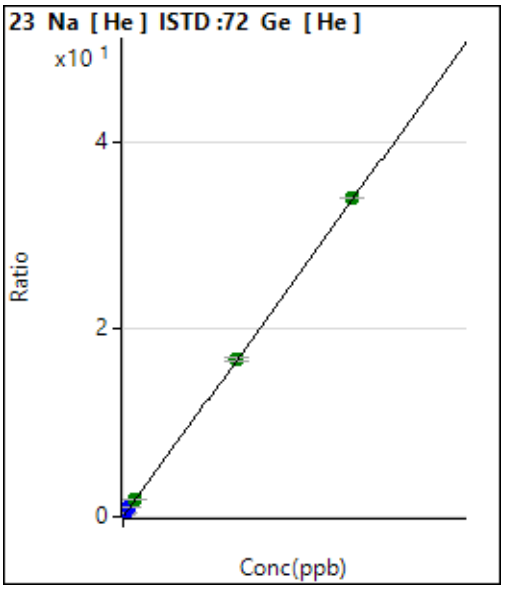
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	9149.72	0.0154	P	2.0	
2	☐	10.000	8.606	23028.99	0.0390	P	0.9	-13.9
3	☐	25.000	22.088	43457.09	0.0760	P	1.0	-11.6
4	☐	50.000	45.726	81862.28	0.1408	P	2.5	-8.5
5	☐	500.000	488.850	772679.39	1.3553	A	4.2	-2.2
6	☐	1000.000	1005.876	1628882.89	2.7724	A	4.0	0.6

y = 0.0027 * x + 0.0154
R = 0.9999
DL = 0.3424 ppb
BEC = 5.631 ppb

Weight: <None>
Min Conc: <None>

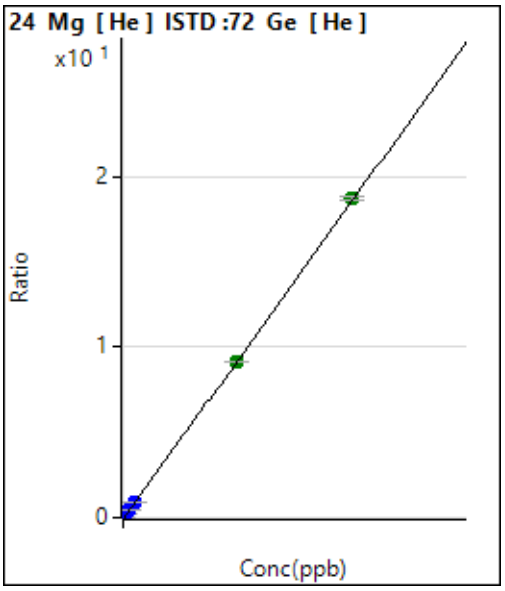


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	97807.67	0.1575	P	0.9	
2	☐	200.000	183.927	291536.45	0.4678	P	1.1	-8.0
3	☐	500.000	468.023	570962.72	0.9472	P	0.7	-6.4
4	☐	1000.000	1046.715	1191140.09	1.9237	A	0.8	4.7
5	☐	10000.00	9843.042	10326270.05	16.7663	A	2.1	-1.6
6	☐	20000.00	20077.10	20768848.44	34.0350	A	0.6	0.4

y = 0.0017 * x + 0.1575
R = 1.0000
DL = 2.612 ppb
BEC = 93.31 ppb

Weight: <None>
Min Conc: <None>

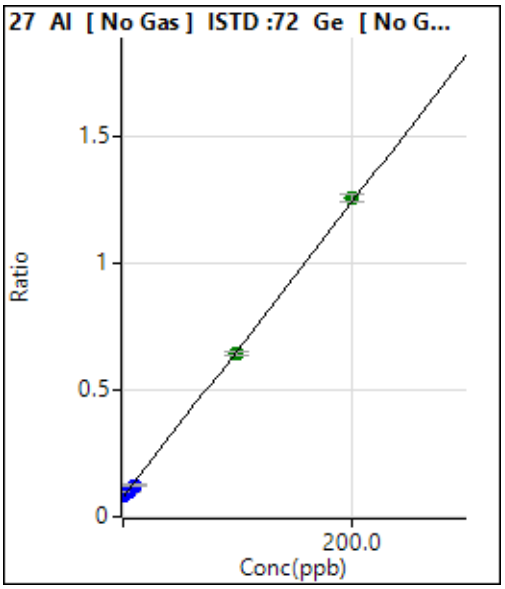
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3287.13	0.0053	P	4.6	
2	☐	200.000	182.387	109218.73	0.1753	P	1.1	-8.8
3	☐	500.000	462.555	263016.69	0.4363	P	1.0	-7.5
4	☐	1000.000	927.017	538195.35	0.8692	P	0.8	-7.3
5	☐	10000.00	9803.372	5630186.59	9.1409	A	0.5	-2.0
6	☐	20000.00	20103.07	11434710.25	18.7390	A	0.9	0.5

y = 9.3188E-004 * x + 0.0053
R = 0.9999
DL = 0.7886 ppb
BEC = 5.68 ppb

Weight: <None>
Min Conc: <None>

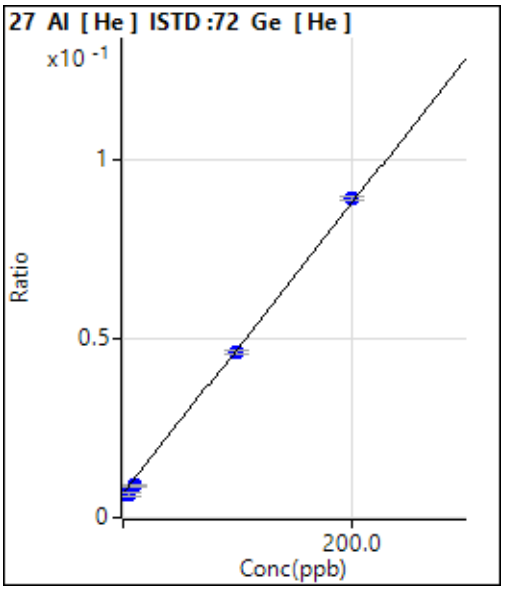


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	210310.03	0.0846	P	5.2	
2	☐	2.000	1.886	234696.10	0.0955	P	6.5	-5.7
3	☐	5.000	2.643	241424.97	0.0999	P	2.0	-47.1
4	☐	10.000	6.889	307412.00	0.1245	P	4.9	-31.1
5	☐	100.000	96.353	1595027.16	0.6436	A	2.0	-3.6
6	☐	200.000	202.039	3001751.93	1.2567	A	2.8	1.0

y = 0.0058 * x + 0.0846
R = 0.9997
DL = 2.257 ppb
BEC = 14.58 ppb

Weight: <None>
Min Conc: <None>

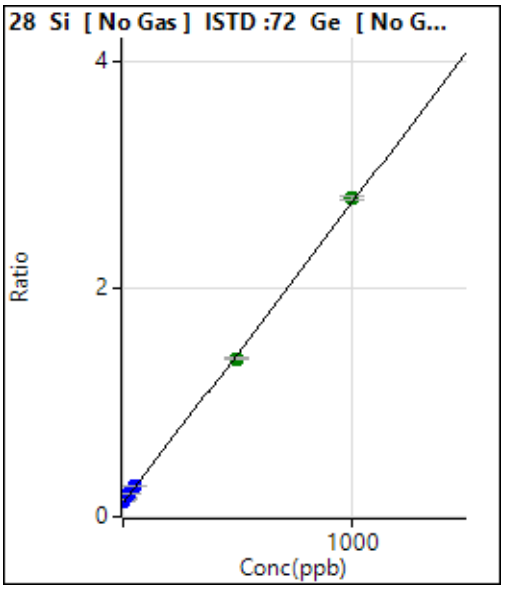
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4547.49	0.0073	P	4.1	
2	☐	2.000	-2.508	3930.66	0.0063	P	13.7	-225.4
3	☐	5.000	-2.219	3873.95	0.0064	P	10.7	-144.4
4	☐	10.000	4.298	5607.91	0.0091	P	4.5	-57.0
5	☐	100.000	96.205	28446.03	0.0462	P	1.7	-3.8
6	☐	200.000	202.408	54356.47	0.0891	P	1.7	1.2

y = 4.0394E-004 * x + 0.0073
R = 0.9995
DL = 2.225 ppb
BEC = 18.12 ppb

Weight: <None>
Min Conc: <None>

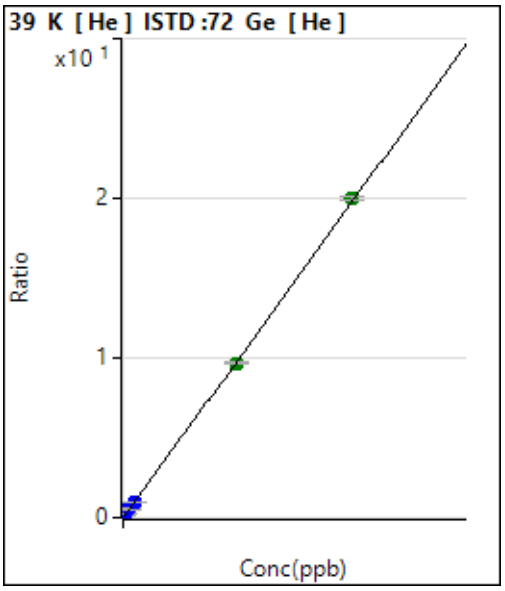


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	329638.03	0.1326	P	1.2	
2	☐	10.000	10.490	393761.89	0.1602	P	1.0	4.9
3	☐	25.000	24.379	475728.36	0.1969	P	1.1	-2.5
4	☐	50.000	50.938	658622.15	0.2668	P	0.2	1.9
5	☐	500.000	476.937	3443467.87	1.3895	A	1.4	-4.6
6	☐	1000.000	1011.495	6685044.28	2.7982	A	0.7	1.1

y = 0.0026 * x + 0.1326
R = 0.9996
DL = 1.794 ppb
BEC = 50.32 ppb

Weight: <None>
Min Conc: <None>

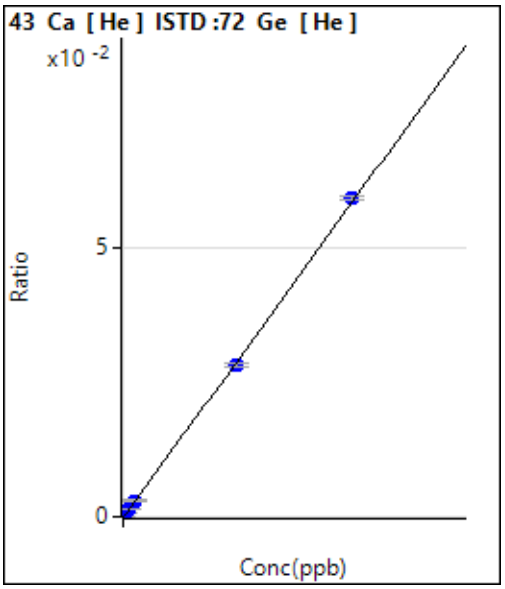
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	54162.92	0.0872	P	1.8	
2	☐	200.000	181.923	166484.77	0.2671	P	1.0	-9.0
3	☐	500.000	462.635	328394.92	0.5448	P	0.8	-7.5
4	☐	1000.000	932.113	624893.96	1.0092	P	0.8	-6.8
5	☐	10000.00	9693.512	5959291.16	9.6754	A	0.9	-3.1
6	☐	20000.00	20157.75	12220016.49	20.0259	A	1.2	0.8

y = 9.8913E-004 * x + 0.0872
R = 0.9998
DL = 4.66 ppb
BEC = 88.15 ppb

Weight: <None>
Min Conc: <None>

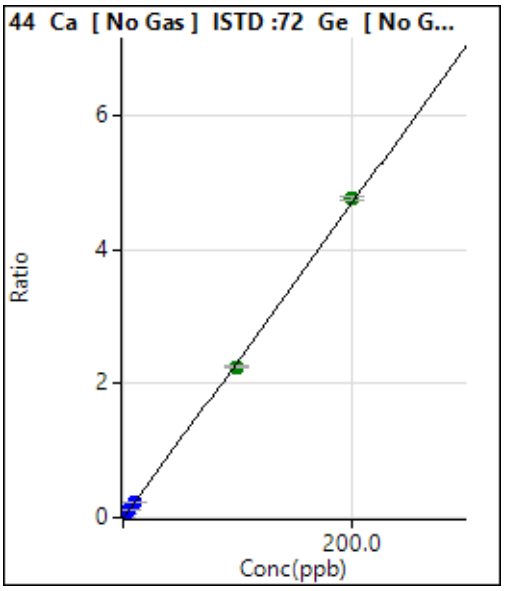


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	60.00	0.0001	P	66.6	
2	☐	200.000	205.875	436.68	0.0007	P	18.1	2.9
3	☐	500.000	498.814	940.05	0.0016	P	4.8	-0.2
4	☐	1000.000	978.260	1836.82	0.0030	P	9.1	-2.2
5	☐	10000.00	9574.120	17358.03	0.0282	P	2.1	-4.3
6	☐	20000.00	20213.99	36244.54	0.0594	P	1.0	1.1

y = 2.9336E-006 * x + 9.6446E-005
R = 0.9997
DL = 65.73 ppb
BEC = 32.88 ppb

Weight: <None>
Min Conc: <None>

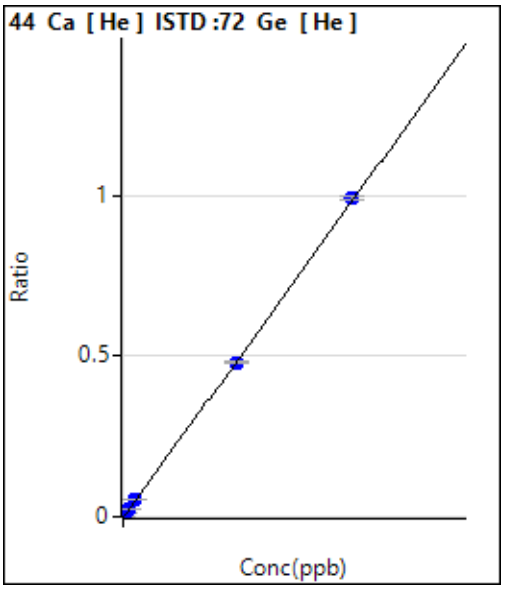
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	23466.98	0.0094	P	1.0	
2	☐	2.000	1.861	130810.66	0.0532	P	1.1	-6.9
3	☐	5.000	4.518	279707.76	0.1157	P	0.9	-9.6
4	☐	10.000	9.260	561047.89	0.2273	P	0.5	-7.4
5	☐	100.000	95.190	5573722.00	2.2491	A	1.1	-4.8
6	☐	200.000	202.455	11401667.75	4.7728	A	1.5	1.2

y = 0.0235 * x + 0.0094
R = 0.9996
DL = 0.0123 ppb
BEC = 0.4012 ppb

Weight: <None>
Min Conc: <None>

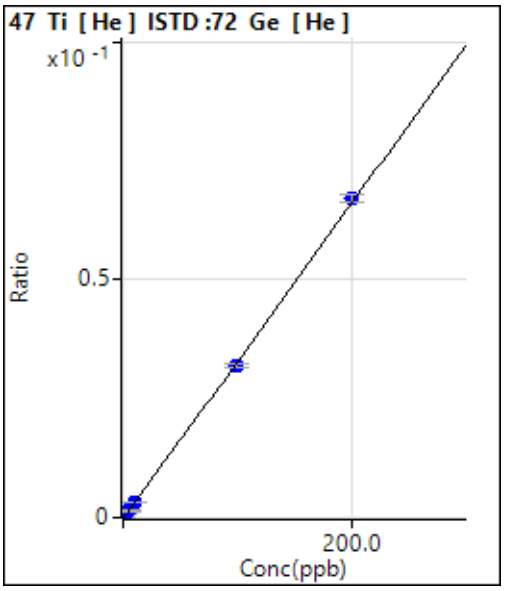


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	863.38	0.0014	P	13.7	
2	☐	200.000	191.748	6751.76	0.0108	P	4.9	-4.1
3	☐	500.000	479.607	15075.17	0.0250	P	2.6	-4.1
4	☐	1000.000	1012.973	31750.17	0.0513	P	1.5	1.3
5	☐	10000.00	9731.236	296014.43	0.4806	P	1.4	-2.7
6	☐	20000.00	20134.32	605900.23	0.9929	P	0.7	0.7

y = 4.9246E-005 * x + 0.0014
R = 0.9999
DL = 11.63 ppb
BEC = 28.23 ppb

Weight: <None>
Min Conc: <None>

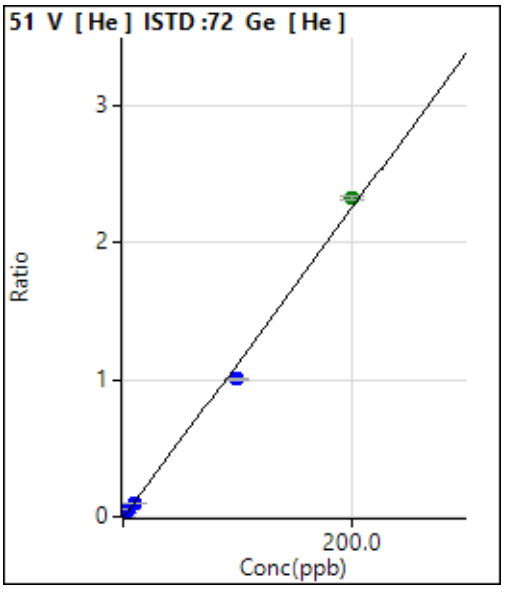
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	33.33	0.0001	P	68.7	
2	☐	2.000	2.306	510.02	0.0008	P	20.4	15.3
3	☐	5.000	4.335	900.05	0.0015	P	11.3	-13.3
4	☐	10.000	9.343	1953.51	0.0032	P	6.1	-6.6
5	☐	100.000	95.807	19620.93	0.0319	P	3.0	-4.2
6	☐	200.000	202.143	40978.11	0.0672	P	1.9	1.1

y = 3.3195E-004 * x + 5.3523E-005
R = 0.9997
DL = 0.3322 ppb
BEC = 0.1612 ppb

Weight: <None>
Min Conc: <None>

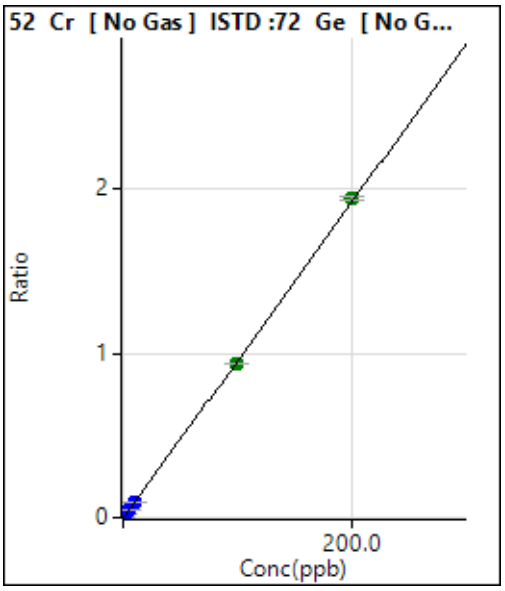


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1901.26	0.0031	P	5.4	
2	☐	2.000	1.770	14339.77	0.0230	P	0.5	-11.5
3	☐	5.000	4.446	32047.41	0.0532	P	1.1	-11.1
4	☐	10.000	8.966	64461.72	0.1041	P	0.4	-10.3
5	☐	100.000	88.582	616744.75	1.0013	P	0.9	-11.4
6	☐	200.000	205.777	1416946.82	2.3221	A	1.1	2.9

y = 0.0113 * x + 0.0031
R = 0.9978
DL = 0.04363 ppb
BEC = 0.2715 ppb

Weight: <None>
Min Conc: <None>

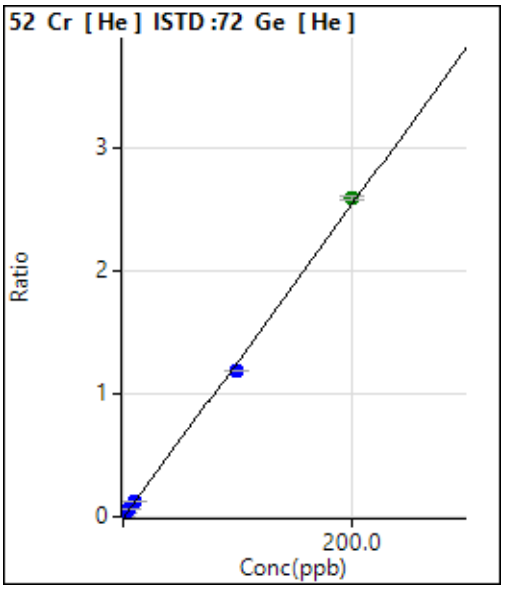
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13743.76	0.0055	P	3.3	
2	☐	2.000	1.948	59619.95	0.0243	P	2.1	-2.6
3	☐	5.000	4.768	124159.48	0.0514	P	2.0	-4.6
4	☐	10.000	9.699	243827.29	0.0988	P	0.3	-3.0
5	☐	100.000	96.841	2321287.26	0.9367	A	0.8	-3.2
6	☐	200.000	201.601	4644214.10	1.9440	A	1.2	0.8

y = 0.0096 * x + 0.0055
R = 0.9998
DL = 0.05689 ppb
BEC = 0.575 ppb

Weight: <None>
Min Conc: <None>

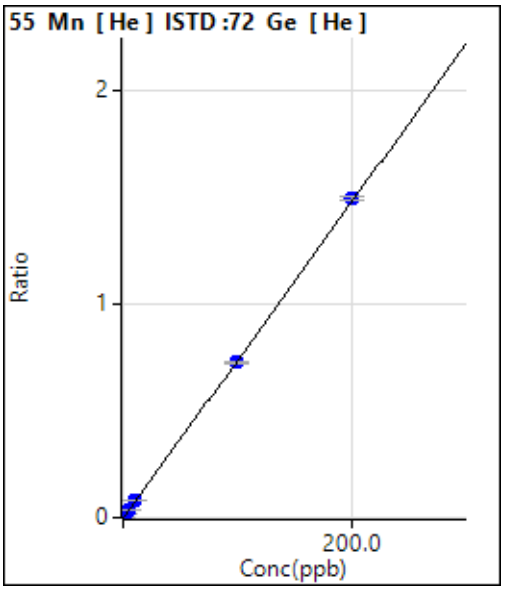


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	713.37	0.0011	P	12.4	
2	☐	2.000	1.958	16233.22	0.0260	P	1.0	-2.1
3	☐	5.000	4.738	37000.28	0.0614	P	2.4	-5.2
4	☐	10.000	9.596	76254.89	0.1231	P	0.0	-4.0
5	☐	100.000	93.150	730160.04	1.1855	P	1.2	-6.9
6	☐	200.000	203.452	1579143.05	2.5879	A	1.6	1.7

y = 0.0127 * x + 0.0011
R = 0.9992
DL = 0.03357 ppb
BEC = 0.09037 ppb

Weight: <None>
Min Conc: <None>

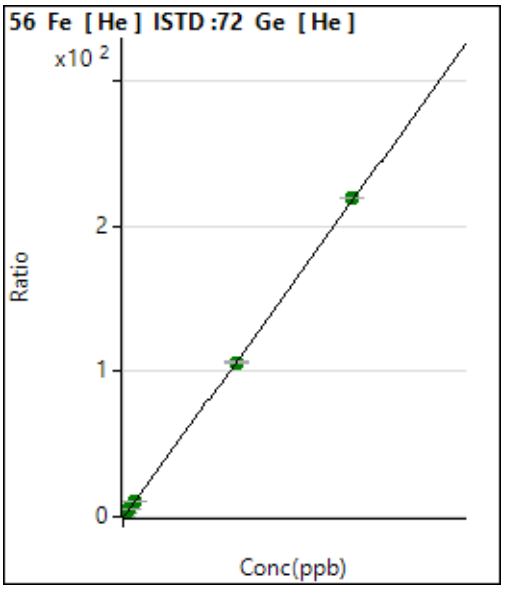
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2490.29	0.0040	P	10.7	
2	☐	2.000	1.826	10934.53	0.0175	P	1.8	-8.7
3	☐	5.000	4.813	23928.03	0.0397	P	0.5	-3.7
4	☐	10.000	9.942	48131.76	0.0777	P	1.2	-0.6
5	☐	100.000	97.371	447164.26	0.7260	P	1.6	-2.6
6	☐	200.000	201.324	913424.34	1.4969	P	0.8	0.7

y = 0.0074 * x + 0.0040
R = 0.9999
DL = 0.1737 ppb
BEC = 0.5404 ppb

Weight: <None>
Min Conc: <None>

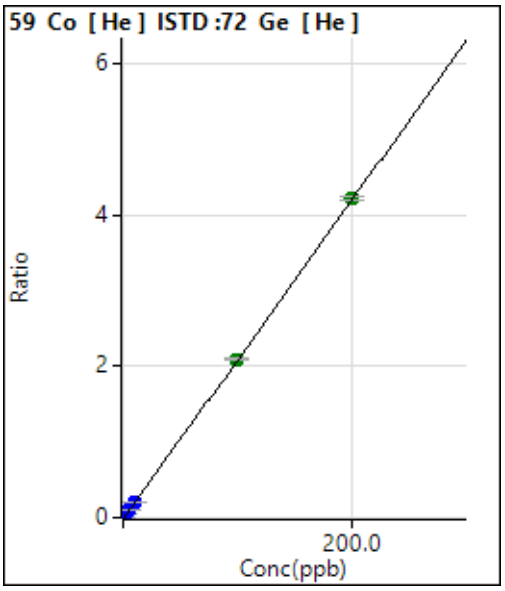


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	152345.24	0.2452	P	8.5	
2	☐	200.000	202.100	1523299.46	2.4444	A	2.4	1.0
3	☐	500.000	502.329	3442906.51	5.7114	A	1.1	0.5
4	☐	1000.000	999.316	6885301.56	11.1195	A	0.4	-0.1
5	☐	10000.00	9726.686	65343027.36	106.088	A	0.7	-2.7
6	☐	20000.00	20136.61	133866304.6	219.366	A	0.4	0.7

y = 0.0109 * x + 0.2452
R = 0.9999
DL = 5.752 ppb
BEC = 22.54 ppb

Weight: <None>
Min Conc: <None>

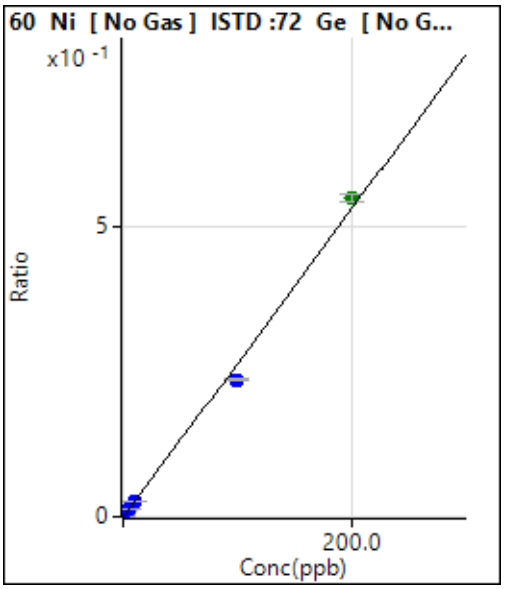
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	283.34	0.0005	P	22.8	
2	☐	2.000	1.905	25343.77	0.0407	P	1.7	-4.7
3	☐	5.000	4.747	60668.22	0.1007	P	2.0	-5.1
4	☐	10.000	9.445	123731.91	0.1998	P	0.4	-5.5
5	☐	100.000	99.519	1294067.01	2.1010	A	0.9	-0.5
6	☐	200.000	200.275	2579996.21	4.2277	A	1.4	0.1

y = 0.0211 * x + 4.5622E-004
R = 1.0000
DL = 0.01481 ppb
BEC = 0.02161 ppb

Weight: <None>
Min Conc: <None>

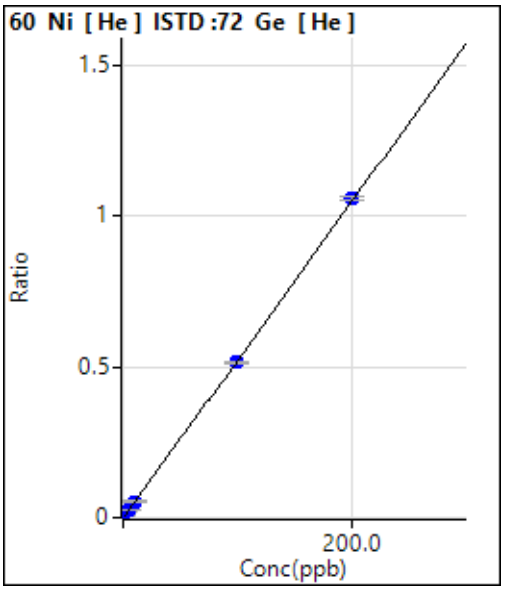


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4070.69	0.0016	P	3.8	
2	☐	2.000	2.761	22021.44	0.0090	P	5.0	38.1
3	☐	5.000	4.093	30200.55	0.0125	P	2.2	-18.1
4	☐	10.000	8.776	61502.27	0.0249	P	1.1	-12.2
5	☐	100.000	88.003	582572.48	0.2351	P	1.0	-12.0
6	☐	200.000	206.075	1309842.51	0.5483	A	2.7	3.0

y = 0.0027 * x + 0.0016
R = 0.9975
DL = 0.07035 ppb
BEC = 0.6171 ppb

Weight: <None>
Min Conc: <None>

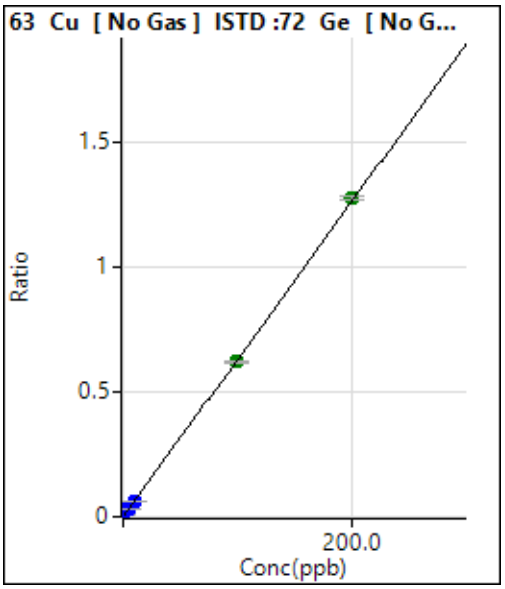
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2186.89	0.0035	P	0.5	
2	☐	2.000	2.932	11785.27	0.0189	P	4.2	46.6
3	☐	5.000	4.422	16113.12	0.0267	P	1.4	-11.6
4	☐	10.000	9.485	33007.03	0.0533	P	3.9	-5.1
5	☐	100.000	97.628	317766.24	0.5159	P	1.6	-2.4
6	☐	200.000	201.217	646600.63	1.0596	P	0.7	0.6

y = 0.0052 * x + 0.0035
R = 0.9999
DL = 0.01013 ppb
BEC = 0.6707 ppb

Weight: <None>
Min Conc: <None>

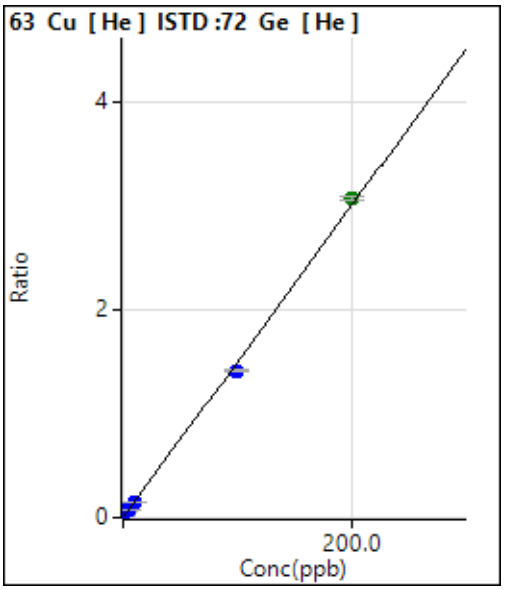


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16063.00	0.0065	P	1.7	
2	☐	2.000	3.445	69159.02	0.0281	P	2.0	72.2
3	☐	5.000	4.210	79649.29	0.0330	P	3.6	-15.8
4	☐	10.000	9.108	157483.83	0.0638	P	0.4	-8.9
5	☐	100.000	97.346	1534871.80	0.6193	A	1.6	-2.7
6	☐	200.000	201.377	3044029.54	1.2743	A	1.7	0.7

y = 0.0063 * x + 0.0065
R = 0.9998
DL = 0.05271 ppb
BEC = 1.026 ppb

Weight: <None>
Min Conc: <None>

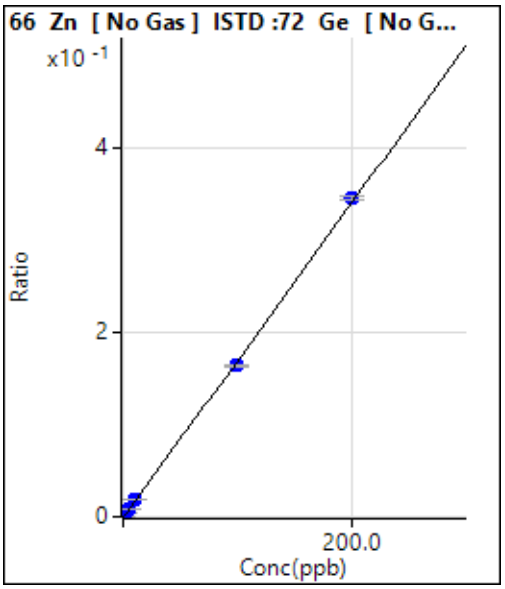
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11081.45	0.0178	P	5.7	
2	☐	2.000	3.138	40433.74	0.0649	P	3.8	56.9
3	☐	5.000	4.093	47747.55	0.0792	P	1.1	-18.1
4	☐	10.000	9.021	94799.09	0.1531	P	1.8	-9.8
5	☐	100.000	93.043	870182.93	1.4128	P	1.0	-7.0
6	☐	200.000	203.539	1873039.29	3.0695	A	1.5	1.8

y = 0.0150 * x + 0.0178
R = 0.9991
DL = 0.2041 ppb
BEC = 1.19 ppb

Weight: <None>
Min Conc: <None>

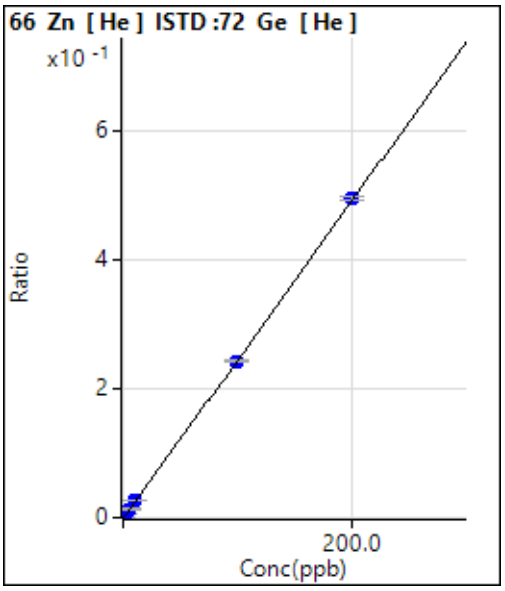


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1263.42	0.0005	P	5.0	
2	☐	2.000	2.115	10127.23	0.0041	P	1.4	5.8
3	☐	5.000	4.915	21517.40	0.0089	P	2.1	-1.7
4	☐	10.000	10.270	44553.36	0.0181	P	0.4	2.7
5	☐	100.000	95.552	405708.51	0.1637	P	1.6	-4.4
6	☐	200.000	202.212	826340.17	0.3459	P	1.6	1.1

y = 0.0017 * x + 5.0822E-004
R = 0.9996
DL = 0.04495 ppb
BEC = 0.2975 ppb

Weight: <None>
Min Conc: <None>

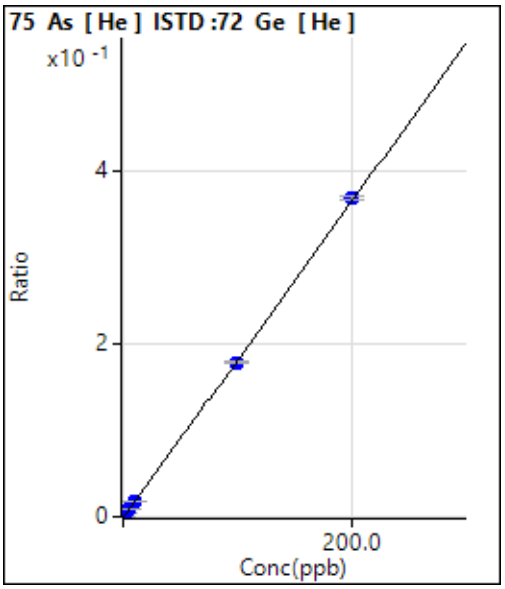
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	520.02	0.0008	P	15.5	
2	☐	2.000	2.063	3690.58	0.0059	P	4.2	3.1
3	☐	5.000	5.057	8019.17	0.0133	P	3.8	1.1
4	☐	10.000	10.209	16103.11	0.0260	P	2.8	2.1
5	☐	100.000	98.324	149826.85	0.2433	P	1.0	-1.7
6	☐	200.000	200.826	302641.23	0.4960	P	1.6	0.4

y = 0.0025 * x + 8.3700E-004
R = 0.9999
DL = 0.1582 ppb
BEC = 0.3395 ppb

Weight: <None>
Min Conc: <None>

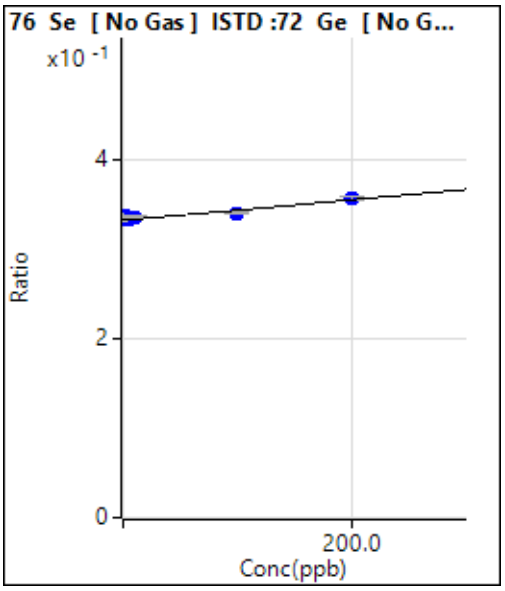


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	133.34	0.0002	P	26.7	
2	☐	2.000	1.888	2287.98	0.0037	P	1.2	-5.6
3	☐	5.000	4.859	5491.14	0.0091	P	1.3	-2.8
4	☐	10.000	9.987	11453.79	0.0185	P	1.3	-0.1
5	☐	100.000	97.435	109996.35	0.1786	P	0.8	-2.6
6	☐	200.000	201.288	224989.97	0.3687	P	0.8	0.6

y = 0.0018 * x + 2.1486E-004
R = 0.9999
DL = 0.09406 ppb
BEC = 0.1174 ppb

Weight: <None>
Min Conc: <None>

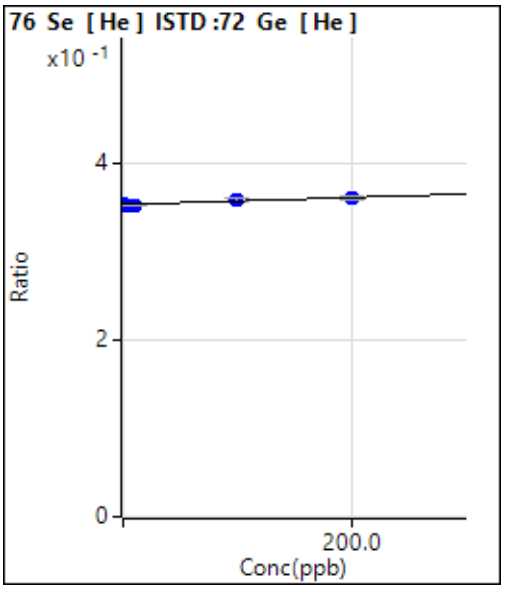
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	827000.95	0.3327	P	0.8	
2	☐	2.000	46.595	830711.26	0.3381	P	1.3	2229.8
3	☐	5.000	5.520	805516.50	0.3333	P	1.0	10.4
4	☐	10.000	31.421	830103.14	0.3363	P	0.7	214.2
5	☐	100.000	69.940	844486.94	0.3408	P	0.6	-30.1
6	☐	200.000	213.500	853757.98	0.3574	P	1.5	6.7

y = 1.1572E-004 * x + 0.3327
R = 0.9523
DL = 72.61 ppb
BEC = 2875 ppb

Weight: <None>
Min Conc: <None>

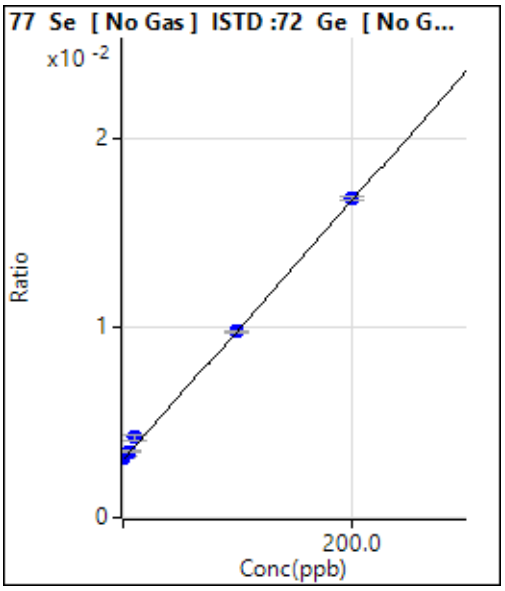


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	219548.47	0.3534	P	0.3	
2	☐	2.000	-41.485	219219.83	0.3518	P	1.2	-2174.
3	☐	5.000	-15.942	212656.55	0.3528	P	0.9	-418.8
4	☐	10.000	-13.080	218525.76	0.3529	P	0.2	-230.8
5	☐	100.000	132.376	220980.77	0.3588	P	0.7	32.4
6	☐	200.000	185.924	220244.04	0.3609	P	0.9	-7.0

y = 4.0291E-005 * x + 0.3534
R = 0.9664
DL = 90.74 ppb
BEC = 8772 ppb

Weight: <None>
Min Conc: <None>

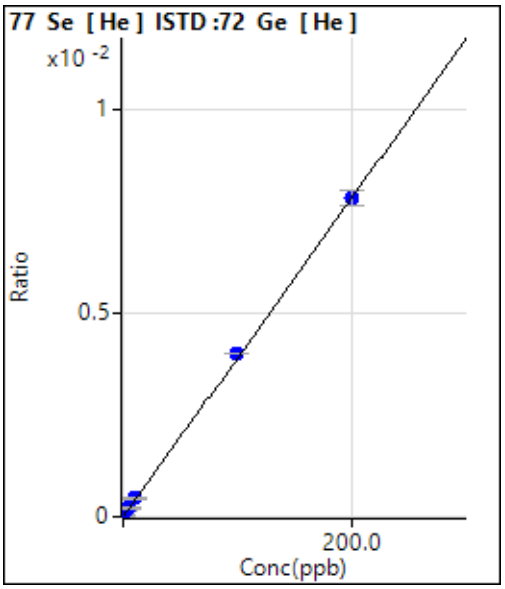
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7805.73	0.0031	P	2.8	
2	☐	2.000	3.067	8225.97	0.0033	P	4.6	53.3
3	☐	5.000	5.019	8412.78	0.0035	P	1.2	0.4
4	☐	10.000	15.828	10407.54	0.0042	P	5.5	58.3
5	☐	100.000	97.721	24268.85	0.0098	P	1.0	-2.3
6	☐	200.000	200.837	40173.44	0.0168	P	0.6	0.4

y = 6.8093E-005 * x + 0.0031
R = 0.9995
DL = 3.821 ppb
BEC = 46.1 ppb

Weight: <None>
Min Conc: <None>

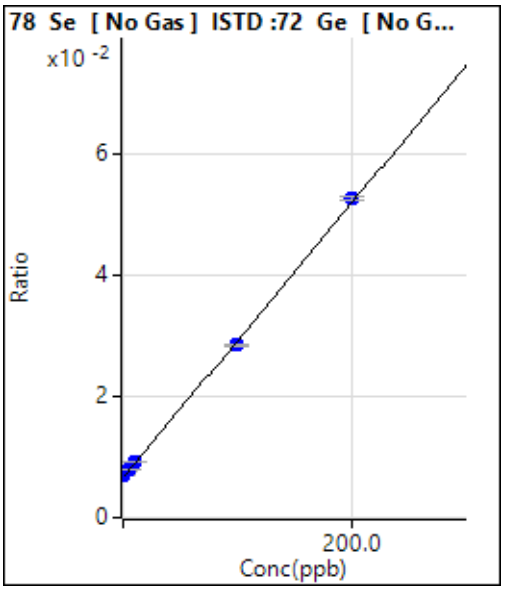


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20.00	0.0000	P	86.6	
2	☐	2.000	3.143	96.67	0.0002	P	15.9	57.1
3	☐	5.000	4.967	136.67	0.0002	P	21.9	-0.7
4	☐	10.000	10.868	283.34	0.0005	P	14.3	8.7
5	☐	100.000	101.605	2470.28	0.0040	P	1.0	1.6
6	☐	200.000	199.143	4777.60	0.0078	P	4.7	-0.4

y = 3.9155E-005 * x + 3.2091E-005
R = 0.9999
DL = 2.129 ppb
BEC = 0.8196 ppb

Weight: <None>
Min Conc: <None>

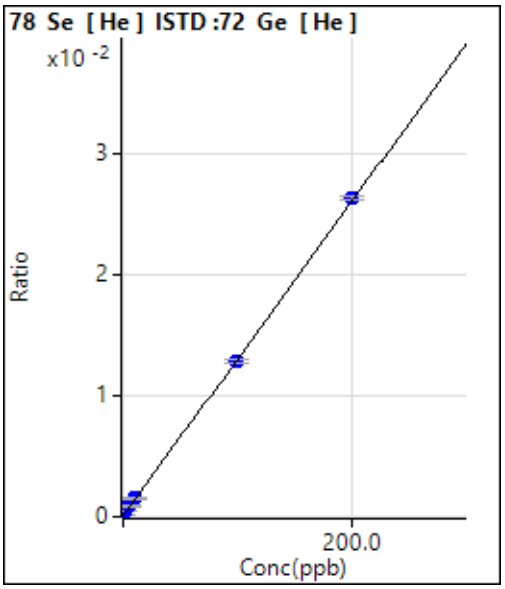
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	17157.82	0.0069	P	0.1	
2	☐	2.000	2.886	18569.69	0.0076	P	0.9	44.3
3	☐	5.000	4.971	19404.27	0.0080	P	2.1	-0.6
4	☐	10.000	10.053	22666.13	0.0092	P	2.1	0.5
5	☐	100.000	95.199	70638.30	0.0285	P	1.7	-4.8
6	☐	200.000	202.390	126207.22	0.0528	P	1.5	1.2

y = 2.2693E-004 * x + 0.0069
R = 0.9996
DL = 0.1052 ppb
BEC = 30.41 ppb

Weight: <None>
Min Conc: <None>

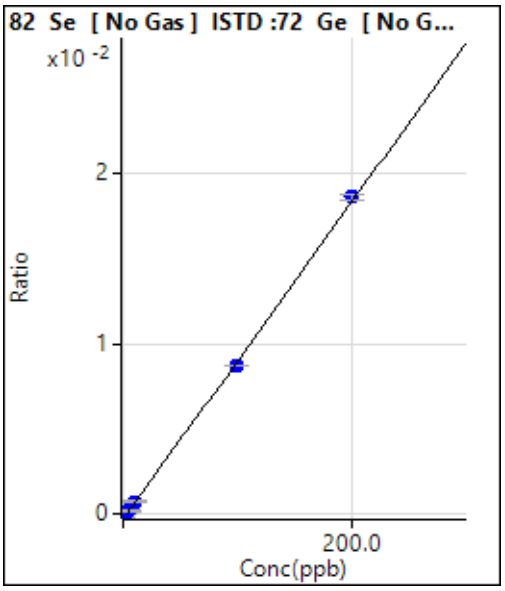


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	128.00	0.0002	P	4.8	
2	☐	2.000	2.021	292.00	0.0005	P	8.8	1.0
3	☐	5.000	5.207	532.01	0.0009	P	6.9	4.1
4	☐	10.000	10.194	948.04	0.0015	P	8.7	1.9
5	☐	100.000	97.279	7914.34	0.0129	P	3.3	-2.7
6	☐	200.000	201.345	16095.61	0.0264	P	1.6	0.7

y = 1.2998E-004 * x + 2.0602E-004
R = 0.9999
DL = 0.2305 ppb
BEC = 1.585 ppb

Weight: <None>
Min Conc: <None>

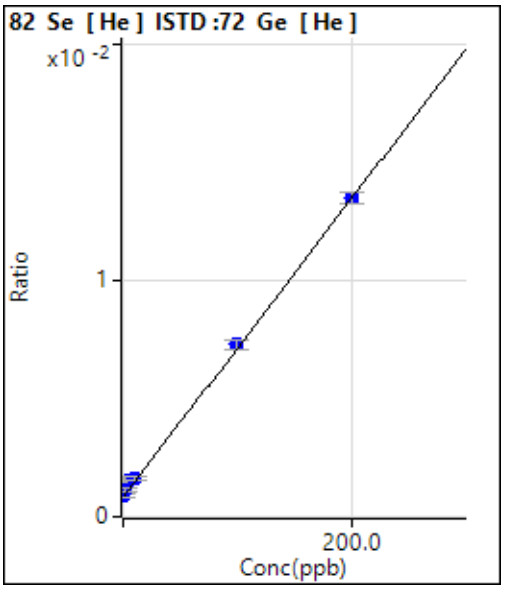
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-528.89	-0.0002	P	-18.3	
2	☐	2.000	2.507	50.96	0.0000	P	493.4	25.4
3	☐	5.000	4.690	540.12	0.0002	P	52.9	-6.2
4	☐	10.000	10.304	1843.58	0.0007	P	15.4	3.0
5	☐	100.000	95.810	21596.64	0.0087	P	1.2	-4.2
6	☐	200.000	202.082	44475.86	0.0186	P	1.6	1.0

y = 9.3185E-005 * x - 2.1295E-004
R = 0.9997
DL = 1.257 ppb
BEC = -2.285 ppb

Weight: <None>
Min Conc: <None>

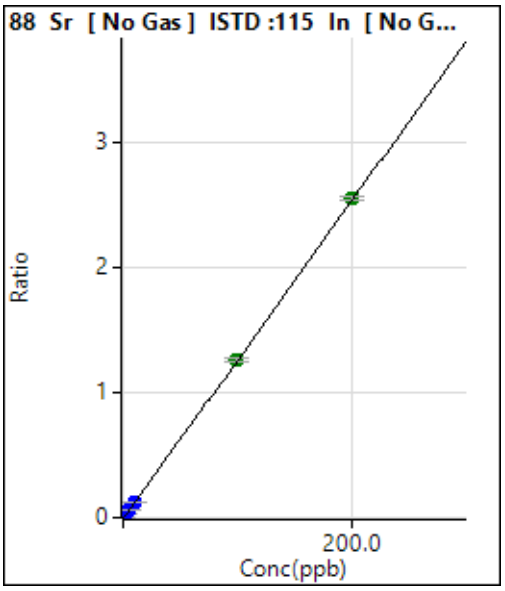


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	560.02	0.0009	P	16.5	
2	☐	2.000	3.754	710.03	0.0011	P	8.9	87.7
3	☐	5.000	10.566	946.72	0.0016	P	8.5	111.3
4	☐	10.000	11.531	1010.06	0.0016	P	11.3	15.3
5	☐	100.000	101.134	4494.17	0.0073	P	5.9	1.1
6	☐	200.000	199.200	8236.01	0.0135	P	4.2	-0.4

y = 6.3236E-005 * x + 9.0216E-004
R = 0.9997
DL = 7.074 ppb
BEC = 14.27 ppb

Weight: <None>
Min Conc: <None>

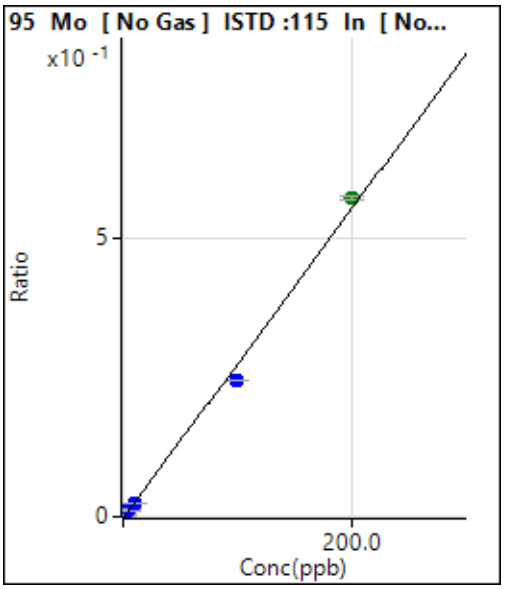
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4354.13	0.0015	P	3.9	
2	☐	2.000	1.882	73427.96	0.0254	P	0.7	-5.9
3	☐	5.000	4.665	172845.19	0.0607	P	1.1	-6.7
4	☐	10.000	9.611	357217.52	0.1236	P	1.0	-3.9
5	☐	100.000	98.849	3554677.65	1.2571	A	2.2	-1.2
6	☐	200.000	200.604	7126515.31	2.5496	A	1.4	0.3

y = 0.0127 * x + 0.0015
R = 1.0000
DL = 0.01384 ppb
BEC = 0.1174 ppb

Weight: <None>
Min Conc: <None>

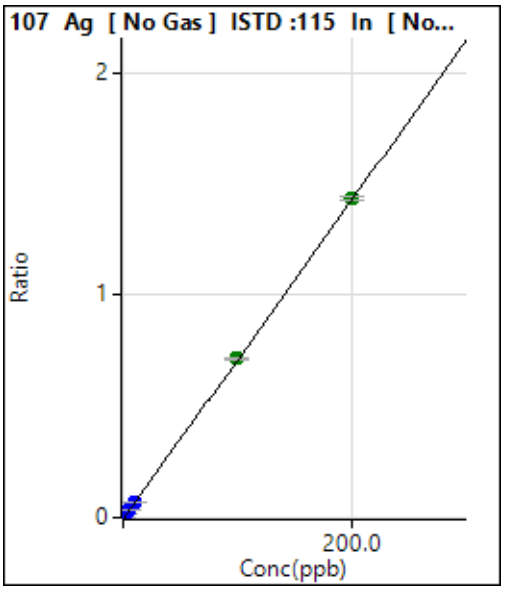


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	86.67	0.0000	P	41.3	
2	☐	2.000	1.695	13707.24	0.0047	P	0.7	-15.3
3	☐	5.000	4.338	34394.73	0.0121	P	1.8	-13.2
4	☐	10.000	8.927	71823.42	0.0248	P	1.6	-10.7
5	☐	100.000	88.076	692467.90	0.2448	P	0.7	-11.9
6	☐	200.000	206.035	1600804.61	0.5727	A	1.7	3.0

y = 0.0028 * x + 2.9768E-005
R = 0.9976
DL = 0.01328 ppb
BEC = 0.01071 ppb

Weight: <None>
Min Conc: <None>

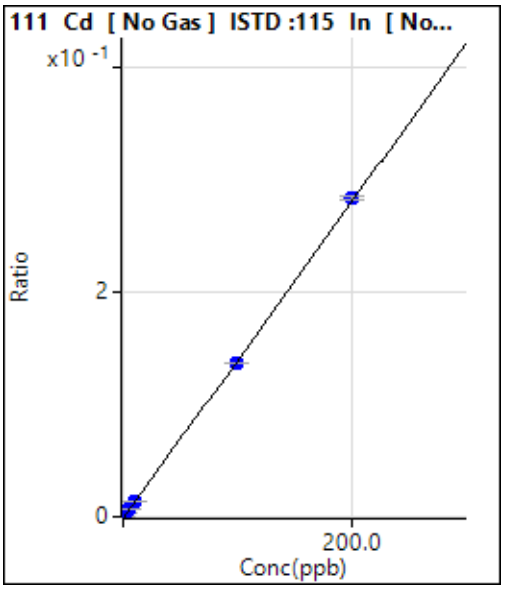
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	416.68	0.0001	P	1.2	
2	☐	2.000	1.900	39800.10	0.0138	P	0.3	-5.0
3	☐	5.000	4.674	95727.99	0.0336	P	2.4	-6.5
4	☐	10.000	9.513	197562.67	0.0683	P	1.2	-4.9
5	☐	100.000	99.693	2021531.33	0.7148	A	1.9	-0.3
6	☐	200.000	200.187	4012051.29	1.4353	A	1.2	0.1

y = 0.0072 * x + 1.4260E-004
R = 1.0000
DL = 0.0007265 ppb
BEC = 0.01989 ppb

Weight: <None>
Min Conc: <None>

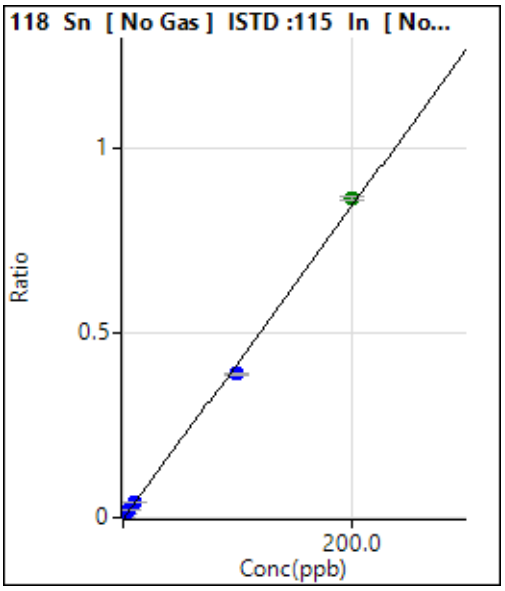


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	43.33	0.0000	P	54.8	
2	☐	2.000	2.030	8316.10	0.0029	P	1.7	1.5
3	☐	5.000	4.825	19384.52	0.0068	P	3.0	-3.5
4	☐	10.000	9.992	40743.09	0.0141	P	1.3	-0.1
5	☐	100.000	97.035	386720.48	0.1367	P	1.0	-3.0
6	☐	200.000	201.487	793644.65	0.2839	P	0.7	0.7

y = 0.0014 * x + 1.4904E-005
R = 0.9998
DL = 0.0174 ppb
BEC = 0.01058 ppb

Weight: <None>
Min Conc: <None>

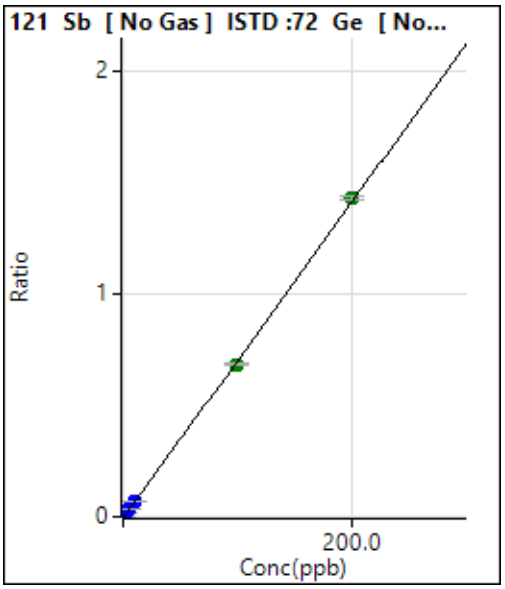
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	983.39	0.0003	P	9.8	
2	☐	2.000	1.828	23387.83	0.0081	P	0.5	-8.6
3	☐	5.000	4.585	56257.20	0.0198	P	1.8	-8.3
4	☐	10.000	9.334	115376.86	0.0399	P	0.8	-6.7
5	☐	100.000	91.790	1101466.86	0.3895	P	1.4	-8.2
6	☐	200.000	204.150	2420460.02	0.8659	A	0.9	2.1

y = 0.0042 * x + 3.3650E-004
R = 0.9988
DL = 0.0234 ppb
BEC = 0.07937 ppb

Weight: <None>
Min Conc: <None>

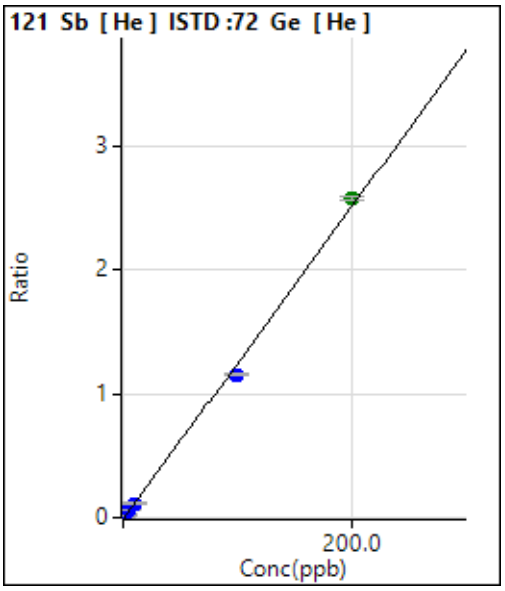


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	583.36	0.0002	P	10.2	
2	☐	2.000	1.850	32767.97	0.0133	P	1.8	-7.5
3	☐	5.000	4.572	78832.98	0.0326	P	1.2	-8.6
4	☐	10.000	9.228	161920.44	0.0656	P	1.0	-7.7
5	☐	100.000	96.548	1695471.64	0.6841	A	0.7	-3.5
6	☐	200.000	201.777	3415485.36	1.4295	A	0.8	0.9

y = 0.0071 * x + 2.3452E-004
R = 0.9998
DL = 0.01009 ppb
BEC = 0.03311 ppb

Weight: <None>
Min Conc: <None>

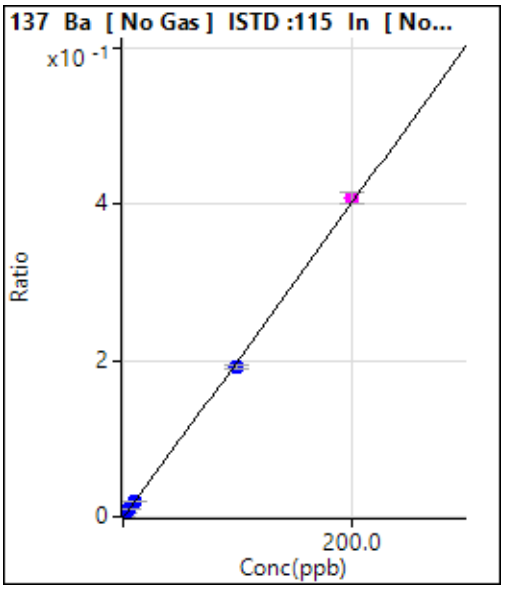
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	233.34	0.0004	P	13.7	
2	☐	2.000	1.801	14391.44	0.0231	P	4.9	-9.9
3	☐	5.000	4.600	35204.18	0.0584	P	1.2	-8.0
4	☐	10.000	9.162	71792.65	0.1159	P	1.6	-8.4
5	☐	100.000	91.291	709511.50	1.1519	P	1.0	-8.7
6	☐	200.000	204.408	1573613.05	2.5788	A	1.8	2.2

y = 0.0126 * x + 3.7586E-004
R = 0.9987
DL = 0.01225 ppb
BEC = 0.0298 ppb

Weight: <None>
Min Conc: <None>

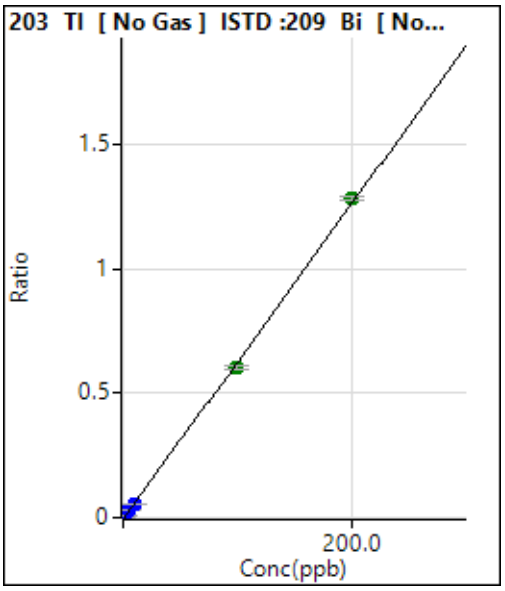


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1166.74	0.0004	P	3.1	
2	☐	2.000	1.963	12602.99	0.0044	P	0.3	-1.8
3	☐	5.000	4.743	28341.26	0.0100	P	2.9	-5.1
4	☐	10.000	9.659	57453.52	0.0199	P	0.7	-3.4
5	☐	100.000	95.346	544711.26	0.1926	P	2.2	-4.7
6	☐	200.000	202.351	1141810.38	0.4084	M	3.1	1.2

y = 0.0020 * x + 3.9936E-004
R = 0.9996
DL = 0.01857 ppb
BEC = 0.1981 ppb

Weight: <None>
Min Conc: <None>

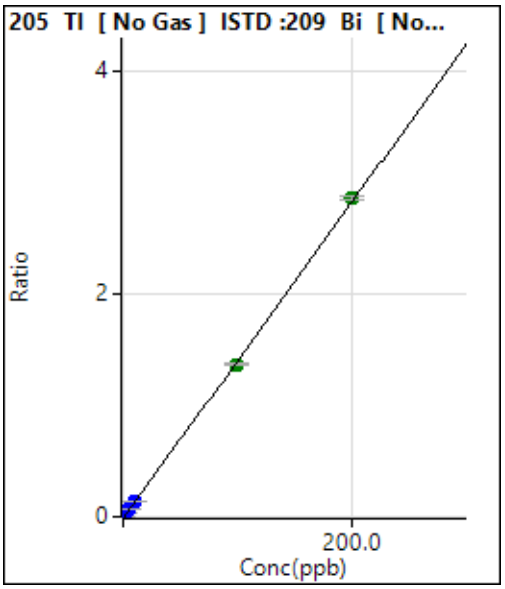
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	203.34	0.0001	P	6.6	
2	☐	2.000	1.724	28068.52	0.0110	P	2.2	-13.8
3	☐	5.000	4.392	68846.23	0.0279	P	1.2	-12.2
4	☐	10.000	8.763	142273.32	0.0556	P	1.0	-12.4
5	☐	100.000	95.222	1507373.78	0.6035	A	1.6	-4.8
6	☐	200.000	202.469	3110244.95	1.2832	A	1.1	1.2

y = 0.0063 * x + 8.0043E-005
R = 0.9996
DL = 0.002487 ppb
BEC = 0.01263 ppb

Weight: <None>
Min Conc: <None>

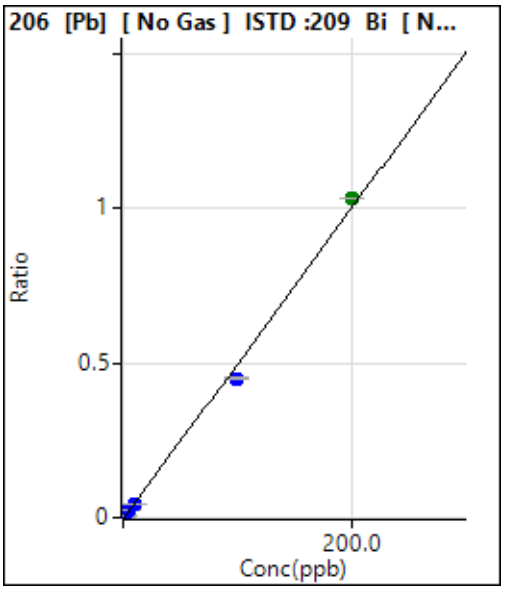


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	450.02	0.0002	P	6.8	
2	☐	2.000	1.835	66865.53	0.0262	P	1.6	-8.3
3	☐	5.000	4.635	162720.48	0.0660	P	0.5	-7.3
4	☐	10.000	9.313	338634.06	0.1324	P	0.8	-6.9
5	☐	100.000	96.357	3416703.39	1.3680	A	0.7	-3.6
6	☐	200.000	201.866	6945935.73	2.8657	A	0.8	0.9

y = 0.0142 * x + 1.7697E-004
R = 0.9998
DL = 0.002527 ppb
BEC = 0.01247 ppb

Weight: <None>
Min Conc: <None>

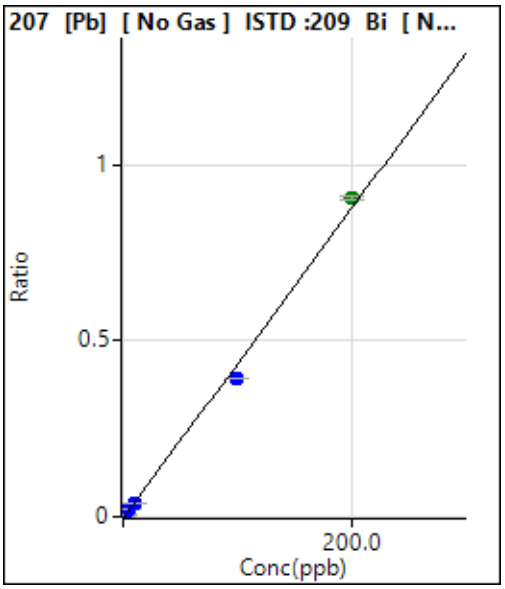
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	793.37	0.0003	P	7.5	
2	☐	2.000	1.780	23639.43	0.0093	P	1.1	-11.0
3	☐	5.000	4.509	56718.89	0.0230	P	1.1	-9.8
4	☐	10.000	9.039	117140.00	0.0458	P	0.6	-9.6
5	☐	100.000	89.589	1126506.13	0.4510	P	0.6	-10.4
6	☐	200.000	205.268	2504000.17	1.0330	A	0.4	2.6

y = 0.0050 * x + 3.1237E-004
R = 0.9982
DL = 0.01405 ppb
BEC = 0.06209 ppb

Weight: <None>
Min Conc: <None>

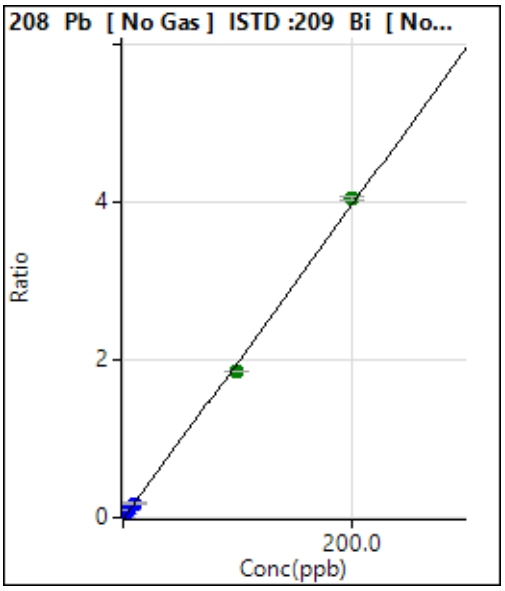


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	560.03	0.0002	P	8.8	
2	☐	2.000	1.768	20413.69	0.0080	P	2.7	-11.6
3	☐	5.000	4.416	48521.46	0.0197	P	2.8	-11.7
4	☐	10.000	9.009	102072.54	0.0399	P	1.1	-9.9
5	☐	100.000	88.810	977484.51	0.3914	P	0.6	-11.2
6	☐	200.000	205.662	2196049.97	0.9060	A	1.1	2.8

y = 0.0044 * x + 2.2022E-004
R = 0.9979
DL = 0.01325 ppb
BEC = 0.05 ppb

Weight: <None>
Min Conc: <None>

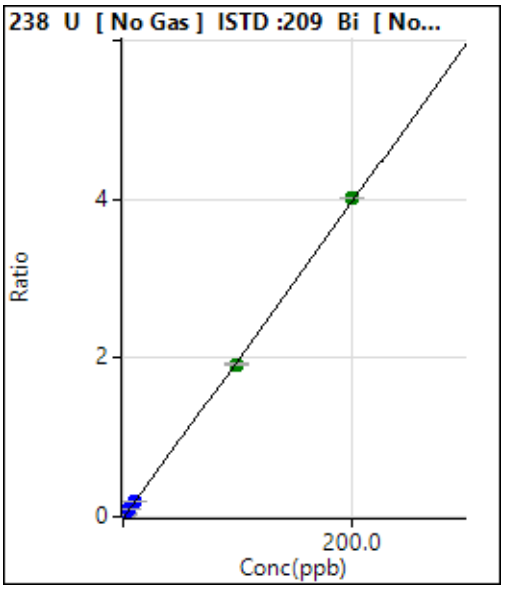
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2800.18	0.0011	P	3.6	
2	☐	2.000	1.807	94505.45	0.0371	P	1.1	-9.7
3	☐	5.000	4.525	224796.60	0.0911	P	0.7	-9.5
4	☐	10.000	9.121	467084.86	0.1826	P	0.5	-8.8
5	☐	100.000	93.151	4631975.71	1.8546	A	0.6	-6.8
6	☐	200.000	203.482	9816383.81	4.0499	A	0.7	1.7

y = 0.0199 * x + 0.0011
R = 0.9992
DL = 0.005977 ppb
BEC = 0.05538 ppb

Weight: <None>
Min Conc: <None>

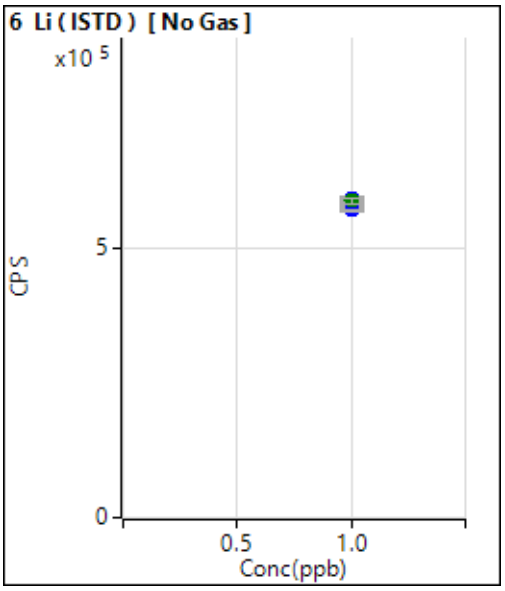


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	480.02	0.0002	P	9.8	
2	☐	2.000	1.811	92534.45	0.0363	P	1.2	-9.4
3	☐	5.000	4.600	226576.96	0.0919	P	0.5	-8.0
4	☐	10.000	9.147	466816.93	0.1825	P	0.6	-8.5
5	☐	100.000	96.548	4806500.87	1.9244	A	0.5	-3.5
6	☐	200.000	201.781	9748105.90	4.0217	A	0.5	0.9

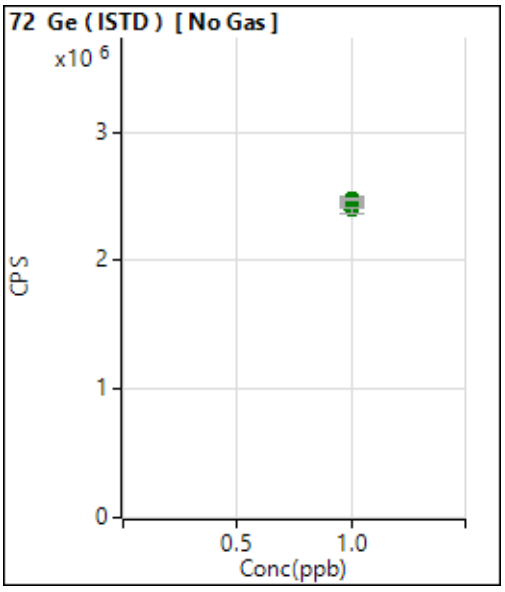
y = 0.0199 * x + 1.8872E-004
R = 0.9998
DL = 0.002781 ppb
BEC = 0.009469 ppb

Weight: <None>
Min Conc: <None>

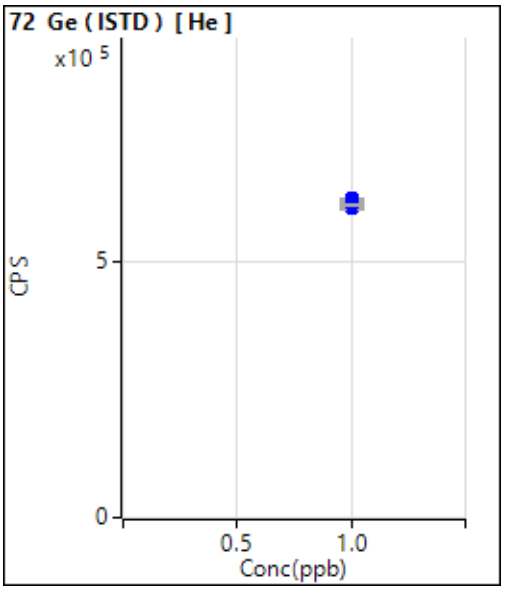
Calibration for 287_ICV.d



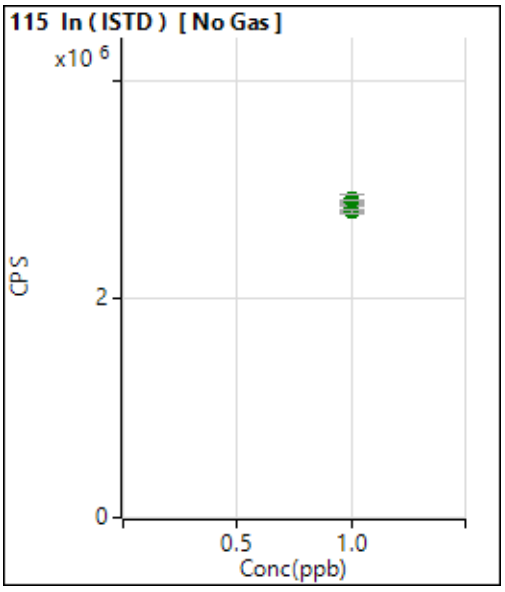
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		592897.16		P	1.2	
2	☐	1.000		590154.32		P	0.9	
3	☐	1.000		572012.55		P	1.2	
4	☐	1.000		581638.40		P	1.4	
5	☐	1.000		569987.32		P	0.8	
6	☐	1.000		587885.55		A	2.3	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2485987.78		A	1.0	
2	☐	1.000		2457326.32		A	0.7	
3	☐	1.000		2416766.58		A	0.8	
4	☐	1.000		2468233.71		A	0.5	
5	☐	1.000		2478199.55		A	0.8	
6	☐	1.000		2389223.30		A	1.5	

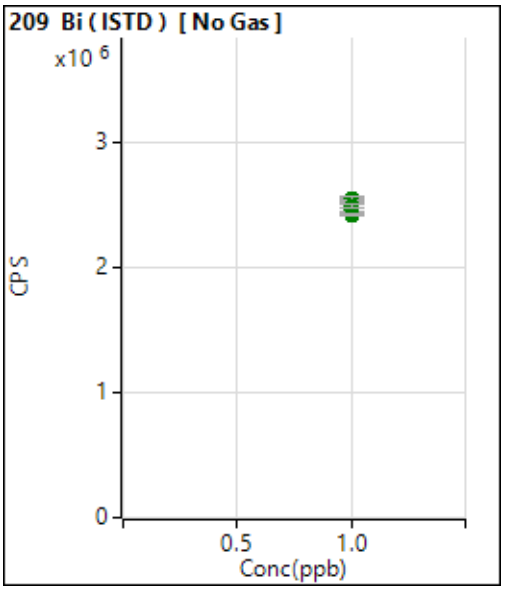


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		621186.74		P	0.7	
2	☐	1.000		623221.85		P	0.6	
3	☐	1.000		602793.38		P	0.6	
4	☐	1.000		619207.89		P	0.1	
5	☐	1.000		615946.84		P	0.7	
6	☐	1.000		610235.45		P	0.7	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2922371.40		A	1.8	
2	☐	1.000		2891930.23		A	1.5	
3	☐	1.000		2845754.13		A	1.9	
4	☐	1.000		2890988.54		A	1.2	
5	☐	1.000		2828446.19		A	1.9	
6	☐	1.000		2795472.58		A	1.1	

Calibration for 287_ICV.d



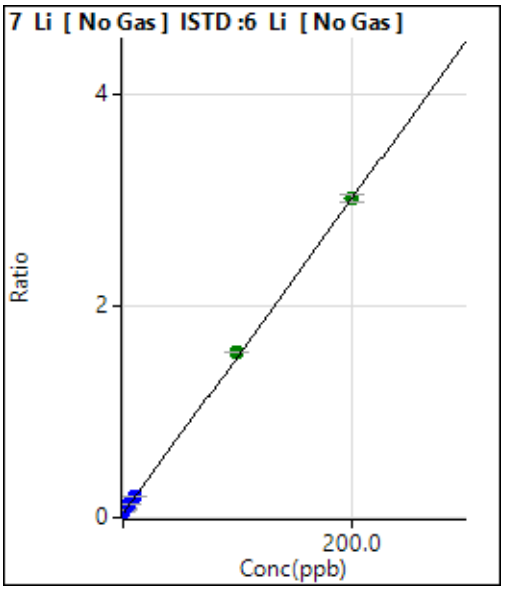
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2541423.61		A	1.3	
2	☐	1.000		2550490.95		A	1.1	
3	☐	1.000		2466566.63		A	1.1	
4	☐	1.000		2558070.07		A	0.8	
5	☐	1.000		2497633.04		A	0.8	
6	☐	1.000		2423929.65		A	0.9	

Calibration for 166_ICV.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\083022A.b\
Analysis File: 083022A.batch.bin
DA Date-Time: 08/30/2022 22:08:01
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	159CALB.d	CAL BLK	08/30/2022 19:54:04
2	160CALS.d	2/10/200	08/30/2022 19:56:01
3	161CALS.d	5/25/500	08/30/2022 19:57:59
4	162CALS.d	10/50/100	08/30/2022 19:59:56
5	163CALS.d	100/500/10K	08/30/2022 20:01:54
6	164CALS.d	200/1000/20K	08/30/2022 20:03:46

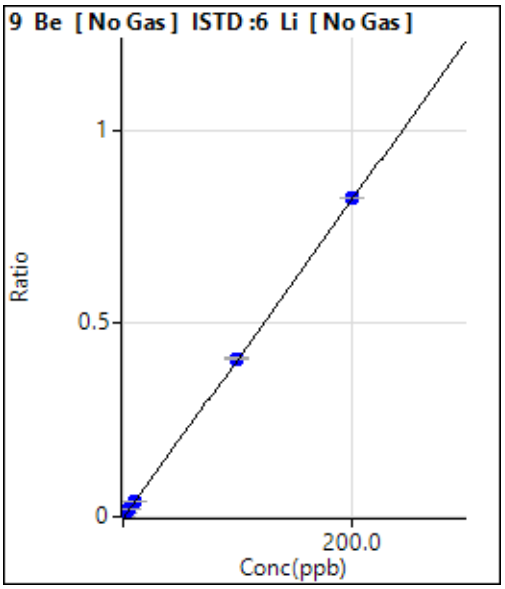
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	44734.13	0.0533	P	3.8	
2	☐	2.000	1.936	68167.57	0.0822	P	1.9	-3.2
3	☐	5.000	4.613	101585.50	0.1221	P	2.6	-7.7
4	☐	10.000	9.505	160402.60	0.1950	P	0.7	-4.9
5	☐	100.000	101.336	1246278.31	1.5638	A	0.4	1.3
6	☐	200.000	199.367	2351360.95	3.0251	A	2.0	-0.3

y = 0.0149 * x + 0.0533
R = 1.0000
DL = 0.4034 ppb
BEC = 3.579 ppb

Weight: <None>
Min Conc: <None>

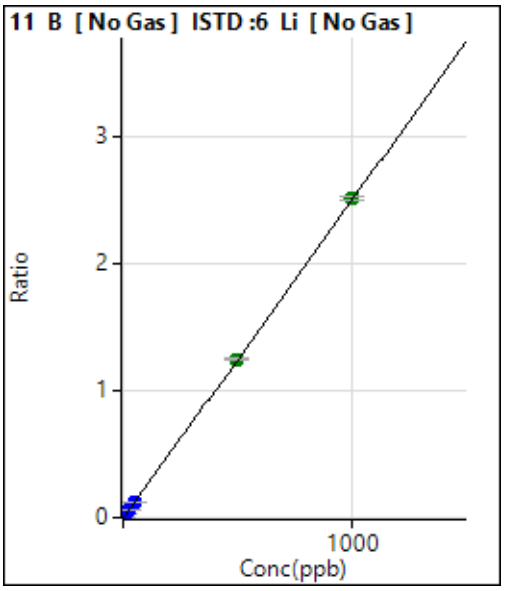


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3.33	0.0000	P	86.6	
2	☐	2.000	1.877	6414.85	0.0077	P	2.9	-6.2
3	☐	5.000	4.714	16156.01	0.0194	P	4.4	-5.7
4	☐	10.000	9.619	32597.74	0.0396	P	1.0	-3.8
5	☐	100.000	99.199	325679.31	0.4087	P	1.2	-0.8
6	☐	200.000	200.428	641686.51	0.8258	P	0.6	0.2

y = 0.0041 * x + 3.9144E-006
R = 1.0000
DL = 0.002468 ppb
BEC = 0.0009501 ppb

Weight: <None>
Min Conc: <None>

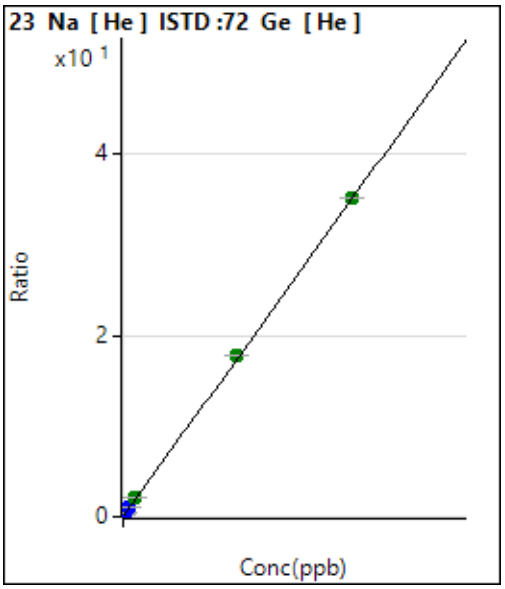
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5409.43	0.0065	P	5.9	
2	☐	10.000	8.809	23678.40	0.0285	P	0.9	-11.9
3	☐	25.000	22.034	51351.89	0.0617	P	3.1	-11.9
4	☐	50.000	45.486	99157.60	0.1206	P	1.0	-9.0
5	☐	500.000	496.044	996823.97	1.2509	A	1.9	-0.8
6	☐	1000.000	1002.290	1958750.03	2.5210	A	1.3	0.2

y = 0.0025 * x + 0.0065
R = 1.0000
DL = 0.4545 ppb
BEC = 2.571 ppb

Weight: <None>
Min Conc: <None>

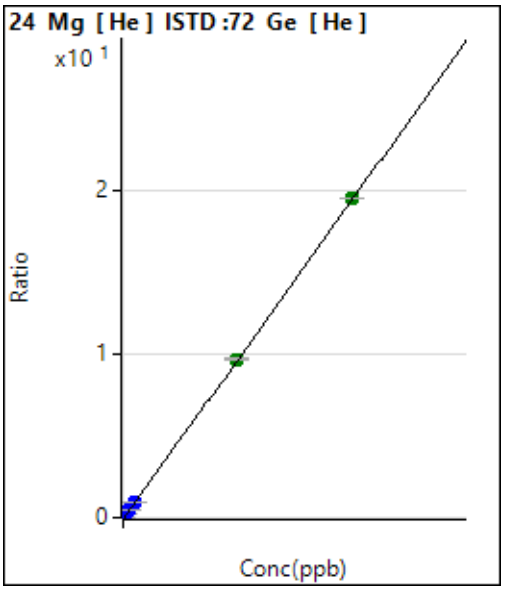


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	108452.89	0.1842	P	2.6	
2	☐	200.000	186.453	304339.66	0.5108	P	0.7	-6.8
3	☐	500.000	468.267	596283.25	1.0045	P	1.0	-6.3
4	☐	1000.000	1052.542	1181585.32	2.0280	A	1.1	5.3
5	☐	10000.00	10035.18	10532995.88	17.7636	A	0.7	0.4
6	☐	20000.00	19980.71	20242920.11	35.1860	A	0.5	-0.1

y = 0.0018 * x + 0.1842
R = 1.0000
DL = 8.133 ppb
BEC = 105.1 ppb

Weight: <None>
Min Conc: <None>

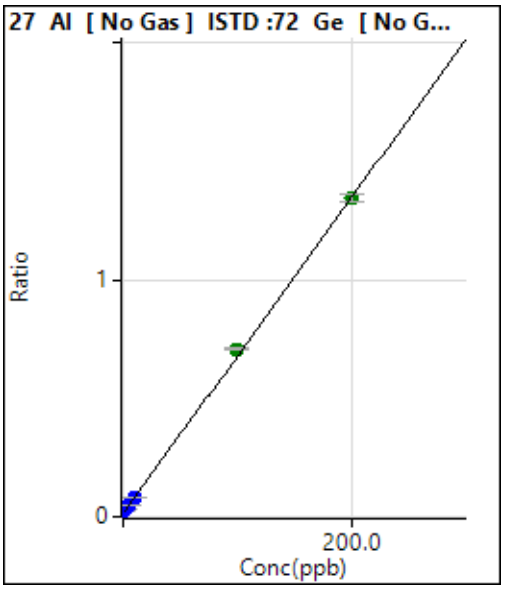
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	360.01	0.0006	P	18.6	
2	☐	200.000	187.564	109131.52	0.1832	P	1.4	-6.2
3	☐	500.000	471.056	272522.93	0.4591	P	0.8	-5.8
4	☐	1000.000	944.338	535842.66	0.9197	P	1.5	-5.6
5	☐	10000.00	9936.769	5734657.62	9.6715	A	0.6	-0.6
6	☐	20000.00	20035.24	11218091.91	19.4998	A	0.5	0.2

y = 9.7324E-004 * x + 6.1211E-004
R = 1.0000
DL = 0.3514 ppb
BEC = 0.6289 ppb

Weight: <None>
Min Conc: <None>

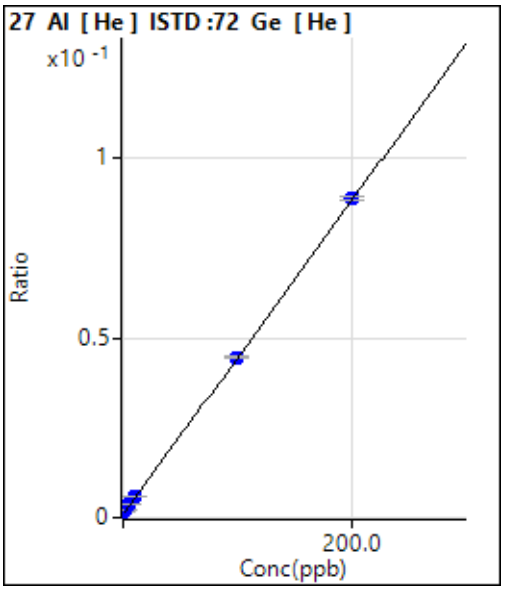


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	48923.29	0.0205	P	0.6	
2	☐	2.000	2.083	82350.16	0.0344	P	2.4	4.1
3	☐	5.000	4.619	122051.87	0.0513	P	1.8	-7.6
4	☐	10.000	9.058	194128.02	0.0809	P	0.9	-9.4
5	☐	100.000	102.871	1651563.41	0.7066	A	0.8	2.9
6	☐	200.000	198.620	3105294.64	1.3451	A	2.0	-0.7

y = 0.0067 * x + 0.0205
R = 0.9998
DL = 0.05845 ppb
BEC = 3.073 ppb

Weight: <None>
Min Conc: <None>

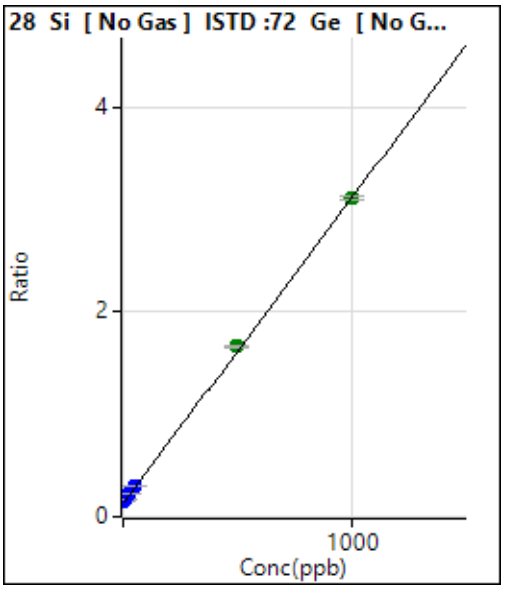
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	803.37	0.0014	P	0.9	
2	☐	2.000	2.027	1340.09	0.0022	P	2.4	1.3
3	☐	5.000	5.079	2126.87	0.0036	P	2.9	1.6
4	☐	10.000	10.227	3397.14	0.0058	P	3.8	2.3
5	☐	100.000	98.956	26442.12	0.0446	P	1.0	-1.0
6	☐	200.000	200.509	51174.25	0.0890	P	1.2	0.3

y = 4.3685E-004 * x + 0.0014
R = 1.0000
DL = 0.08698 ppb
BEC = 3.122 ppb

Weight: <None>
Min Conc: <None>

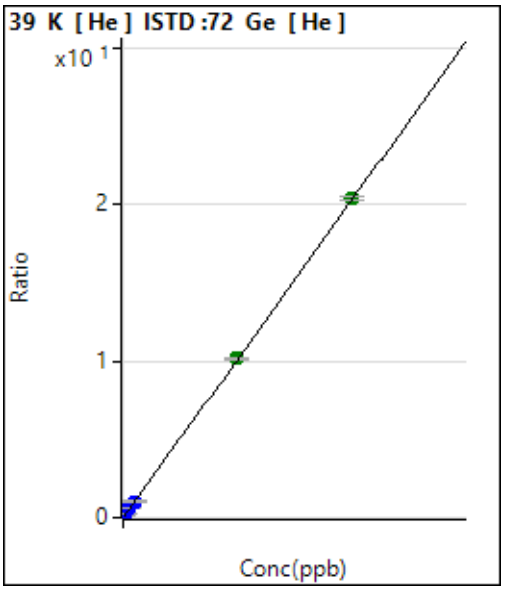


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	344820.27	0.1444	P	0.0	
2	☐	10.000	10.104	418218.77	0.1746	P	0.4	1.0
3	☐	25.000	25.250	522961.01	0.2198	P	2.5	1.0
4	☐	50.000	50.904	711230.07	0.2964	P	1.1	1.8
5	☐	500.000	509.609	3893227.44	1.6656	A	1.0	1.9
6	☐	1000.000	995.143	7190538.64	3.1148	A	1.6	-0.5

y = 0.0030 * x + 0.1444
R = 0.9999
DL = 0.0378 ppb
BEC = 48.39 ppb

Weight: <None>
Min Conc: <None>

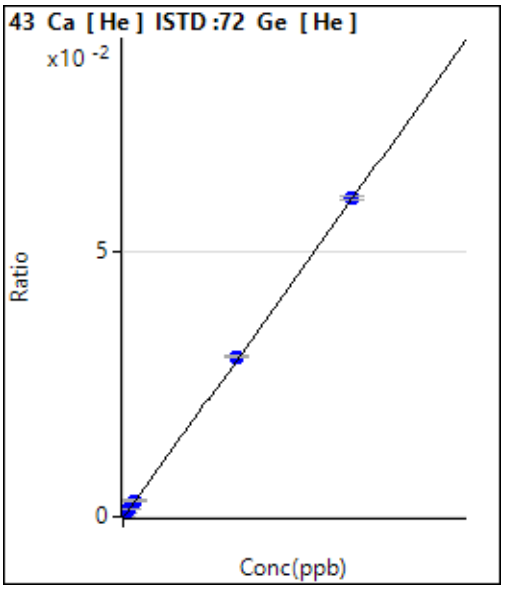
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	54102.79	0.0918	P	0.6	
2	☐	200.000	186.905	167782.79	0.2816	P	0.4	-6.5
3	☐	500.000	466.820	335851.98	0.5658	P	1.1	-6.6
4	☐	1000.000	937.982	608293.79	1.0441	P	0.5	-6.2
5	☐	10000.00	9958.945	6049110.95	10.2019	A	1.1	-0.4
6	☐	20000.00	20024.58	11747968.99	20.4203	A	0.7	0.1

y = 0.0010 * x + 0.0918
R = 1.0000
DL = 1.575 ppb
BEC = 90.48 ppb

Weight: <None>
Min Conc: <None>

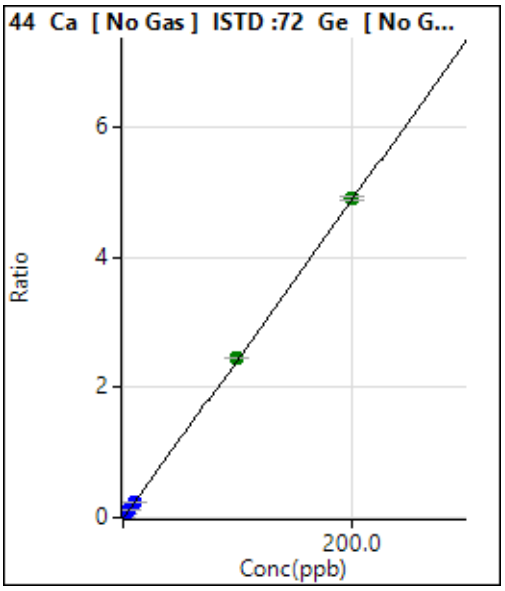


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	23.33	0.0000	P	137.0	
2	☐	200.000	240.360	453.35	0.0008	P	29.4	20.2
3	☐	500.000	456.387	836.71	0.0014	P	4.6	-8.7
4	☐	1000.000	1006.498	1783.48	0.0031	P	2.8	0.6
5	☐	10000.00	10007.79	17841.75	0.0301	P	1.2	0.1
6	☐	20000.00	19996.46	34567.05	0.0601	P	0.8	0.0

y = 3.0028E-006 * x + 3.9189E-005
R = 1.0000
DL = 53.63 ppb
BEC = 13.05 ppb

Weight: <None>
Min Conc: <None>

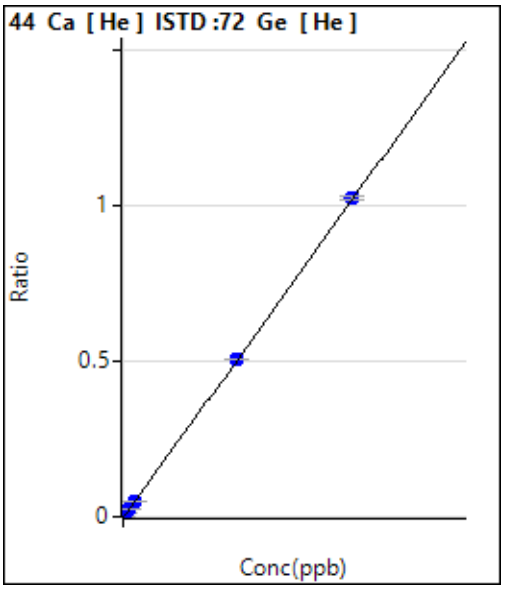
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	24228.26	0.0101	P	0.3	
2	☐	2.000	1.836	131947.75	0.0551	P	1.7	-8.2
3	☐	5.000	4.690	297349.81	0.1250	P	2.9	-6.2
4	☐	10.000	9.305	571033.29	0.2380	P	1.1	-7.0
5	☐	100.000	99.564	5721715.96	2.4479	A	0.5	-0.4
6	☐	200.000	200.262	11342811.91	4.9134	A	1.2	0.1

y = 0.0245 * x + 0.0101
R = 1.0000
DL = 0.004158 ppb
BEC = 0.4145 ppb

Weight: <None>
Min Conc: <None>

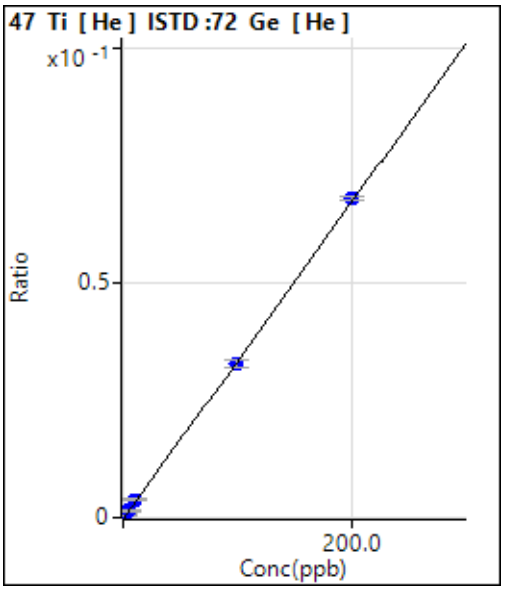


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	466.68	0.0008	P	7.7	
2	☐	200.000	198.706	6511.64	0.0109	P	5.2	-0.6
3	☐	500.000	496.115	15495.64	0.0261	P	5.2	-0.8
4	☐	1000.000	978.629	29545.24	0.0507	P	1.4	-2.1
5	☐	10000.00	9895.854	299774.84	0.5056	P	0.6	-1.0
6	☐	20000.00	20053.25	588899.90	1.0237	P	1.0	0.3

y = 5.1008E-005 * x + 7.9188E-004
R = 1.0000
DL = 3.575 ppb
BEC = 15.52 ppb

Weight: <None>
Min Conc: <None>

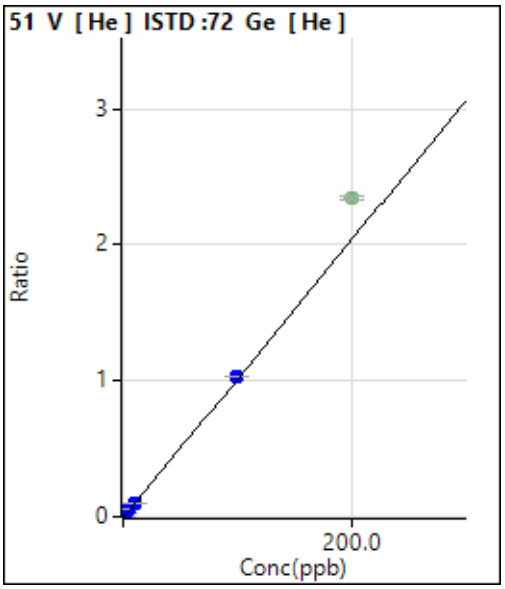
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	0.00	0.0000	P		
2	☐	2.000	1.834	370.01	0.0006	P	28.1	-8.3
3	☐	5.000	4.444	893.38	0.0015	P	14.8	-11.1
4	☐	10.000	11.051	2180.22	0.0037	P	9.3	10.5
5	☐	100.000	97.105	19487.49	0.0329	P	4.3	-2.9
6	☐	200.000	201.410	39219.69	0.0682	P	1.5	0.7

y = 3.3847E-004 * x + 0.0000E+000
R = 0.9998
DL = 0 ppb
BEC = 0 ppb

Weight: <None>
Min Conc: <None>

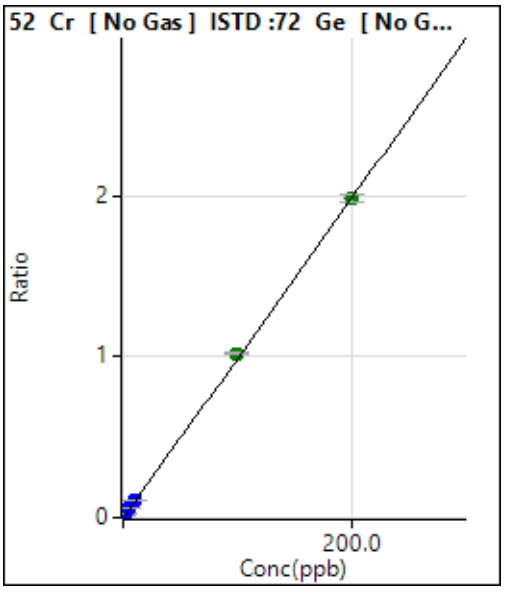


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2444.68	0.0041	P	2.1	
2	☐	2.000	1.962	14432.09	0.0242	P	1.1	-1.9
3	☐	5.000	4.979	32704.50	0.0551	P	2.2	-0.4
4	☐	10.000	9.917	61531.74	0.1056	P	0.7	-0.8
5	☐	100.000	100.010	609185.20	1.0274	P	0.1	0.0
6	☑	200.000		1349762.06	2.3463	A	1.1	

y = 0.0102 * x + 0.0041
R = 1.0000
DL = 0.02563 ppb
BEC = 0.4056 ppb

Weight: <None>
Min Conc: <None>

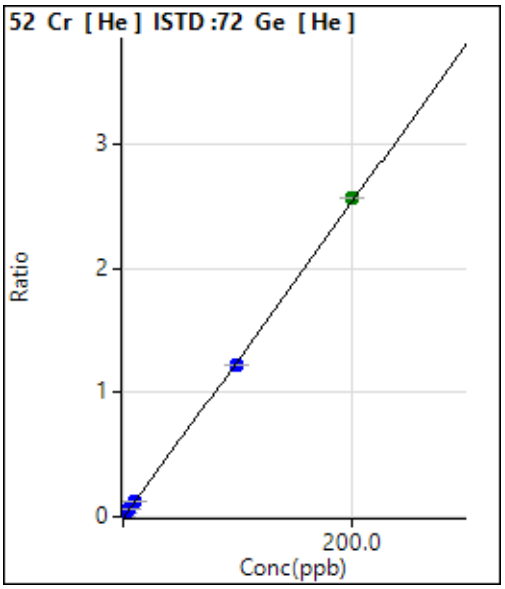
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16063.01	0.0067	P	3.0	
2	☐	2.000	1.878	60875.61	0.0254	P	1.6	-6.1
3	☐	5.000	4.848	130783.86	0.0550	P	2.0	-3.0
4	☐	10.000	9.653	246629.83	0.1028	P	1.3	-3.5
5	☐	100.000	102.044	2389178.30	1.0221	A	1.2	2.0
6	☐	200.000	199.000	4586259.83	1.9868	A	2.2	-0.5

y = 0.0100 * x + 0.0067
R = 0.9999
DL = 0.06061 ppb
BEC = 0.6763 ppb

Weight: <None>
Min Conc: <None>

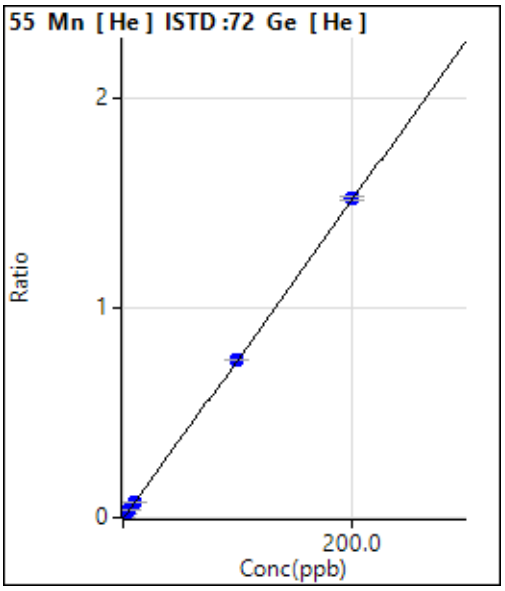


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	553.36	0.0009	P	18.9	
2	☐	2.000	1.881	14798.25	0.0248	P	3.2	-5.9
3	☐	5.000	4.861	37217.66	0.0627	P	1.7	-2.8
4	☐	10.000	9.637	71874.76	0.1234	P	0.9	-3.6
5	☐	100.000	96.153	724829.42	1.2224	P	0.8	-3.8
6	☐	200.000	201.946	1476443.88	2.5664	A	0.6	1.0

y = 0.0127 * x + 9.4085E-004
R = 0.9997
DL = 0.04196 ppb
BEC = 0.07406 ppb

Weight: <None>
Min Conc: <None>

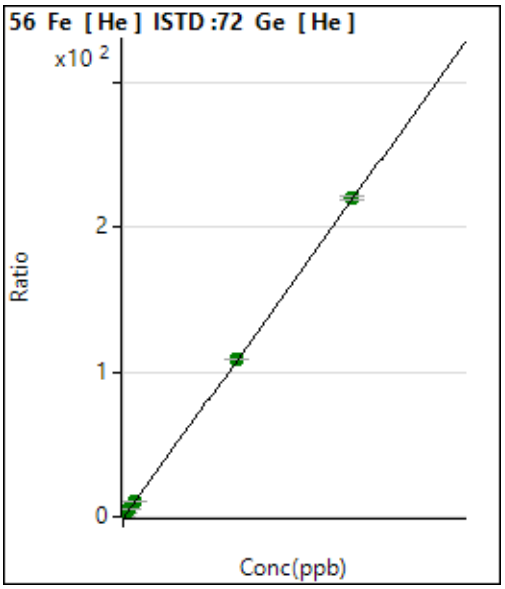
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	486.69	0.0008	P	3.8	
2	☐	2.000	2.012	9593.52	0.0161	P	4.6	0.6
3	☐	5.000	5.045	23223.36	0.0391	P	0.6	0.9
4	☐	10.000	9.991	44670.12	0.0767	P	1.5	-0.1
5	☐	100.000	99.199	446985.03	0.7538	P	0.6	-0.8
6	☐	200.000	200.400	875604.70	1.5220	P	0.6	0.2

y = 0.0076 * x + 8.2602E-004
R = 1.0000
DL = 0.01241 ppb
BEC = 0.1088 ppb

Weight: <None>
Min Conc: <None>

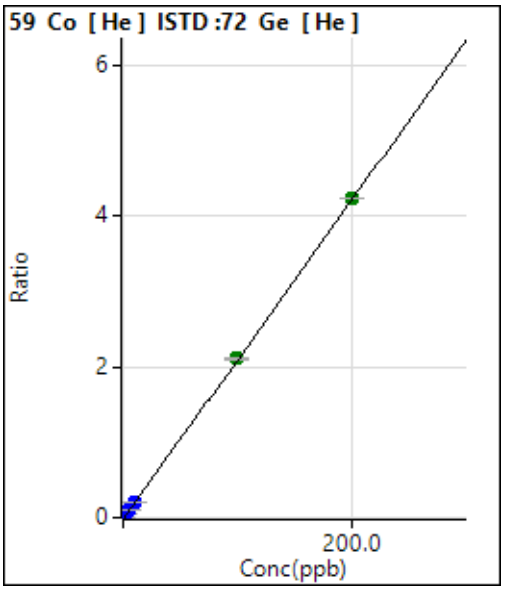


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10944.57	0.0186	P	4.5	
2	☐	200.000	208.562	1376864.62	2.3108	A	1.0	4.3
3	☐	500.000	517.243	3385763.70	5.7034	A	1.0	3.4
4	☐	1000.000	1010.221	6479882.61	11.1216	A	0.8	1.0
5	☐	10000.00	9914.782	64625389.04	108.988	A	0.2	-0.9
6	☐	20000.00	20041.58	126732951.4	220.288	A	0.6	0.2

y = 0.0110 * x + 0.0186
R = 1.0000
DL = 0.2263 ppb
BEC = 1.691 ppb

Weight: <None>
Min Conc: <None>

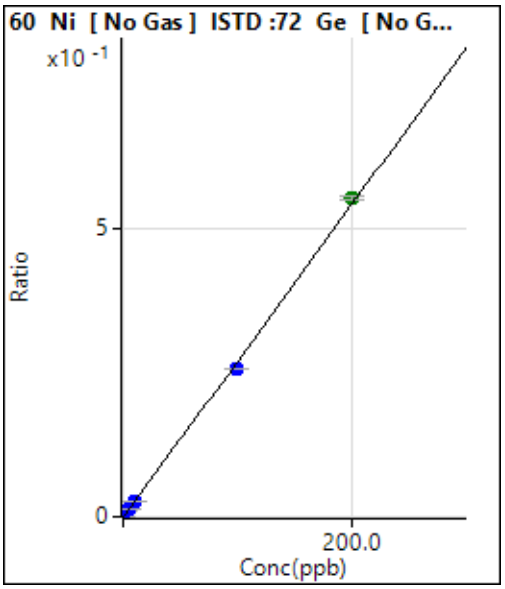
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	30.00	0.0001	P	88.5	
2	☐	2.000	1.856	23447.11	0.0393	P	2.4	-7.2
3	☐	5.000	4.738	59580.16	0.1004	P	0.9	-5.2
4	☐	10.000	9.419	116215.14	0.1995	P	0.4	-5.8
5	☐	100.000	99.750	1252211.02	2.1118	A	0.6	-0.3
6	☐	200.000	200.162	2437931.00	4.2376	A	0.2	0.1

y = 0.0212 * x + 5.0915E-005
R = 1.0000
DL = 0.006386 ppb
BEC = 0.002405 ppb

Weight: <None>
Min Conc: <None>

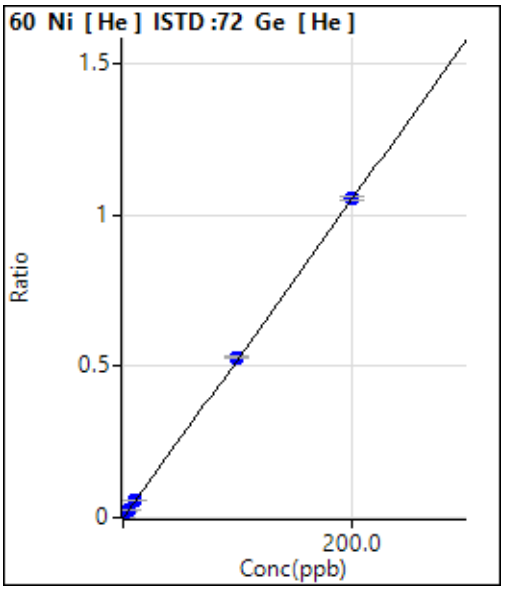


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3600.54	0.0015	P	3.6	
2	☐	2.000	2.758	21547.33	0.0090	P	4.5	37.9
3	☐	5.000	4.220	30851.93	0.0130	P	3.0	-15.6
4	☐	10.000	8.797	60950.05	0.0254	P	2.4	-12.0
5	☐	100.000	93.677	598046.52	0.2559	P	0.4	-6.3
6	☐	200.000	203.234	1277280.06	0.5534	A	1.5	1.6

y = 0.0027 * x + 0.0015
R = 0.9993
DL = 0.05952 ppb
BEC = 0.5554 ppb

Weight: <None>
Min Conc: <None>

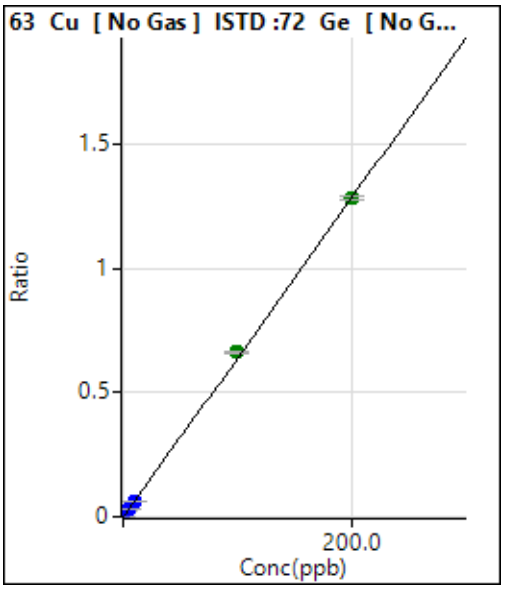
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1743.48	0.0030	P	4.0	
2	☐	2.000	3.013	11221.43	0.0188	P	2.1	50.7
3	☐	5.000	4.665	16343.38	0.0275	P	2.1	-6.7
4	☐	10.000	9.835	31907.71	0.0548	P	1.5	-1.6
5	☐	100.000	100.159	314556.55	0.5305	P	0.7	0.2
6	☐	200.000	199.927	607506.88	1.0560	P	0.7	0.0

y = 0.0053 * x + 0.0030
R = 1.0000
DL = 0.06674 ppb
BEC = 0.5621 ppb

Weight: <None>
Min Conc: <None>

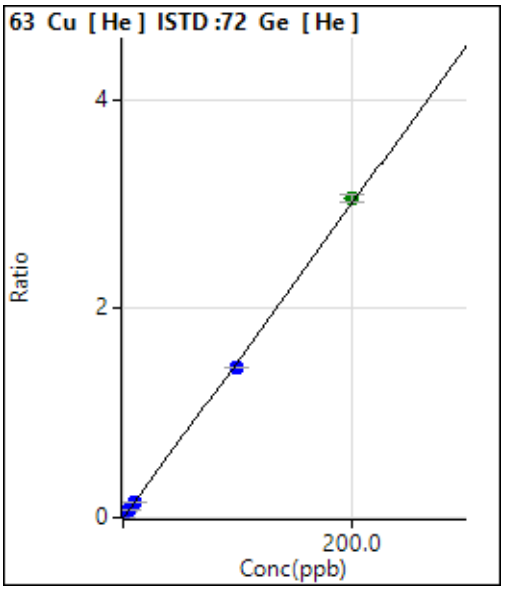


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8769.66	0.0037	P	4.1	
2	☑	2.000		60220.14	0.0251	P	0.6	
3	☐	5.000	4.336	75187.54	0.0316	P	1.2	-13.3
4	☐	10.000	9.171	150549.70	0.0627	P	1.4	-8.3
5	☐	100.000	102.246	1547692.42	0.6622	A	0.3	2.2
6	☐	200.000	198.935	2966152.87	1.2848	A	1.4	-0.5

y = 0.0064 * x + 0.0037
R = 0.9999
DL = 0.07045 ppb
BEC = 0.5704 ppb

Weight: <None>
Min Conc: <None>

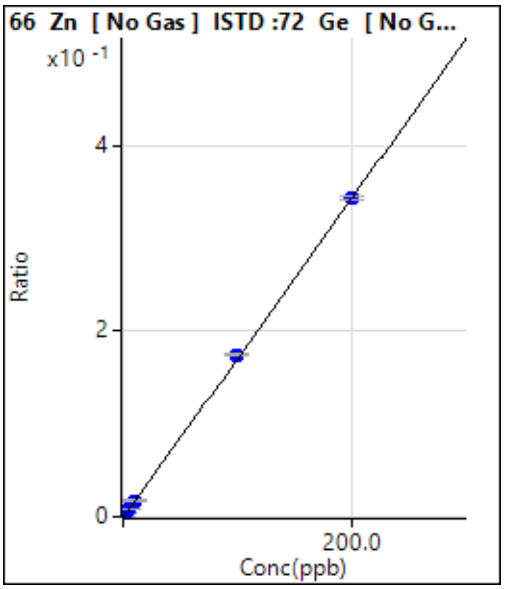
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5214.42	0.0089	P	2.6	
2	☑	2.000		35466.50	0.0595	P	0.5	
3	☐	5.000	4.332	43917.80	0.0740	P	2.0	-13.4
4	☐	10.000	9.201	85762.87	0.1472	P	1.0	-8.0
5	☐	100.000	95.049	852618.79	1.4379	P	0.8	-5.0
6	☐	200.000	202.532	1756948.72	3.0540	A	1.8	1.3

y = 0.0150 * x + 0.0089
R = 0.9996
DL = 0.04662 ppb
BEC = 0.5887 ppb

Weight: <None>
Min Conc: <None>

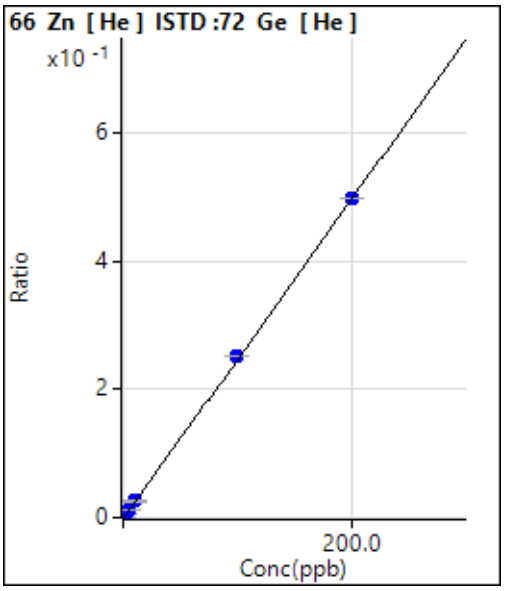


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	950.05	0.0004	P	15.7	
2	☐	2.000	2.008	9229.97	0.0039	P	3.5	0.4
3	☐	5.000	4.987	21367.09	0.0090	P	1.6	-0.3
4	☐	10.000	9.962	42092.17	0.0175	P	2.7	-0.4
5	☐	100.000	101.308	408398.39	0.1747	P	0.5	1.3
6	☐	200.000	199.348	792756.05	0.3434	P	0.9	-0.3

y = 0.0017 * x + 3.9805E-004
R = 1.0000
DL = 0.1092 ppb
BEC = 0.2313 ppb

Weight: <None>
Min Conc: <None>

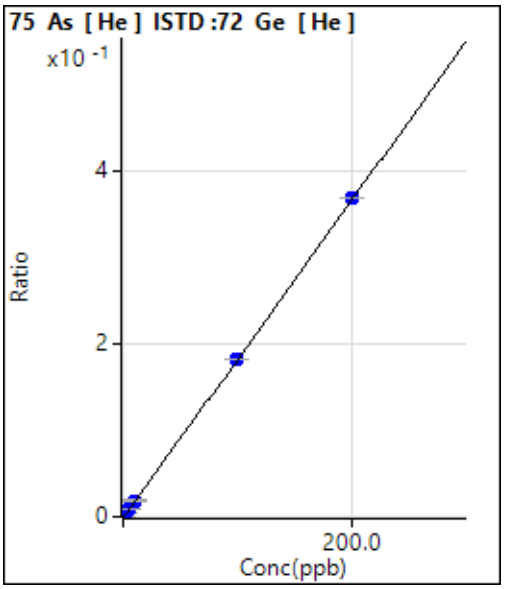
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	333.34	0.0006	P	7.3	
2	☐	2.000	2.207	3613.89	0.0061	P	9.1	10.3
3	☐	5.000	5.011	7749.03	0.0131	P	3.1	0.2
4	☐	10.000	10.177	15108.66	0.0259	P	5.6	1.8
5	☐	100.000	100.785	149277.52	0.2518	P	0.5	0.8
6	☐	200.000	199.596	286523.72	0.4980	P	0.6	-0.2

y = 0.0025 * x + 5.6621E-004
R = 1.0000
DL = 0.05005 ppb
BEC = 0.2272 ppb

Weight: <None>
Min Conc: <None>

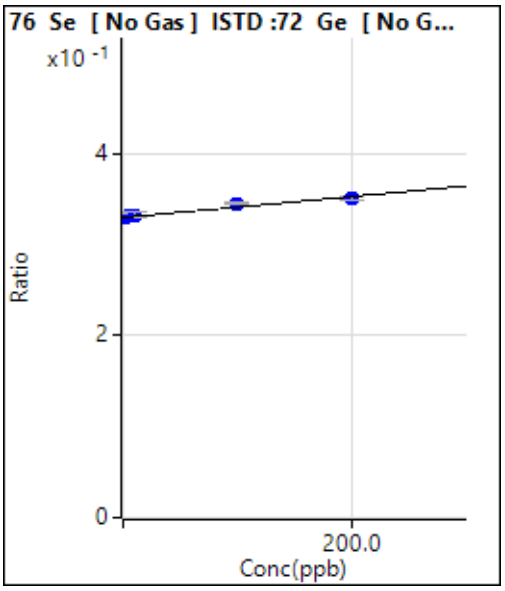


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	127.78	0.0002	P	15.6	
2	☐	2.000	1.889	2202.41	0.0037	P	4.2	-5.5
3	☐	5.000	4.863	5445.57	0.0092	P	1.8	-2.7
4	☐	10.000	10.097	10960.07	0.0188	P	2.4	1.0
5	☐	100.000	99.021	108260.14	0.1826	P	0.6	-1.0
6	☐	200.000	200.489	212541.27	0.3695	P	0.6	0.2

y = 0.0018 * x + 2.1722E-004
R = 1.0000
DL = 0.05508 ppb
BEC = 0.1179 ppb

Weight: <None>
Min Conc: <None>

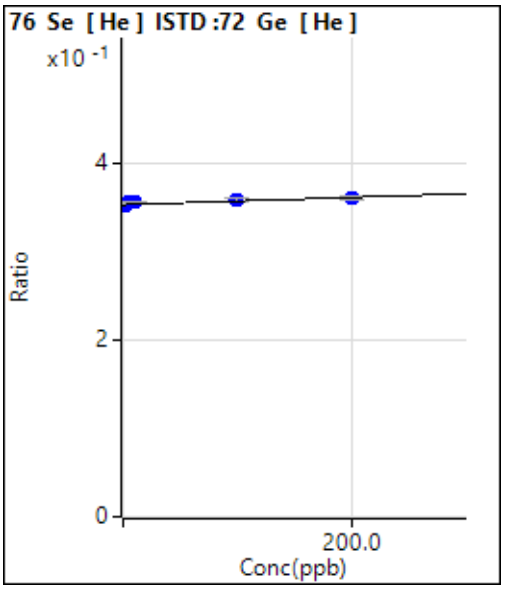
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	786631.68	0.3295	P	0.4	
2	☐	2.000	-1.533	788855.51	0.3293	P	0.4	-176.6
3	☐	5.000	17.130	788802.12	0.3315	P	1.1	242.6
4	☐	10.000	22.093	796793.92	0.3321	P	2.0	120.9
5	☐	100.000	133.778	806499.10	0.3450	P	0.6	33.8
6	☐	200.000	182.238	809446.50	0.3507	P	1.2	-8.9

y = 1.1608E-004 * x + 0.3295
R = 0.9768
DL = 37.15 ppb
BEC = 2839 ppb

Weight: <None>
Min Conc: <None>

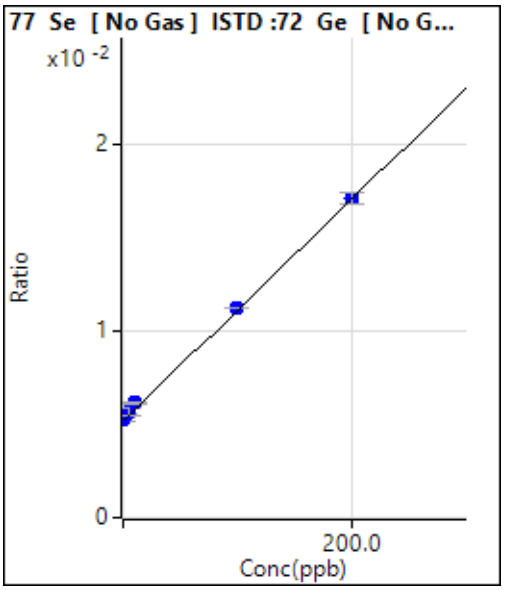


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	208438.16	0.3538	P	0.1	
2	☐	2.000	-20.979	210310.70	0.3530	P	0.5	-1148.
3	☐	5.000	66.332	211719.48	0.3566	P	0.6	1226.6
4	☐	10.000	54.611	207510.89	0.3561	P	0.7	446.1
5	☐	100.000	127.284	212990.97	0.3592	P	1.0	27.3
6	☐	200.000	182.824	207994.86	0.3616	P	1.0	-8.6

y = 4.2160E-005 * x + 0.3538
R = 0.9083
DL = 23.55 ppb
BEC = 8393 ppb

Weight: <None>
Min Conc: <None>

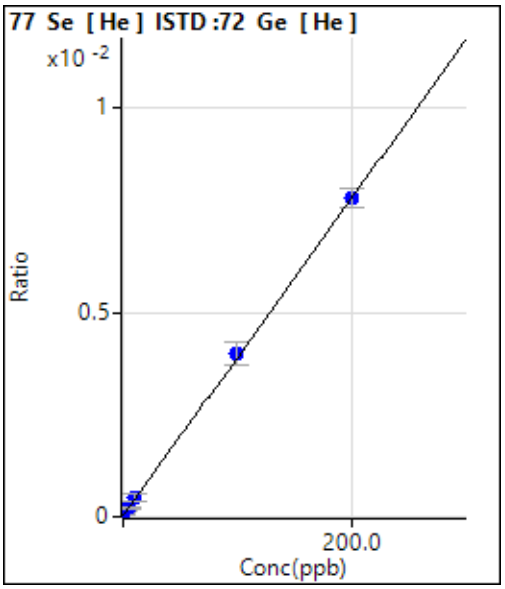
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12579.40	0.0053	P	4.9	
2	☐	2.000	3.561	13126.55	0.0055	P	1.5	78.1
3	☐	5.000	6.939	13517.06	0.0057	P	6.2	38.8
4	☐	10.000	14.555	14711.61	0.0061	P	1.9	45.6
5	☐	100.000	100.508	26229.22	0.0112	P	0.8	0.5
6	☐	200.000	199.454	39434.82	0.0171	P	4.1	-0.3

y = 5.9237E-005 * x + 0.0053
R = 0.9998
DL = 13.04 ppb
BEC = 88.94 ppb

Weight: <None>
Min Conc: <None>

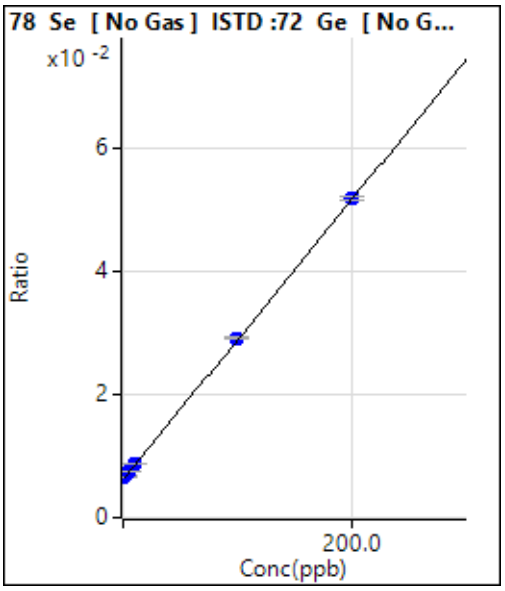


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	36.67	0.0001	P	31.7	
2	☐	2.000	2.717	100.00	0.0002	P	36.3	35.9
3	☐	5.000	4.024	130.00	0.0002	P	33.0	-19.5
4	☐	10.000	10.594	276.67	0.0005	P	31.7	5.9
5	☐	100.000	101.593	2380.26	0.0040	P	13.8	1.6
6	☐	200.000	199.191	4490.84	0.0078	P	6.6	-0.4

y = 3.8886E-005 * x + 6.2278E-005
R = 0.9999
DL = 1.524 ppb
BEC = 1.602 ppb

Weight: <None>
Min Conc: <None>

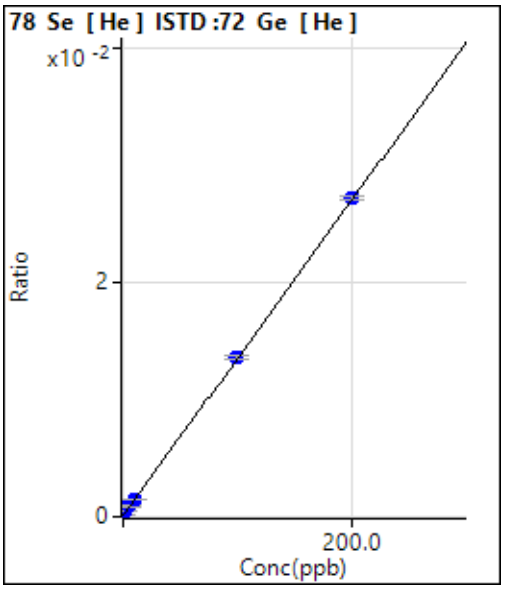
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	15459.12	0.0065	P	1.4	
2	☐	2.000	1.701	16436.98	0.0069	P	4.2	-14.9
3	☐	5.000	4.754	17982.25	0.0076	P	2.7	-4.9
4	☐	10.000	10.272	21150.21	0.0088	P	2.3	2.7
5	☐	100.000	100.090	68403.47	0.0293	P	0.6	0.1
6	☐	200.000	199.951	120044.74	0.0520	P	1.7	0.0

y = 2.2768E-004 * x + 0.0065
R = 1.0000
DL = 1.205 ppb
BEC = 28.44 ppb

Weight: <None>
Min Conc: <None>

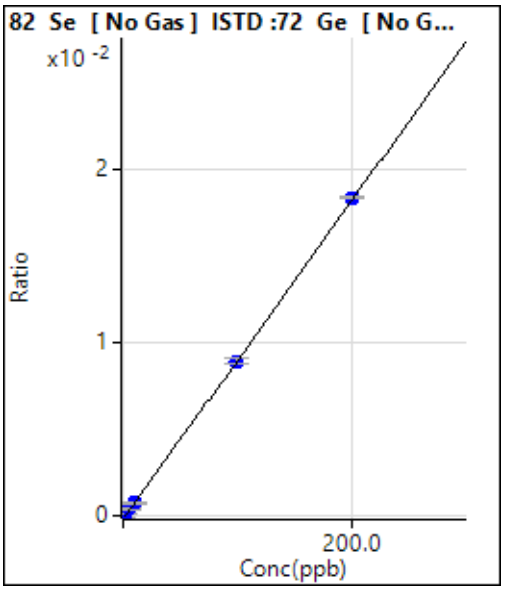


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	132.67	0.0002	P	10.5	
2	☐	2.000	1.806	279.33	0.0005	P	8.0	-9.7
3	☐	5.000	5.037	536.68	0.0009	P	6.4	0.7
4	☐	10.000	9.377	867.36	0.0015	P	6.2	-6.2
5	☐	100.000	99.009	8045.09	0.0136	P	2.7	-1.0
6	☐	200.000	200.528	15675.11	0.0272	P	1.0	0.3

y = 1.3476E-004 * x + 2.2542E-004
R = 1.0000
DL = 0.5278 ppb
BEC = 1.673 ppb

Weight: <None>
Min Conc: <None>

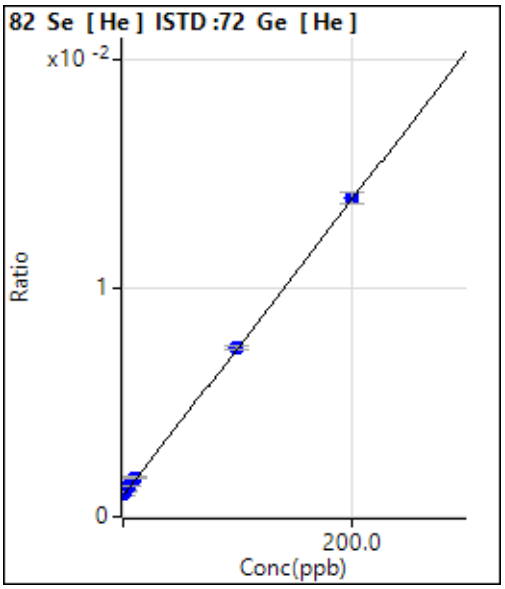
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-339.17	-0.0001	P	-31.1	
2	☐	2.000	1.971	93.73	0.0000	P	26.7	-1.5
3	☐	5.000	5.517	868.79	0.0004	P	14.5	10.3
4	☐	10.000	9.368	1723.94	0.0007	P	18.4	-6.3
5	☐	100.000	97.899	20711.26	0.0089	P	3.7	-2.1
6	☐	200.000	201.069	42358.86	0.0183	P	1.1	0.5

y = 9.1953E-005 * x - 1.4207E-004
R = 0.9999
DL = 1.44 ppb
BEC = -1.545 ppb

Weight: <None>
Min Conc: <None>

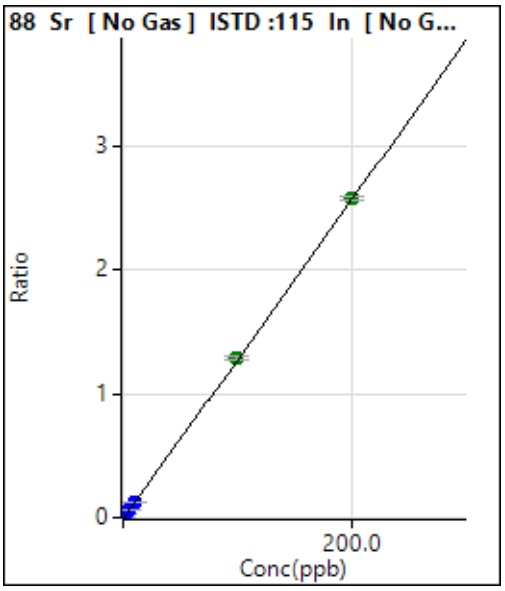


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	576.69	0.0010	P	16.6	
2	☐	2.000	2.265	670.03	0.0011	P	9.2	13.2
3	☐	5.000	5.624	796.71	0.0013	P	4.6	12.5
4	☐	10.000	11.331	996.73	0.0017	P	7.3	13.3
5	☐	100.000	99.208	4387.46	0.0074	P	2.5	-0.8
6	☐	200.000	200.311	8022.53	0.0139	P	3.1	0.2

y = 6.4724E-005 * x + 9.7783E-004
R = 1.0000
DL = 7.511 ppb
BEC = 15.11 ppb

Weight: <None>
Min Conc: <None>

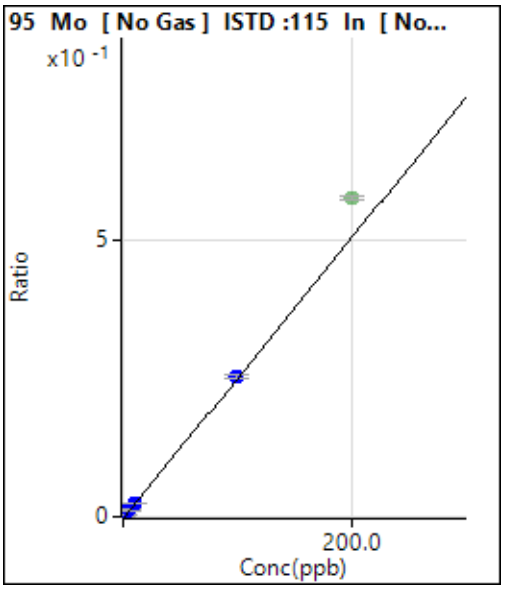
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1980.19	0.0007	P	8.3	
2	☐	2.000	1.888	68726.30	0.0251	P	0.4	-5.6
3	☐	5.000	4.626	166624.37	0.0604	P	0.9	-7.5
4	☐	10.000	9.507	335660.87	0.1235	P	1.1	-4.9
5	☐	100.000	100.035	3447825.36	1.2921	A	1.5	0.0
6	☐	200.000	200.018	6683341.57	2.5828	A	1.7	0.0

y = 0.0129 * x + 7.2876E-004
R = 1.0000
DL = 0.0141 ppb
BEC = 0.05645 ppb

Weight: <None>
Min Conc: <None>

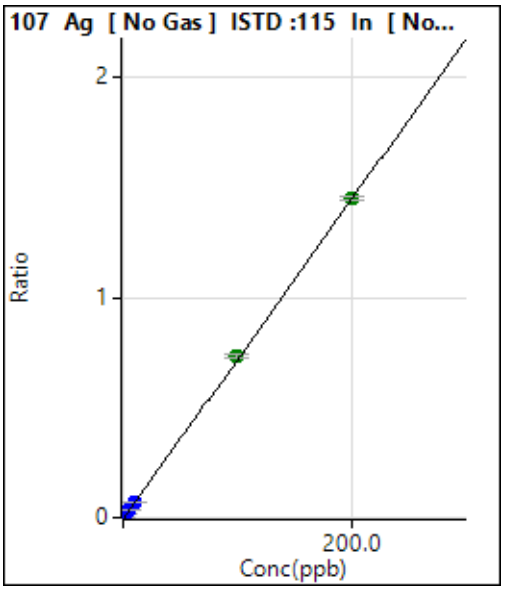


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	46.67	0.0000	P	66.8	
2	☐	2.000	1.928	13440.36	0.0049	P	3.0	-3.6
3	☐	5.000	4.829	33826.58	0.0123	P	3.7	-3.4
4	☐	10.000	9.590	66214.34	0.0244	P	1.7	-4.1
5	☐	100.000	100.051	677565.04	0.2539	P	2.0	0.1
6	☑	200.000		1492615.03	0.5768	A	1.2	

y = 0.0025 * x + 1.7278E-005
R = 1.0000
DL = 0.01364 ppb
BEC = 0.006808 ppb

Weight: <None>
Min Conc: <None>

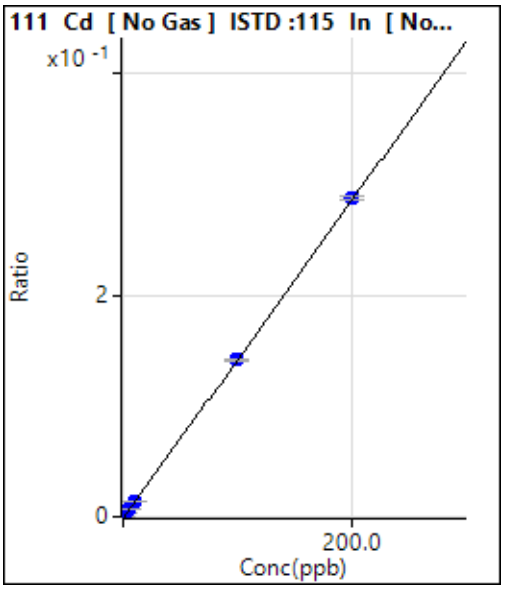
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	660.03	0.0002	P	10.4	
2	☐	2.000	1.867	37827.84	0.0138	P	1.5	-6.7
3	☐	5.000	4.611	93106.71	0.0338	P	1.1	-7.8
4	☐	10.000	9.381	186166.49	0.0685	P	0.5	-6.2
5	☐	100.000	100.873	1958163.72	0.7338	A	1.6	0.9
6	☐	200.000	199.606	3757107.96	1.4519	A	1.4	-0.2

y = 0.0073 * x + 2.4299E-004
R = 1.0000
DL = 0.01044 ppb
BEC = 0.03341 ppb

Weight: <None>
Min Conc: <None>

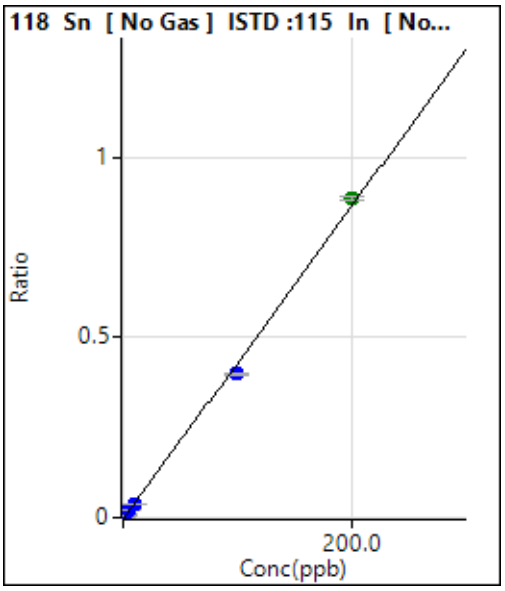


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10.00	0.0000	P	1.5	
2	☐	2.000	1.888	7418.87	0.0027	P	4.8	-5.6
3	☐	5.000	4.800	18987.30	0.0069	P	2.3	-4.0
4	☐	10.000	9.794	38199.00	0.0141	P	2.4	-2.1
5	☐	100.000	98.604	377370.21	0.1414	P	0.6	-1.4
6	☐	200.000	200.714	744876.13	0.2879	P	0.7	0.4

y = 0.0014 * x + 3.6787E-006
R = 1.0000
DL = 0.0001133 ppb
BEC = 0.002565 ppb

Weight: <None>
Min Conc: <None>

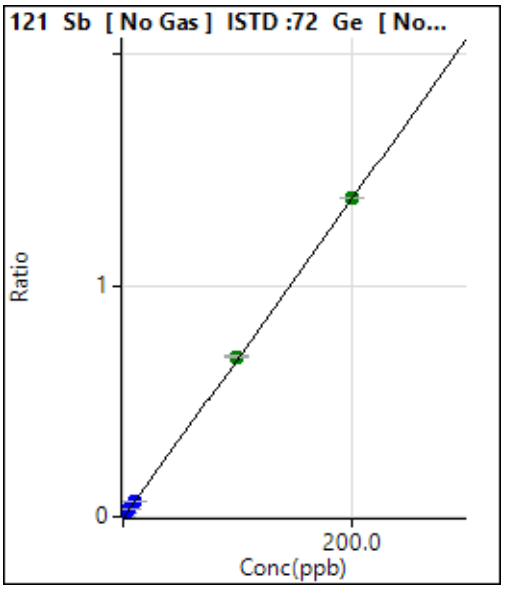
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	656.69	0.0002	P	13.0	
2	☐	2.000	1.790	21968.61	0.0080	P	1.1	-10.5
3	☐	5.000	4.453	54037.82	0.0196	P	1.4	-10.9
4	☐	10.000	9.072	107907.37	0.0397	P	0.3	-9.3
5	☐	100.000	92.084	1069081.76	0.4006	P	1.4	-7.9
6	☐	200.000	204.020	2296310.80	0.8874	A	1.6	2.0

y = 0.0043 * x + 2.4128E-004
R = 0.9989
DL = 0.02163 ppb
BEC = 0.05549 ppb

Weight: <None>
Min Conc: <None>

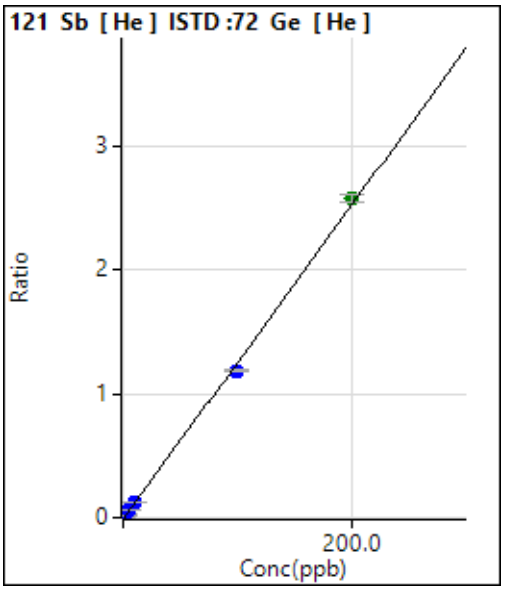


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	383.35	0.0002	P	19.3	
2	☐	2.000	1.819	30435.85	0.0127	P	0.9	-9.1
3	☐	5.000	4.655	76764.01	0.0323	P	3.8	-6.9
4	☐	10.000	9.264	153735.87	0.0641	P	1.5	-7.4
5	☐	100.000	100.390	1618973.41	0.6927	A	1.6	0.4
6	☐	200.000	199.852	3182845.47	1.3788	A	0.5	-0.1

y = 0.0069 * x + 1.6053E-004
R = 1.0000
DL = 0.01348 ppb
BEC = 0.02327 ppb

Weight: <None>
Min Conc: <None>

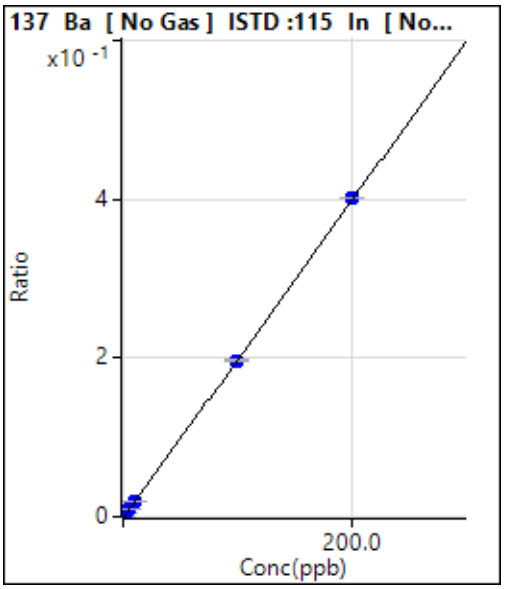
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	180.01	0.0003	P	28.8	
2	☐	2.000	1.845	14147.91	0.0237	P	4.2	-7.7
3	☐	5.000	4.613	34963.46	0.0589	P	0.7	-7.7
4	☐	10.000	9.390	69668.08	0.1196	P	1.2	-6.1
5	☐	100.000	93.401	703652.49	1.1867	P	0.8	-6.6
6	☐	200.000	203.341	1485987.63	2.5832	A	2.1	1.7

y = 0.0127 * x + 3.0508E-004
R = 0.9993
DL = 0.02075 ppb
BEC = 0.02402 ppb

Weight: <None>
Min Conc: <None>

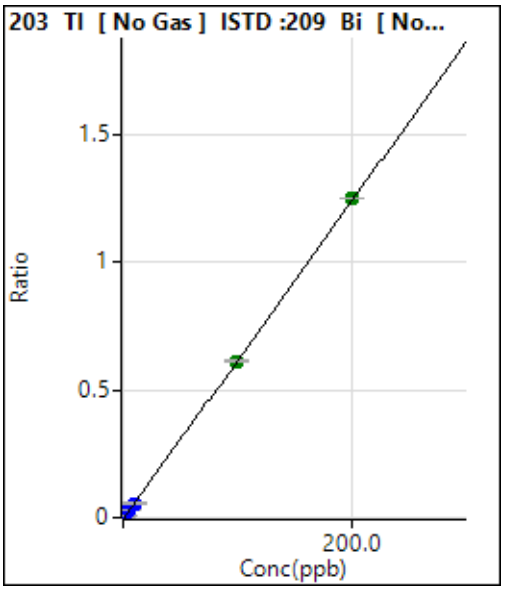


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	236.67	0.0001	P	24.5	
2	☐	2.000	1.908	10687.88	0.0039	P	1.7	-4.6
3	☐	5.000	4.740	26387.13	0.0096	P	2.3	-5.2
4	☐	10.000	9.767	53373.15	0.0196	P	1.6	-2.3
5	☐	100.000	98.533	526380.49	0.1973	P	0.6	-1.5
6	☐	200.000	200.753	1039729.31	0.4018	P	0.5	0.4

y = 0.0020 * x + 8.6845E-005
R = 1.0000
DL = 0.03193 ppb
BEC = 0.0434 ppb

Weight: <None>
Min Conc: <None>

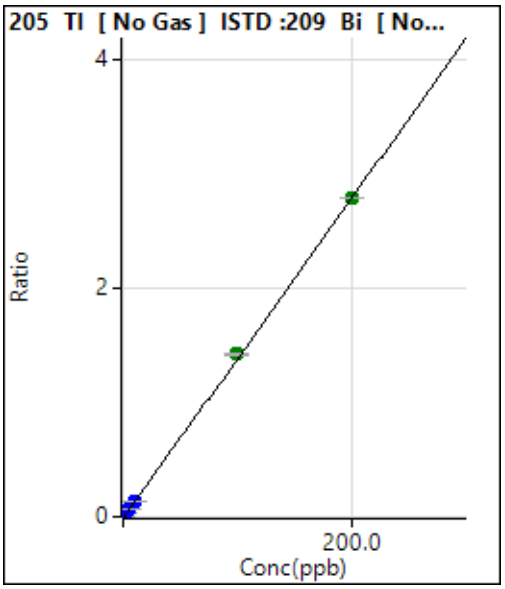
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	40.00	0.0000	P	51.3	
2	☐	2.000	1.758	26612.02	0.0109	P	3.0	-12.1
3	☐	5.000	4.381	67461.87	0.0272	P	1.1	-12.4
4	☐	10.000	9.063	138606.93	0.0564	P	2.6	-9.4
5	☐	100.000	98.375	1446057.06	0.6116	A	1.0	-1.6
6	☐	200.000	200.877	2883971.94	1.2488	A	0.6	0.4

y = 0.0062 * x + 1.6640E-005
R = 1.0000
DL = 0.004123 ppb
BEC = 0.002677 ppb

Weight: <None>
Min Conc: <None>

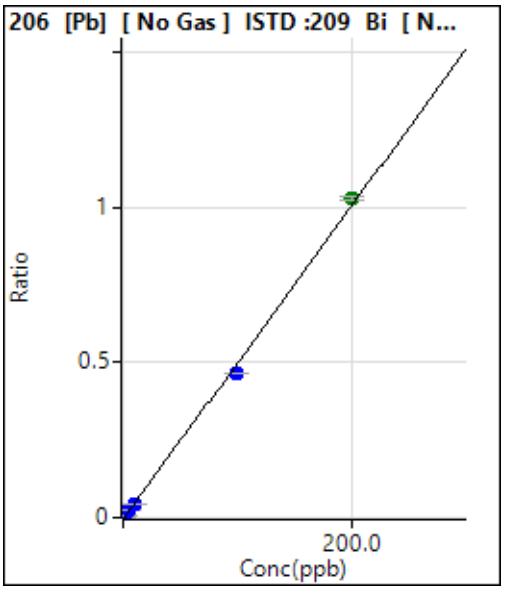


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	63.33	0.0000	P	54.4	
2	☐	2.000	1.865	63699.04	0.0262	P	1.9	-6.7
3	☐	5.000	4.647	161475.22	0.0652	P	1.6	-7.1
4	☐	10.000	9.387	324004.72	0.1317	P	1.2	-6.1
5	☐	100.000	101.634	3371844.01	1.4261	A	1.3	1.6
6	☐	200.000	199.224	6455167.82	2.7954	A	0.5	-0.4

y = 0.0140 * x + 2.6096E-005
R = 0.9999
DL = 0.003033 ppb
BEC = 0.00186 ppb

Weight: <None>
Min Conc: <None>

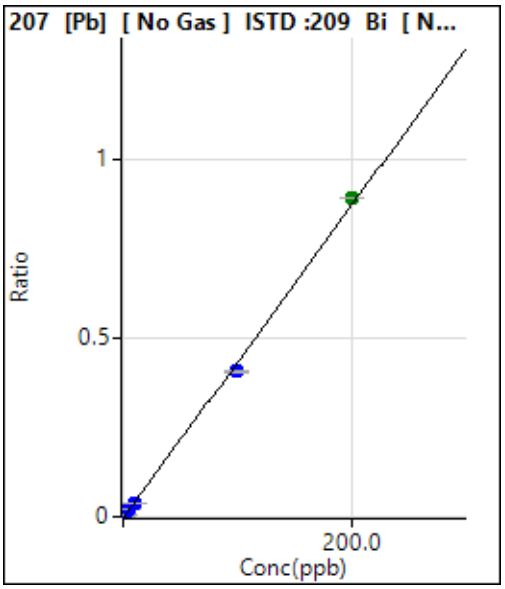
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	303.34	0.0001	P	15.0	
2	☐	2.000	1.795	22343.72	0.0092	P	0.9	-10.3
3	☐	5.000	4.444	55852.01	0.0226	P	0.4	-11.1
4	☐	10.000	9.006	112141.24	0.0456	P	2.6	-9.9
5	☐	100.000	92.528	1104982.90	0.4673	P	0.0	-7.5
6	☐	200.000	203.802	2376639.13	1.0291	A	1.1	1.9

y = 0.0050 * x + 1.2586E-004
R = 0.9991
DL = 0.01123 ppb
BEC = 0.02493 ppb

Weight: <None>
Min Conc: <None>

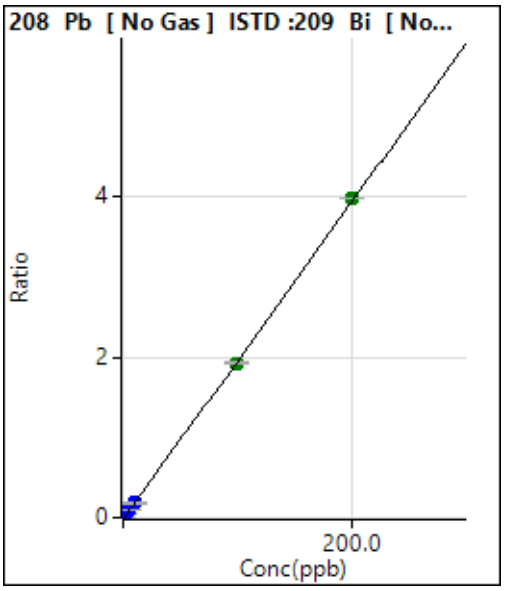


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	210.01	0.0001	P	14.3	
2	☐	2.000	1.738	18731.00	0.0077	P	2.6	-13.1
3	☐	5.000	4.434	48317.23	0.0195	P	1.3	-11.3
4	☐	10.000	9.016	97382.44	0.0396	P	3.4	-9.8
5	☐	100.000	92.733	961084.75	0.4065	P	0.9	-7.3
6	☐	200.000	203.699	2061619.39	0.8927	A	0.1	1.8

y = 0.0044 * x + 8.7127E-005
R = 0.9991
DL = 0.008531 ppb
BEC = 0.01988 ppb

Weight: <None>
Min Conc: <None>

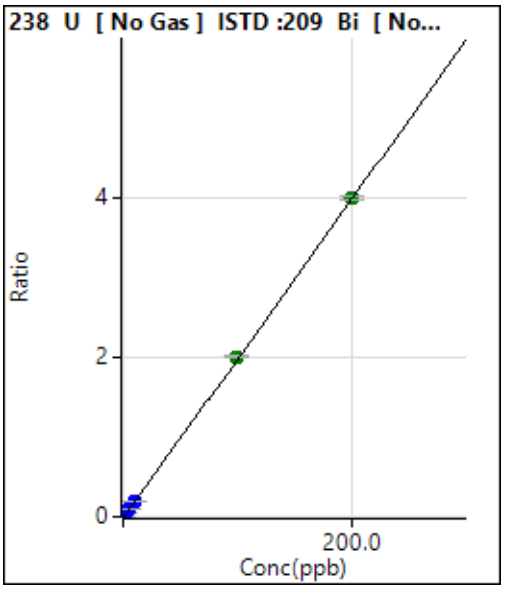
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1016.71	0.0004	P	2.2	
2	☐	2.000	1.821	88575.50	0.0364	P	1.1	-9.0
3	☐	5.000	4.499	221252.86	0.0894	P	0.7	-10.0
4	☐	10.000	9.171	447032.27	0.1818	P	2.6	-8.3
5	☐	100.000	97.328	4551448.71	1.9249	A	0.8	-2.7
6	☐	200.000	201.392	9197262.93	3.9826	A	0.4	0.7

y = 0.0198 * x + 4.2123E-004
R = 0.9999
DL = 0.001415 ppb
BEC = 0.0213 ppb

Weight: <None>
Min Conc: <None>

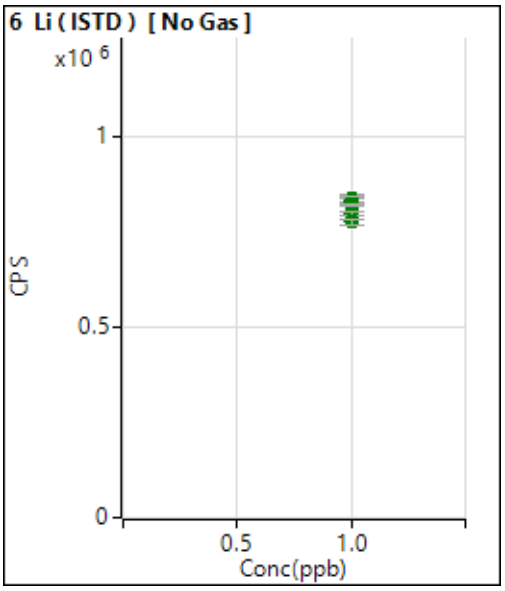


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3.33	0.0000	P	173.2	
2	☐	2.000	1.824	88629.32	0.0364	P	0.7	-8.8
3	☐	5.000	4.491	222079.12	0.0897	P	2.2	-10.2
4	☐	10.000	9.280	455924.11	0.1854	P	1.8	-7.2
5	☐	100.000	100.300	4737348.05	2.0037	A	1.4	0.3
6	☐	200.000	199.901	9221955.69	3.9934	A	0.6	0.0

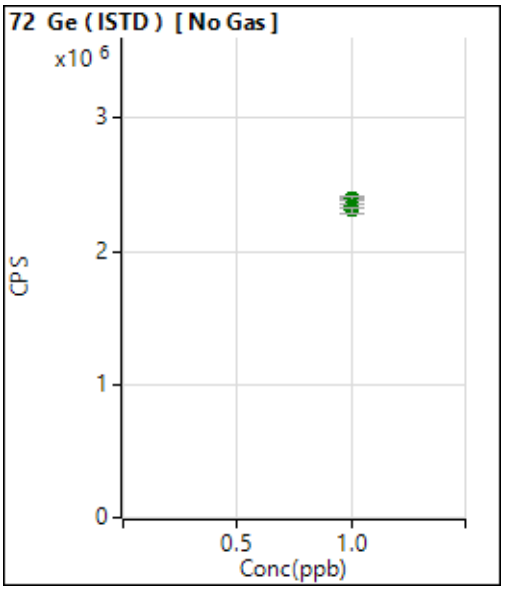
y = 0.0200 * x + 1.3724E-006
R = 1.0000
DL = 0.000357 ppb
BEC = 6.87E-05 ppb

Weight: <None>
Min Conc: <None>

Calibration for 166_ICV.d

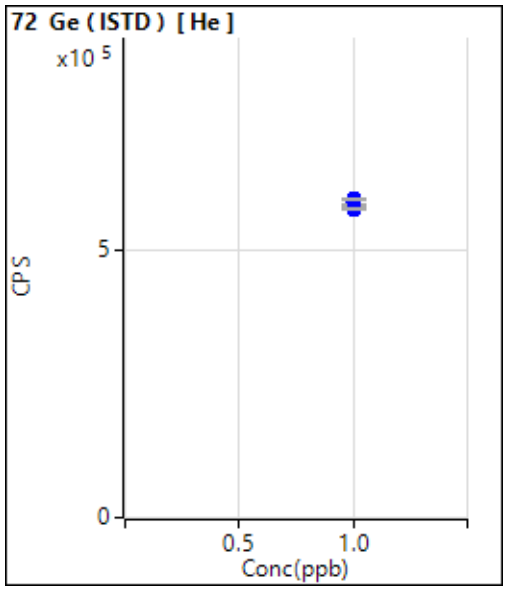


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		839052.94		A	2.6	
2	☐	1.000		829475.28		A	2.1	
3	☐	1.000		832336.79		A	2.6	
4	☐	1.000		822479.99		A	0.8	
5	☐	1.000		796908.73		A	1.5	
6	☐	1.000		777082.83		A	2.1	

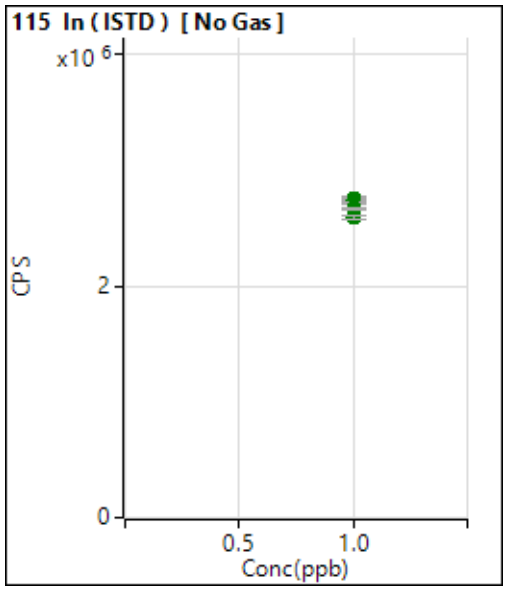


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2387222.36		A	0.4	
2	☐	1.000		2395304.81		A	0.7	
3	☐	1.000		2379728.35		A	1.6	
4	☐	1.000		2399767.88		A	1.1	
5	☐	1.000		2337324.65		A	1.3	
6	☐	1.000		2308506.22		A	1.7	

Calibration for 166_ICV.d

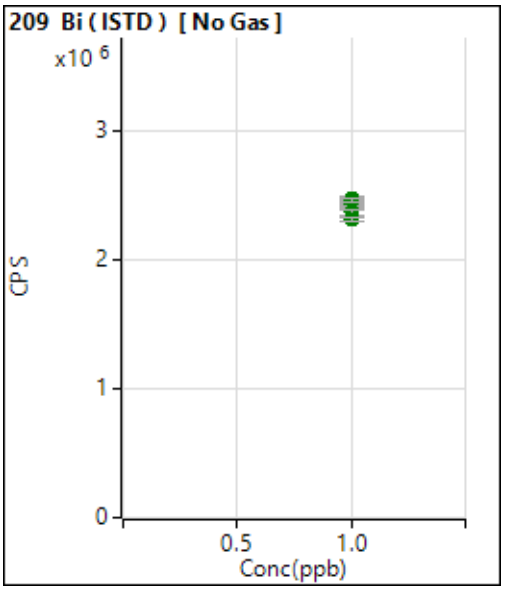


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		589069.89		P	1.4	
2	☐	1.000		595842.33		P	0.3	
3	☐	1.000		593656.89		P	0.5	
4	☐	1.000		582632.71		P	0.7	
5	☐	1.000		592952.67		P	0.4	
6	☐	1.000		575305.88		P	0.8	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2718731.60		A	1.5	
2	☐	1.000		2737850.42		A	2.1	
3	☐	1.000		2756566.87		A	0.4	
4	☐	1.000		2718971.55		A	0.7	
5	☐	1.000		2668537.40		A	0.5	
6	☐	1.000		2587534.48		A	1.0	

Calibration for 166_ICV.d



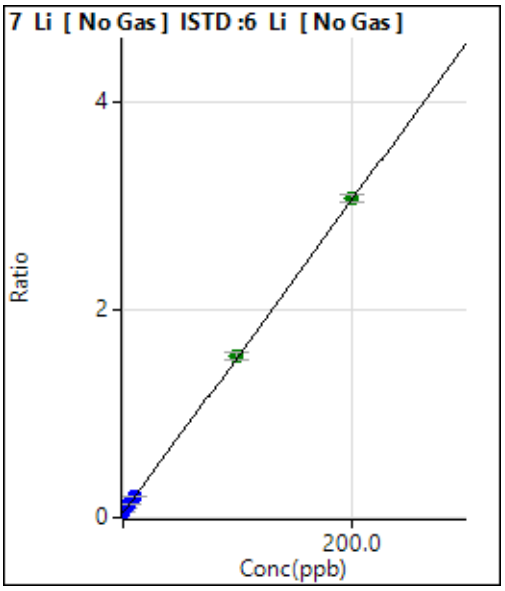
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2414089.44		A	1.6	
2	☐	1.000		2431866.42		A	0.7	
3	☐	1.000		2475668.56		A	0.9	
4	☐	1.000		2459760.43		A	1.2	
5	☐	1.000		2364680.85		A	1.7	
6	☐	1.000		2309296.58		A	0.9	

Calibration for 103_ICV.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\083022A.b\
Analysis File: 083022A.batch.bin
DA Date-Time: 08/30/2022 22:08:01
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	096CALB.d	CAL BLK	08/30/2022 15:38:21
2	097CALS.d	2/10/200	08/30/2022 15:40:20
3	098CALS.d	5/25/500	08/30/2022 15:42:18
4	099CALS.d	10/50/100	08/30/2022 15:44:16
5	100CALS.d	100/500/10K	08/30/2022 15:46:13
6	101CALS.d	200/1000/20K	08/30/2022 15:48:05

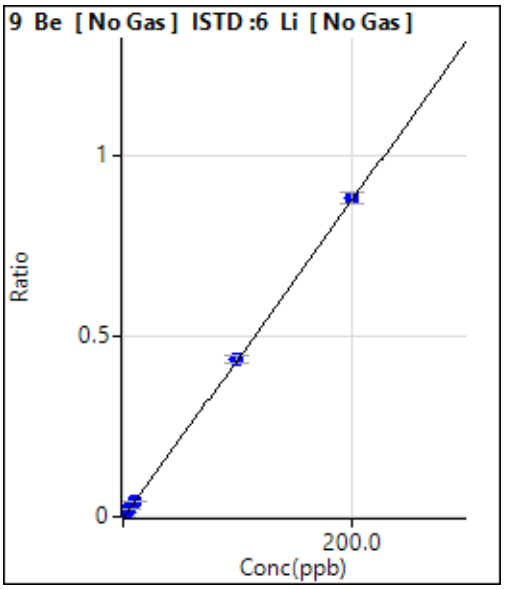
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	39465.21	0.0588	P	3.2	
2	☐	2.000	2.024	58176.55	0.0893	P	2.6	1.2
3	☐	5.000	4.608	88095.55	0.1282	P	3.8	-7.8
4	☐	10.000	9.958	137449.96	0.2088	P	1.1	-0.4
5	☐	100.000	99.619	1068795.51	1.5593	A	4.9	-0.4
6	☐	200.000	200.202	2071583.51	3.0742	A	2.9	0.1

y = 0.0151 * x + 0.0588
R = 1.0000
DL = 0.3737 ppb
BEC = 3.903 ppb

Weight: <None>
Min Conc: <None>

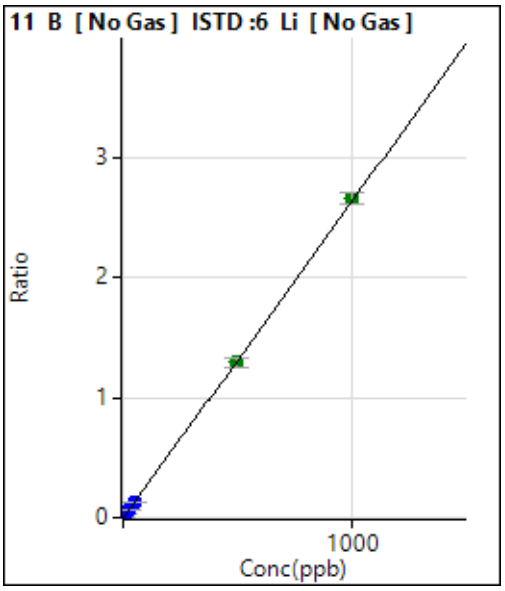


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8.33	0.0000	P	33.4	
2	☐	2.000	2.015	5772.91	0.0089	P	3.5	0.7
3	☐	5.000	4.855	14659.38	0.0213	P	4.1	-2.9
4	☐	10.000	10.219	29549.38	0.0449	P	0.5	2.2
5	☐	100.000	98.694	297018.76	0.4334	P	4.6	-1.3
6	☐	200.000	200.646	593665.60	0.8811	P	3.2	0.3

y = 0.0044 * x + 1.2358E-005
R = 1.0000
DL = 0.002819 ppb
BEC = 0.002814 ppb

Weight: <None>
Min Conc: <None>

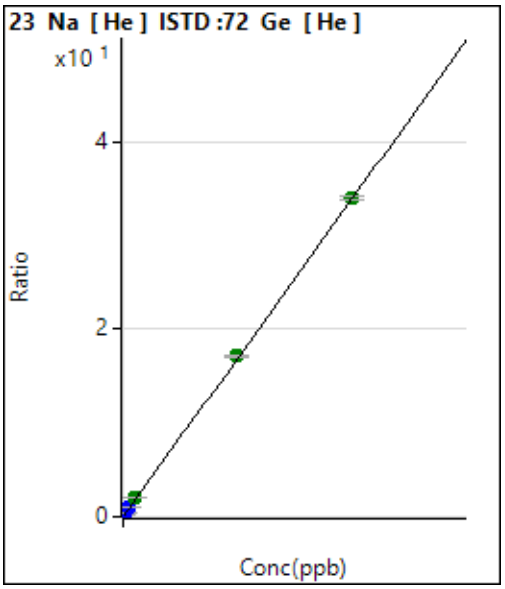
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5212.67	0.0078	P	3.1	
2	☐	10.000	9.408	21214.44	0.0326	P	0.2	-5.9
3	☐	25.000	22.395	45893.17	0.0668	P	2.1	-10.4
4	☐	50.000	47.806	88024.24	0.1337	P	0.9	-4.4
5	☐	500.000	487.747	885792.46	1.2927	A	5.5	-2.5
6	☐	1000.000	1006.307	1791514.35	2.6587	A	3.1	0.6

y = 0.0026 * x + 0.0078
R = 0.9999
DL = 0.2772 ppb
BEC = 2.948 ppb

Weight: <None>
Min Conc: <None>

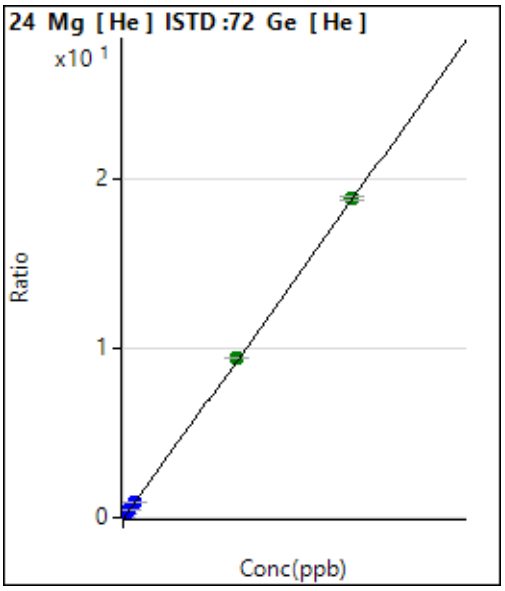


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	115024.53	0.1738	P	1.4	
2	☐	200.000	186.513	327356.61	0.4893	P	1.1	-6.7
3	☐	500.000	473.040	647926.32	0.9740	P	0.0	-5.4
4	☐	1000.000	1062.315	1321021.67	1.9709	A	1.5	6.2
5	☐	10000.00	10019.82	11194732.33	17.1238	A	0.8	0.2
6	☐	20000.00	19987.78	21901411.34	33.9860	A	0.8	-0.1

y = 0.0017 * x + 0.1738
R = 1.0000
DL = 4.451 ppb
BEC = 102.7 ppb

Weight: <None>
Min Conc: <None>

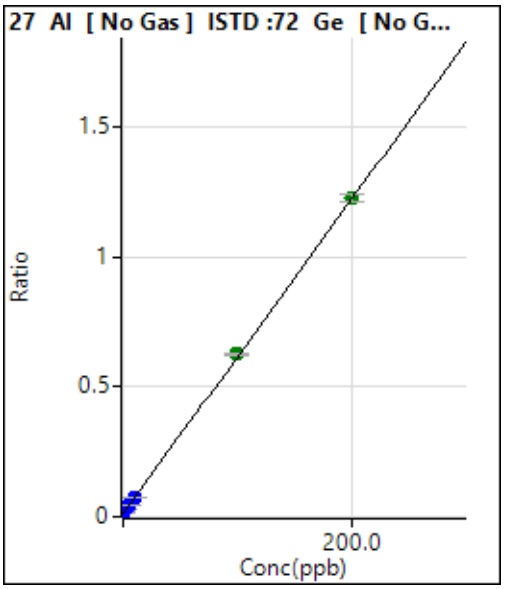
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	423.35	0.0006	P	15.3	
2	☐	200.000	187.238	118521.13	0.1772	P	1.5	-6.4
3	☐	500.000	470.281	295365.44	0.4440	P	0.4	-5.9
4	☐	1000.000	936.890	592485.25	0.8840	P	0.3	-6.3
5	☐	10000.00	9971.886	6146642.41	9.4023	A	0.0	-0.3
6	☐	20000.00	20018.08	12163021.90	18.8740	A	1.0	0.1

y = 9.4282E-004 * x + 6.3961E-004
R = 1.0000
DL = 0.3123 ppb
BEC = 0.6784 ppb

Weight: <None>
Min Conc: <None>

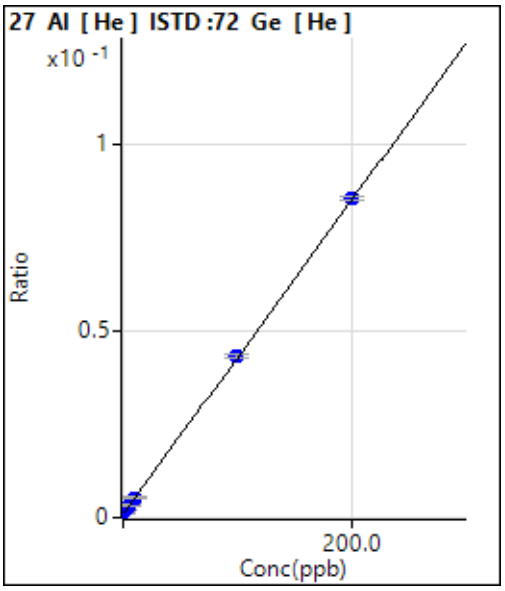


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	47137.03	0.0183	P	2.2	
2	☐	2.000	1.892	76798.18	0.0297	P	2.9	-5.4
3	☐	5.000	4.544	119675.40	0.0457	P	2.1	-9.1
4	☐	10.000	8.904	189856.27	0.0721	P	0.9	-11.0
5	☐	100.000	100.573	1609004.98	0.6262	A	1.1	0.6
6	☐	200.000	199.781	3092891.62	1.2258	A	3.0	-0.1

y = 0.0060 * x + 0.0183
R = 1.0000
DL = 0.1957 ppb
BEC = 3.023 ppb

Weight: <None>
Min Conc: <None>

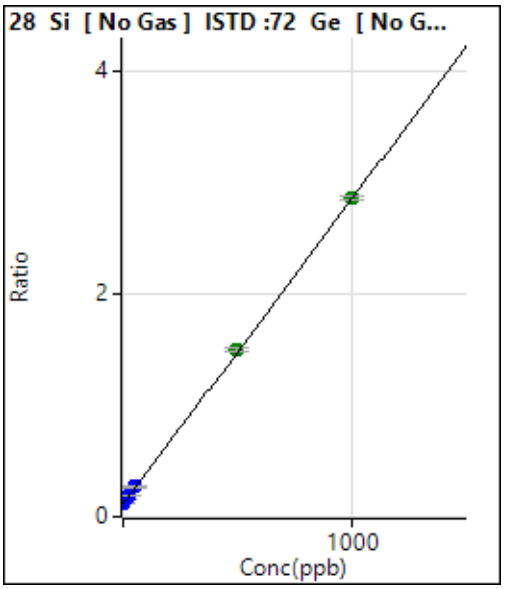
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	900.04	0.0014	P	13.9	
2	☐	2.000	1.493	1330.08	0.0020	P	5.2	-25.3
3	☐	5.000	4.677	2213.54	0.0033	P	8.7	-6.5
4	☐	10.000	9.509	3593.87	0.0054	P	6.9	-4.9
5	☐	100.000	99.652	28309.04	0.0433	P	1.6	-0.3
6	☐	200.000	200.211	55179.51	0.0856	P	1.5	0.1

y = 4.2089E-004 * x + 0.0014
R = 1.0000
DL = 1.343 ppb
BEC = 3.232 ppb

Weight: <None>
Min Conc: <None>

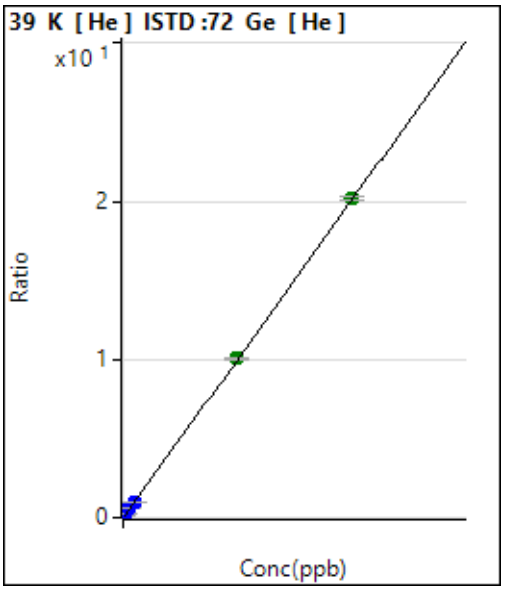


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	325885.94	0.1263	P	0.5	
2	☐	10.000	10.175	398618.44	0.1542	P	2.1	1.7
3	☐	25.000	24.937	509224.86	0.1946	P	1.5	-0.3
4	☐	50.000	53.271	716744.99	0.2722	P	6.5	6.5
5	☐	500.000	501.448	3852188.28	1.4992	A	1.8	0.3
6	☐	1000.000	999.112	7221609.89	2.8617	A	1.7	-0.1

y = 0.0027 * x + 0.1263
R = 1.0000
DL = 0.7351 ppb
BEC = 46.13 ppb

Weight: <None>
Min Conc: <None>

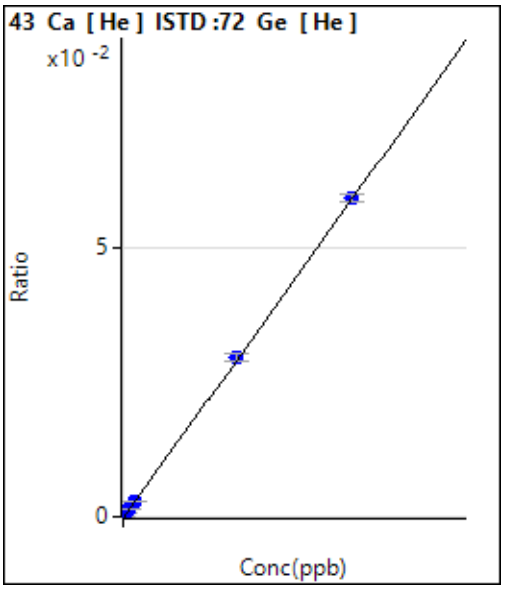
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	53848.32	0.0814	P	1.8	
2	☐	200.000	186.415	179646.76	0.2685	P	1.6	-6.8
3	☐	500.000	474.821	371269.36	0.5581	P	0.2	-5.0
4	☐	1000.000	936.834	685029.37	1.0220	P	0.8	-6.3
5	☐	10000.00	9961.886	6592571.15	10.0839	A	1.2	-0.4
6	☐	20000.00	20022.98	13008363.14	20.1861	A	1.0	0.1

y = 0.0010 * x + 0.0814
R = 1.0000
DL = 4.42 ppb
BEC = 81.04 ppb

Weight: <None>
Min Conc: <None>

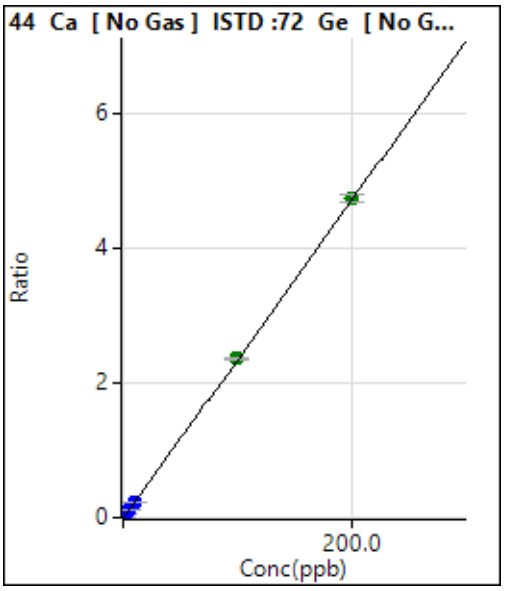


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	34.5	
2	☐	200.000	221.631	456.68	0.0007	P	9.1	10.8
3	☐	500.000	493.128	990.05	0.0015	P	7.2	-1.4
4	☐	1000.000	950.525	1906.83	0.0028	P	3.2	-4.9
5	☐	10000.00	10004.67	19420.64	0.0297	P	4.0	0.0
6	☐	20000.00	20000.09	38250.08	0.0594	P	2.8	0.0

y = 2.9665E-006 * x + 2.5168E-005
R = 1.0000
DL = 8.77 ppb
BEC = 8.484 ppb

Weight: <None>
Min Conc: <None>

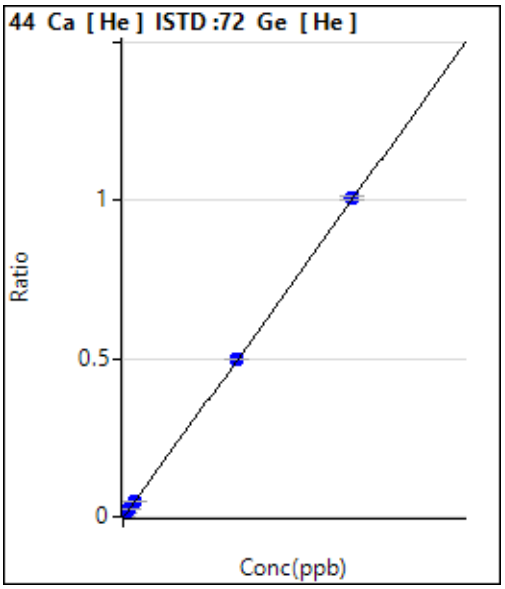
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	21650.67	0.0084	P	3.7	
2	☐	2.000	1.884	137057.44	0.0530	P	1.4	-5.8
3	☐	5.000	4.673	311509.81	0.1190	P	2.0	-6.5
4	☐	10.000	9.256	599297.77	0.2276	P	0.9	-7.4
5	☐	100.000	99.521	6076073.87	2.3648	A	1.8	-0.5
6	☐	200.000	200.286	11988043.57	4.7507	A	2.0	0.1

y = 0.0237 * x + 0.0084
R = 1.0000
DL = 0.03957 ppb
BEC = 0.3545 ppb

Weight: <None>
Min Conc: <None>

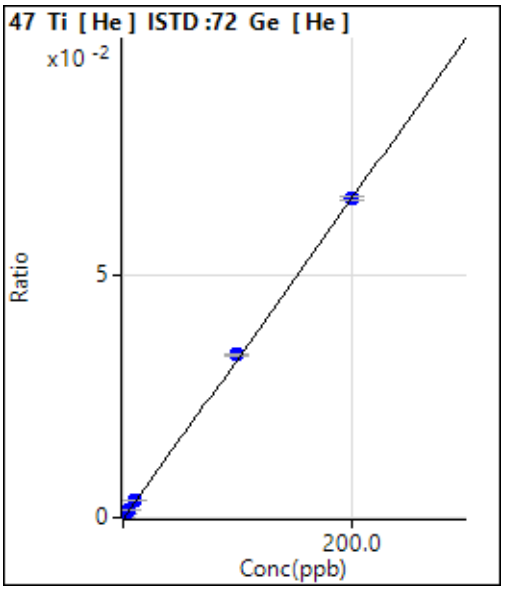


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	646.70	0.0010	P	1.7	
2	☐	200.000	197.330	7282.10	0.0109	P	2.1	-1.3
3	☐	500.000	500.030	17351.17	0.0261	P	1.5	0.0
4	☐	1000.000	976.194	33507.86	0.0500	P	3.8	-2.4
5	☐	10000.00	9904.985	325763.02	0.4983	P	0.9	-1.0
6	☐	20000.00	20048.72	649316.76	1.0076	P	0.9	0.2

y = 5.0209E-005 * x + 9.7706E-004
R = 1.0000
DL = 0.9917 ppb
BEC = 19.46 ppb

Weight: <None>
Min Conc: <None>

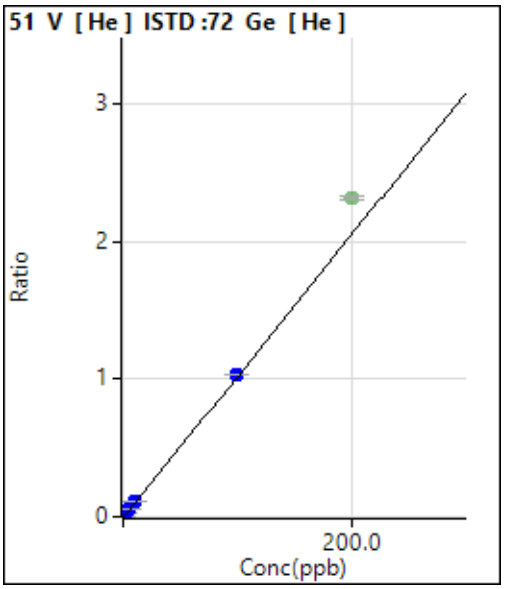
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	173.2	
2	☐	2.000	2.267	510.02	0.0008	P	13.8	13.3
3	☐	5.000	4.773	1060.06	0.0016	P	8.4	-4.5
4	☐	10.000	10.734	2393.59	0.0036	P	7.9	7.3
5	☐	100.000	101.541	22028.04	0.0337	P	2.0	1.5
6	☐	200.000	199.196	42593.01	0.0661	P	1.5	-0.4

y = 3.3176E-004 * x + 1.0137E-005
R = 1.0000
DL = 0.1588 ppb
BEC = 0.03055 ppb

Weight: <None>
Min Conc: <None>

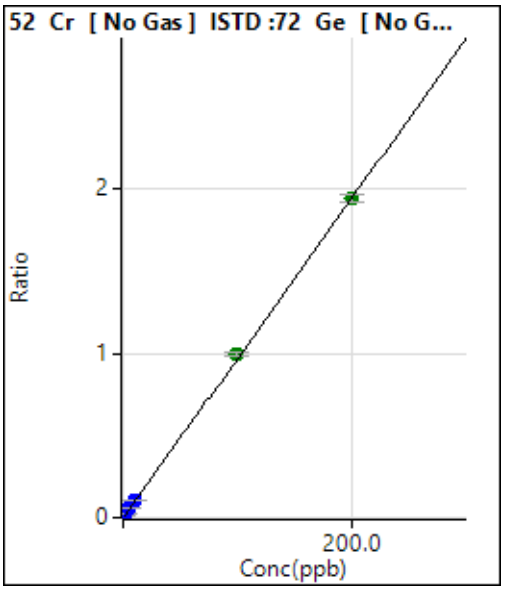


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2785.86	0.0042	P	3.2	
2	☐	2.000	1.985	16497.74	0.0247	P	2.5	-0.8
3	☐	5.000	4.974	36887.29	0.0555	P	0.8	-0.5
4	☐	10.000	9.945	71499.85	0.1067	P	0.7	-0.6
5	☐	100.000	100.007	676370.49	1.0346	P	0.7	0.0
6	☑	200.000		1495214.42	2.3202	A	1.6	

y = 0.0103 * x + 0.0042
R = 1.0000
DL = 0.03959 ppb
BEC = 0.4086 ppb

Weight: <None>
Min Conc: <None>

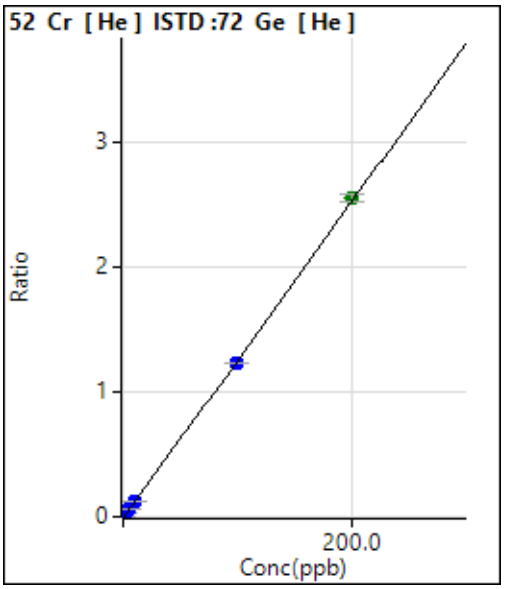
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	18793.19	0.0073	P	2.0	
2	☐	2.000	1.938	67573.07	0.0261	P	0.2	-3.1
3	☐	5.000	4.879	143203.02	0.0547	P	1.6	-2.4
4	☐	10.000	9.615	265395.29	0.1008	P	1.0	-3.8
5	☐	100.000	101.904	2564500.59	0.9981	A	2.0	1.9
6	☐	200.000	199.071	4902769.51	1.9429	A	1.8	-0.5

y = 0.0097 * x + 0.0073
R = 0.9999
DL = 0.04493 ppb
BEC = 0.7491 ppb

Weight: <None>
Min Conc: <None>

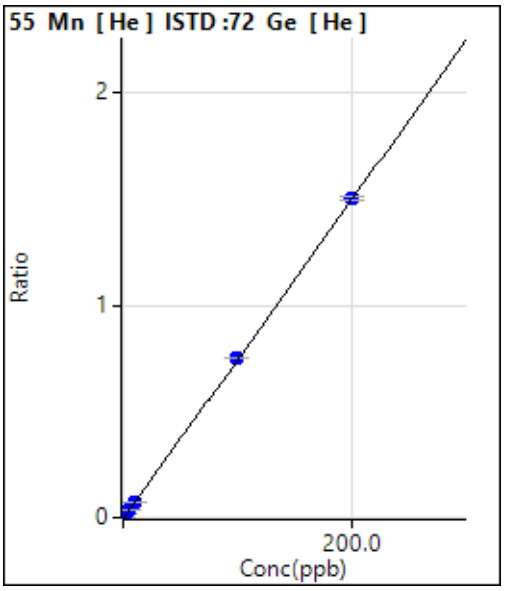


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	606.69	0.0009	P	6.2	
2	☐	2.000	1.943	17077.62	0.0255	P	1.2	-2.8
3	☐	5.000	4.835	41342.70	0.0621	P	1.0	-3.3
4	☐	10.000	9.595	82055.07	0.1224	P	0.7	-4.1
5	☐	100.000	97.138	804782.62	1.2311	P	0.2	-2.9
6	☐	200.000	201.456	1644574.72	2.5521	A	2.4	0.7

y = 0.0127 * x + 9.1650E-004
R = 0.9999
DL = 0.01341 ppb
BEC = 0.07237 ppb

Weight: <None>
Min Conc: <None>

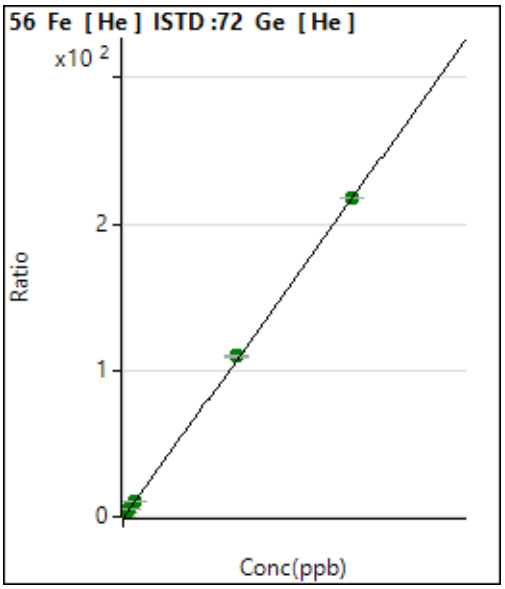
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	503.35	0.0008	P	14.1	
2	☐	2.000	2.002	10574.22	0.0158	P	0.6	0.1
3	☐	5.000	4.876	24882.97	0.0374	P	1.6	-2.5
4	☐	10.000	10.066	51216.17	0.0764	P	1.1	0.7
5	☐	100.000	100.049	492089.59	0.7527	P	0.5	0.0
6	☐	200.000	199.975	969057.80	1.5038	P	1.1	0.0

y = 0.0075 * x + 7.6033E-004
R = 1.0000
DL = 0.04276 ppb
BEC = 0.1012 ppb

Weight: <None>
Min Conc: <None>

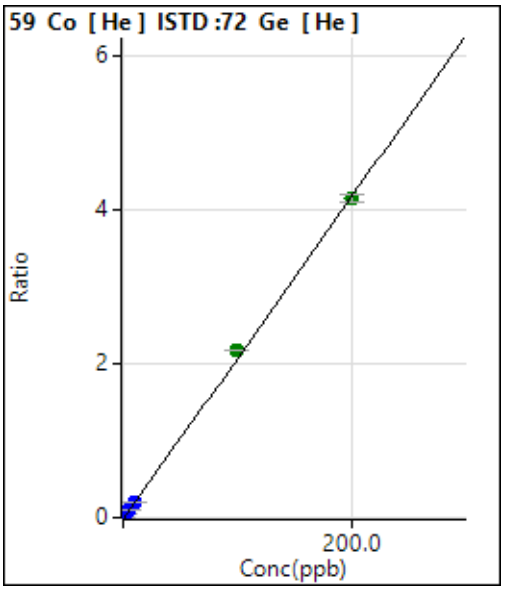


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11425.00	0.0173	P	2.5	
2	☐	200.000	209.238	1539409.77	2.3010	A	0.9	4.6
3	☐	500.000	512.765	3734418.69	5.6139	A	0.1	2.6
4	☐	1000.000	1001.344	7337120.73	10.9466	A	0.7	0.1
5	☐	10000.00	10066.89	71844403.93	109.894	A	0.9	0.7
6	☐	20000.00	19966.07	140448941.2	217.940	A	0.4	-0.2

y = 0.0109 * x + 0.0173
R = 1.0000
DL = 0.1193 ppb
BEC = 1.581 ppb

Weight: <None>
Min Conc: <None>

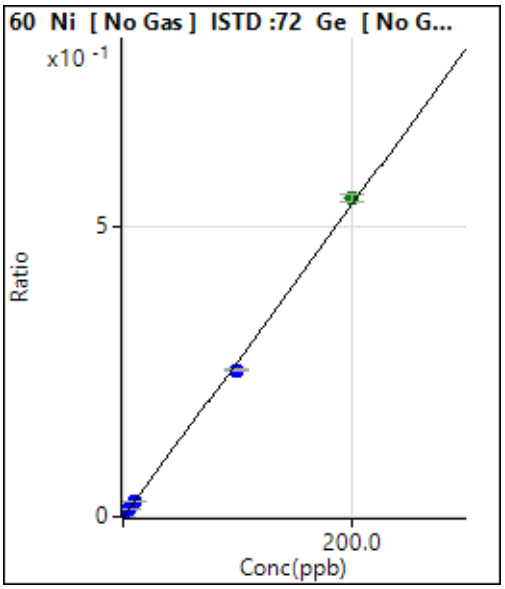
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	63.33	0.0001	P	18.9	
2	☐	2.000	1.925	27047.22	0.0404	P	3.6	-3.7
3	☐	5.000	4.789	66800.17	0.1004	P	2.3	-4.2
4	☐	10.000	9.548	134131.34	0.2001	P	0.2	-4.5
5	☐	100.000	104.089	1425521.39	2.1806	A	0.2	4.1
6	☐	200.000	197.984	2672680.79	4.1475	A	1.8	-1.0

y = 0.0209 * x + 9.5793E-005
R = 0.9997
DL = 0.002599 ppb
BEC = 0.004573 ppb

Weight: <None>
Min Conc: <None>

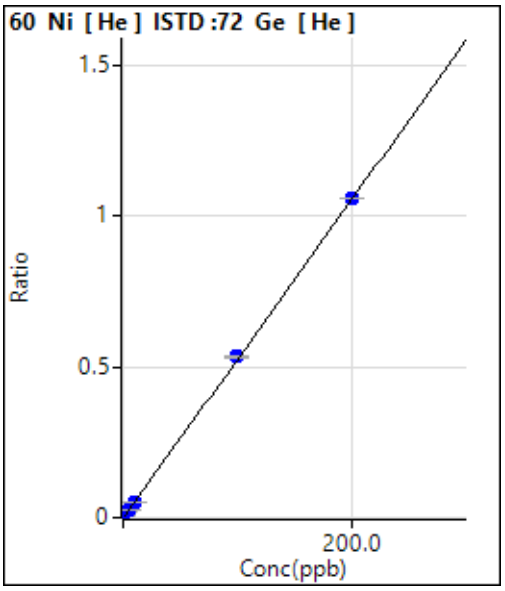


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4020.67	0.0016	P	4.0	
2	☐	2.000	2.844	23777.79	0.0092	P	2.9	42.2
3	☐	5.000	4.203	33611.78	0.0128	P	2.6	-15.9
4	☐	10.000	8.894	67008.19	0.0254	P	2.1	-11.1
5	☐	100.000	93.051	646158.98	0.2515	P	1.0	-6.9
6	☐	200.000	203.541	1383270.97	0.5482	A	2.5	1.8

y = 0.0027 * x + 0.0016
R = 0.9991
DL = 0.06966 ppb
BEC = 0.5803 ppb

Weight: <None>
Min Conc: <None>

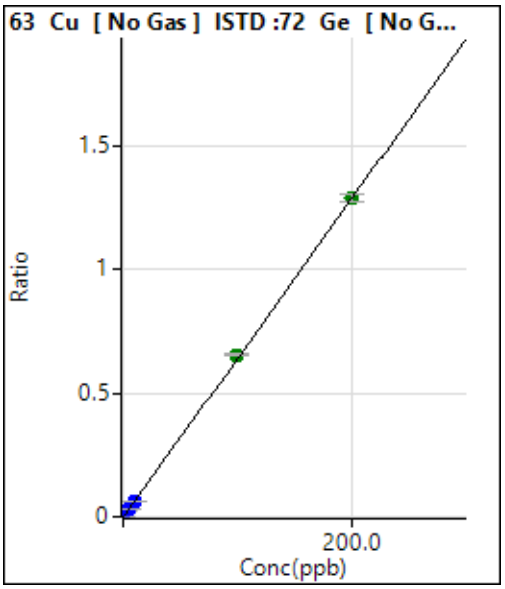
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2320.24	0.0035	P	2.5	
2	☐	2.000	2.963	12799.52	0.0191	P	1.7	48.1
3	☐	5.000	4.504	18132.33	0.0273	P	1.9	-9.9
4	☐	10.000	9.390	35543.37	0.0530	P	1.2	-6.1
5	☐	100.000	100.408	348467.63	0.5330	P	0.9	0.4
6	☐	200.000	199.829	681408.87	1.0574	P	0.1	-0.1

y = 0.0053 * x + 0.0035
R = 1.0000
DL = 0.05027 ppb
BEC = 0.6648 ppb

Weight: <None>
Min Conc: <None>

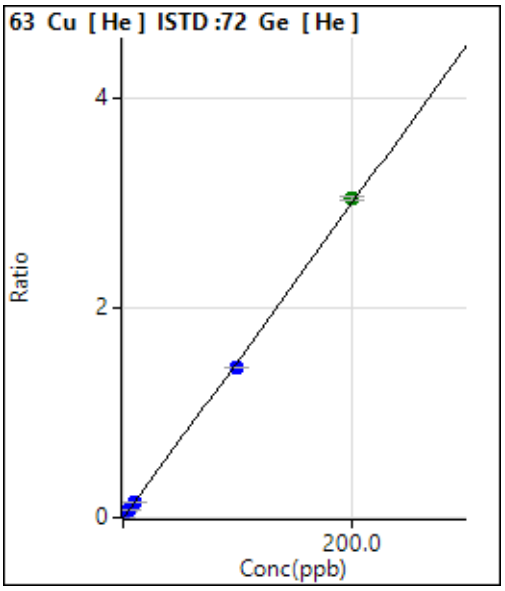


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8839.71	0.0034	P	5.0	
2	☑	2.000		66190.78	0.0256	P	2.0	
3	☐	5.000	4.303	81516.93	0.0311	P	1.4	-13.9
4	☐	10.000	9.141	164105.16	0.0623	P	1.2	-8.6
5	☐	100.000	101.220	1684066.95	0.6555	A	2.1	1.2
6	☐	200.000	199.451	3250963.18	1.2882	A	1.8	-0.3

y = 0.0064 * x + 0.0034
R = 1.0000
DL = 0.08025 ppb
BEC = 0.5319 ppb

Weight: <None>
Min Conc: <None>

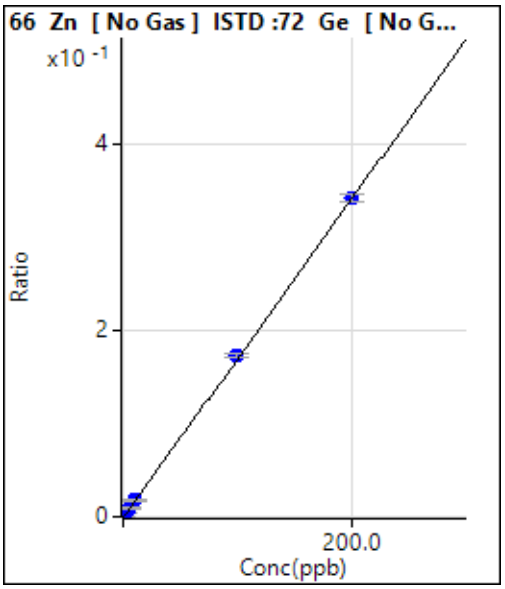
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5041.04	0.0076	P	1.6	
2	☑	2.000		39430.81	0.0589	P	1.1	
3	☐	5.000	4.482	49911.81	0.0750	P	1.5	-10.4
4	☐	10.000	9.323	99092.79	0.1478	P	1.2	-6.8
5	☐	100.000	95.318	942212.07	1.4413	P	0.2	-4.7
6	☐	200.000	202.388	1966575.44	3.0517	A	0.8	1.2

y = 0.0150 * x + 0.0076
R = 0.9996
DL = 0.02424 ppb
BEC = 0.5064 ppb

Weight: <None>
Min Conc: <None>

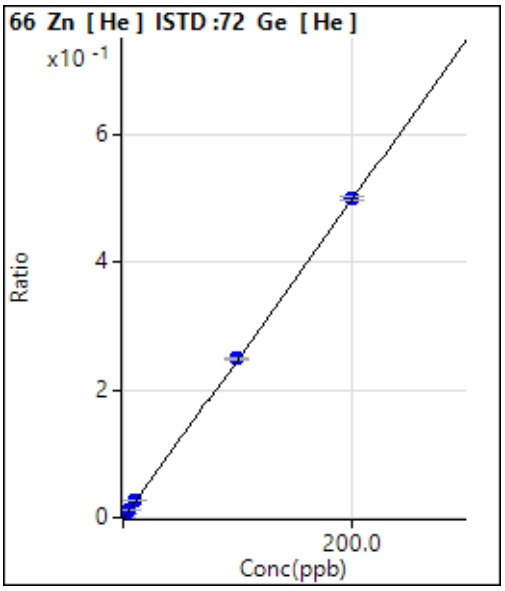


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1050.06	0.0004	P	10.6	
2	☐	2.000	2.025	10037.25	0.0039	P	2.3	1.3
3	☐	5.000	5.132	24098.35	0.0092	P	2.7	2.6
4	☐	10.000	10.051	46476.46	0.0176	P	1.3	0.5
5	☐	100.000	100.724	444972.59	0.1732	P	2.0	0.7
6	☐	200.000	199.632	865180.43	0.3428	P	2.0	-0.2

y = 0.0017 * x + 4.0688E-004
R = 1.0000
DL = 0.07536 ppb
BEC = 0.2372 ppb

Weight: <None>
Min Conc: <None>

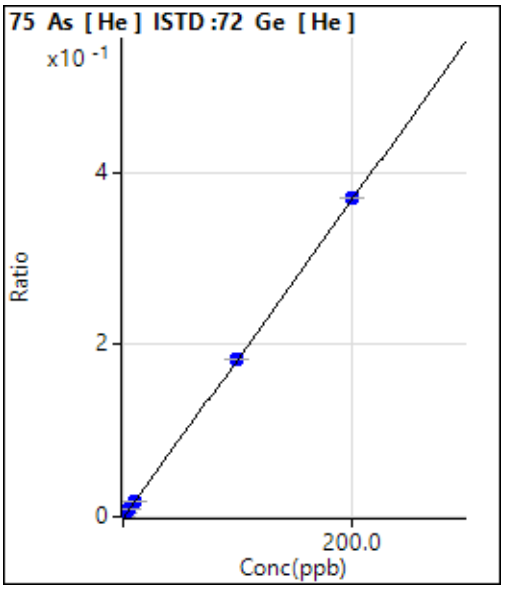
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	370.01	0.0006	P	5.5	
2	☐	2.000	2.008	3723.91	0.0056	P	5.9	0.4
3	☐	5.000	4.952	8589.52	0.0129	P	1.3	-1.0
4	☐	10.000	10.154	17351.32	0.0259	P	0.9	1.5
5	☐	100.000	99.763	163040.38	0.2494	P	0.9	-0.2
6	☐	200.000	200.112	322030.13	0.4997	P	1.3	0.1

y = 0.0025 * x + 5.5924E-004
R = 1.0000
DL = 0.03683 ppb
BEC = 0.2242 ppb

Weight: <None>
Min Conc: <None>

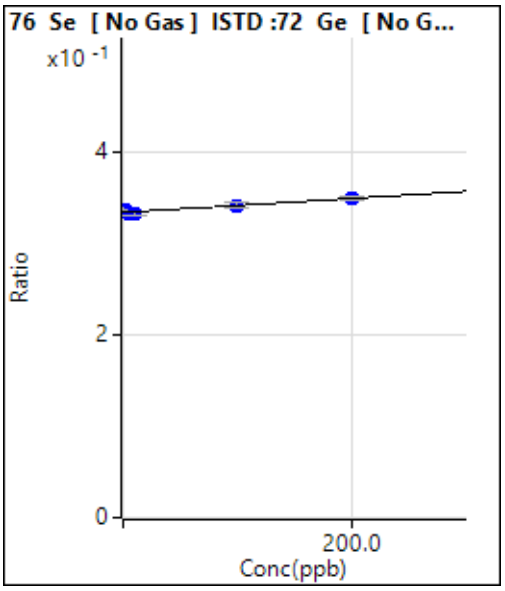


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	124.44	0.0002	P	11.8	
2	☐	2.000	1.920	2494.69	0.0037	P	2.9	-4.0
3	☐	5.000	4.929	6173.66	0.0093	P	0.7	-1.4
4	☐	10.000	9.892	12355.71	0.0184	P	2.7	-1.1
5	☐	100.000	99.069	119590.42	0.1829	P	0.9	-0.9
6	☐	200.000	200.474	238428.67	0.3700	P	0.6	0.2

y = 0.0018 * x + 1.8813E-004
R = 1.0000
DL = 0.03624 ppb
BEC = 0.102 ppb

Weight: <None>
Min Conc: <None>

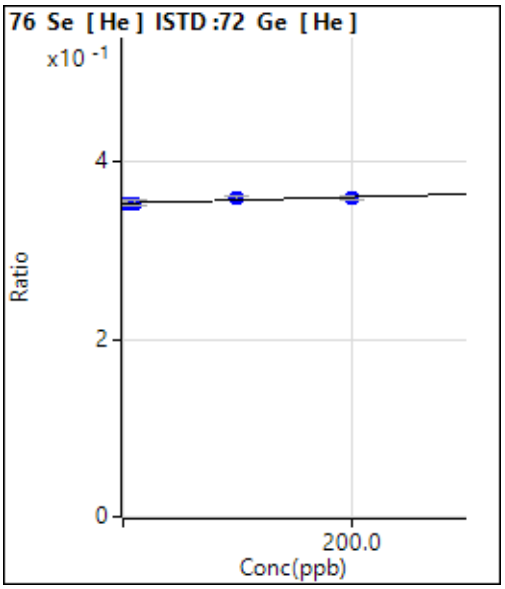
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	862301.23	0.3342	P	0.7	
2	☐	2.000	23.667	868924.44	0.3360	P	1.5	1083.4
3	☐	5.000	-5.744	873410.90	0.3338	P	2.2	-214.9
4	☐	10.000	-14.719	877195.95	0.3331	P	1.3	-247.2
5	☐	100.000	101.349	878877.54	0.3420	P	1.4	1.3
6	☐	200.000	200.613	882613.76	0.3497	P	0.7	0.3

y = 7.7245E-005 * x + 0.3342
R = 0.9836
DL = 92.55 ppb
BEC = 4327 ppb

Weight: <None>
Min Conc: <None>

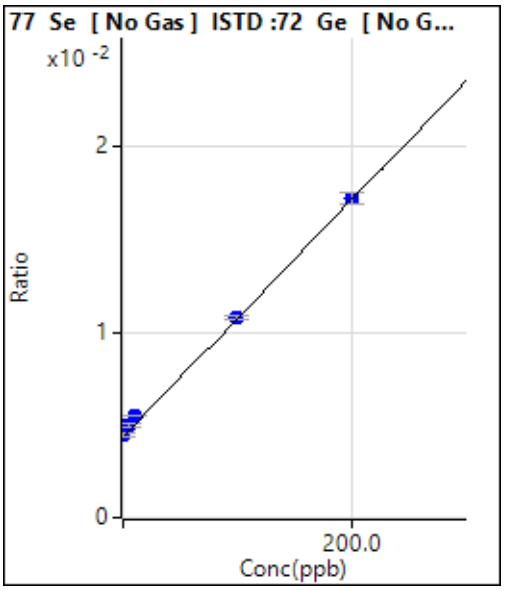


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	233957.22	0.3535	P	0.6	
2	☐	2.000	6.742	236642.33	0.3537	P	0.9	237.1
3	☐	5.000	-1.457	235112.30	0.3535	P	1.0	-129.1
4	☐	10.000	8.118	237128.12	0.3538	P	1.6	-18.8
5	☐	100.000	158.472	234679.58	0.3590	P	1.0	58.5
6	☐	200.000	170.972	231612.45	0.3594	P	0.9	-14.5

y = 3.4537E-005 * x + 0.3535
R = 0.9384
DL = 170.5 ppb
BEC = 1.024E+04 ppb

Weight: <None>
Min Conc: <None>

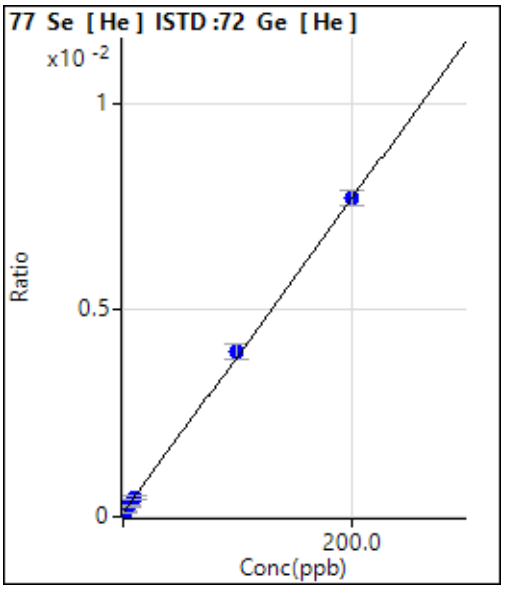
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11501.82	0.0045	P	6.3	
2	☐	2.000	8.295	12896.40	0.0050	P	5.5	314.7
3	☐	5.000	8.106	13023.16	0.0050	P	2.6	62.1
4	☐	10.000	16.688	14551.48	0.0055	P	0.9	66.9
5	☐	100.000	99.331	27762.30	0.0108	P	1.8	-0.7
6	☐	200.000	199.859	43463.71	0.0172	P	3.1	-0.1

y = 6.3875E-005 * x + 0.0045
R = 0.9994
DL = 13.11 ppb
BEC = 69.81 ppb

Weight: <None>
Min Conc: <None>

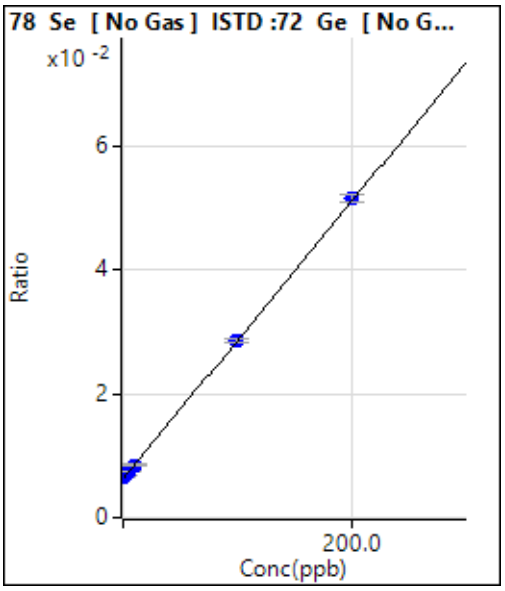


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	86.67	0.0001	P	37.7	
2	☐	2.000	-0.571	73.33	0.0001	P	20.2	-128.5
3	☐	5.000	3.401	173.34	0.0003	P	16.5	-32.0
4	☐	10.000	9.240	323.34	0.0005	P	20.7	-7.6
5	☐	100.000	101.321	2603.65	0.0040	P	9.3	1.3
6	☐	200.000	199.443	4971.01	0.0077	P	4.6	-0.3

y = 3.8014E-005 * x + 1.3122E-004
R = 0.9999
DL = 3.903 ppb
BEC = 3.452 ppb

Weight: <None>
Min Conc: <None>

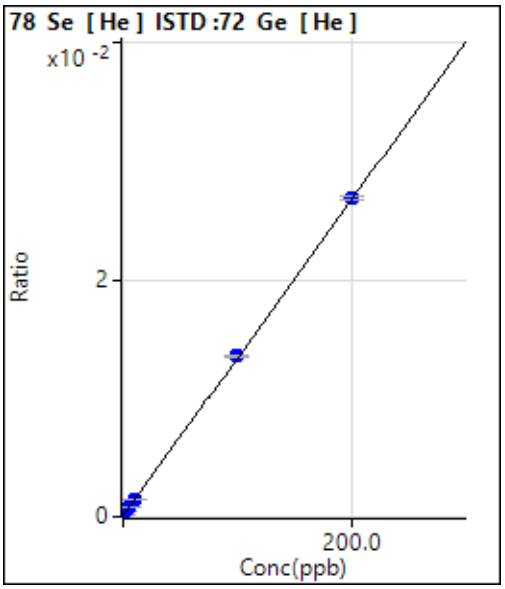
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16890.81	0.0065	P	1.3	
2	☐	2.000	1.409	17741.97	0.0069	P	2.1	-29.5
3	☐	5.000	4.295	19651.27	0.0075	P	2.3	-14.1
4	☐	10.000	8.641	22332.05	0.0085	P	2.9	-13.6
5	☐	100.000	97.926	73124.51	0.0285	P	1.9	-2.1
6	☐	200.000	201.128	130103.80	0.0516	P	1.9	0.6

y = 2.2378E-004 * x + 0.0065
R = 0.9999
DL = 1.166 ppb
BEC = 29.25 ppb

Weight: <None>
Min Conc: <None>

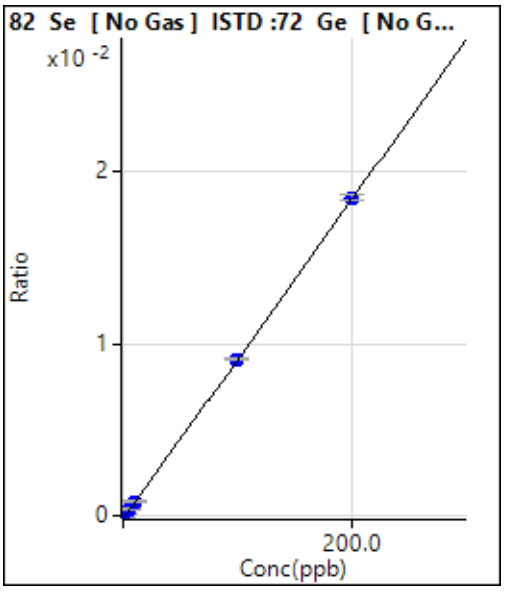


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	149.33	0.0002	P	12.6	
2	☐	2.000	2.090	337.34	0.0005	P	5.3	4.5
3	☐	5.000	4.637	561.35	0.0008	P	10.0	-7.3
4	☐	10.000	9.621	1010.71	0.0015	P	3.4	-3.8
5	☐	100.000	99.935	8854.93	0.0135	P	0.7	-0.1
6	☐	200.000	200.059	17328.46	0.0269	P	1.2	0.0

y = 1.3328E-004 * x + 2.2575E-004
R = 1.0000
DL = 0.6413 ppb
BEC = 1.694 ppb

Weight: <None>
Min Conc: <None>

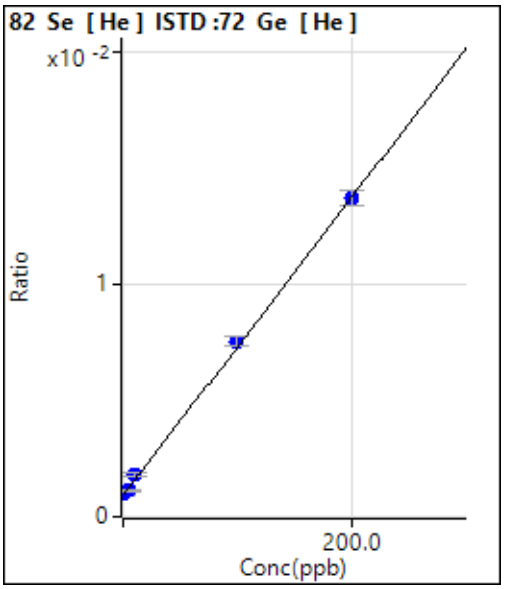
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-328.56	-0.0001	P	-61.5	
2	☐	2.000	3.507	510.89	0.0002	P	69.2	75.4
3	☐	5.000	5.061	899.63	0.0003	P	19.6	1.2
4	☐	10.000	10.232	2169.89	0.0008	P	5.6	2.3
5	☐	100.000	99.237	23390.81	0.0091	P	1.9	-0.8
6	☐	200.000	200.353	46718.75	0.0185	P	2.0	0.2

y = 9.3024E-005 * x - 1.2776E-004
R = 1.0000
DL = 2.535 ppb
BEC = -1.373 ppb

Weight: <None>
Min Conc: <None>

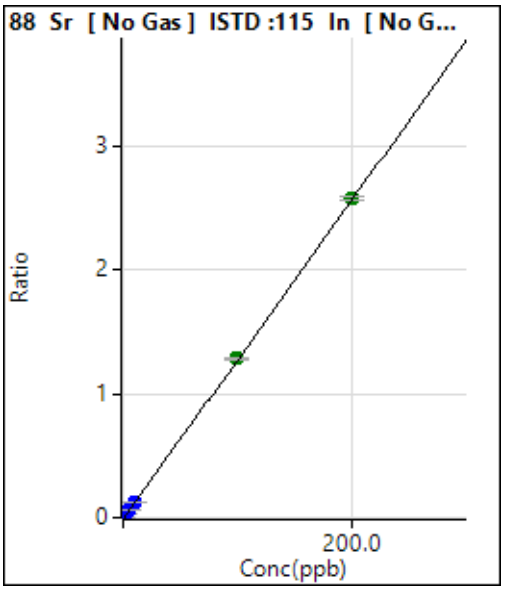


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	653.36	0.0010	P	11.9	
2	☐	2.000	1.715	733.37	0.0011	P	11.7	-14.2
3	☐	5.000	2.595	766.70	0.0012	P	7.5	-48.1
4	☐	10.000	12.798	1210.07	0.0018	P	10.0	28.0
5	☐	100.000	102.472	4931.00	0.0075	P	5.1	2.5
6	☐	200.000	198.687	8826.38	0.0137	P	4.7	-0.7

y = 6.3964E-005 * x + 9.8673E-004
R = 0.9997
DL = 5.507 ppb
BEC = 15.43 ppb

Weight: <None>
Min Conc: <None>

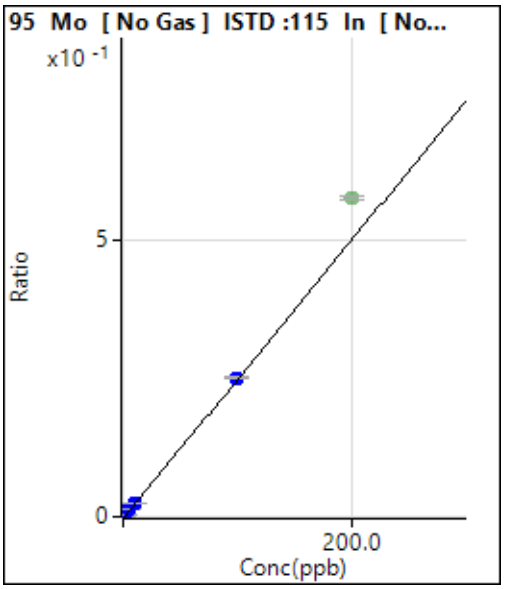
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2266.89	0.0008	P	6.2	
2	☐	2.000	1.901	75294.33	0.0252	P	1.2	-5.0
3	☐	5.000	4.689	186140.47	0.0611	P	1.2	-6.2
4	☐	10.000	9.666	372559.81	0.1252	P	0.6	-3.3
5	☐	100.000	99.536	3781168.80	1.2822	A	0.2	-0.5
6	☐	200.000	200.258	7366490.93	2.5789	A	1.0	0.1

y = 0.0129 * x + 7.6779E-004
R = 1.0000
DL = 0.01111 ppb
BEC = 0.05964 ppb

Weight: <None>
Min Conc: <None>

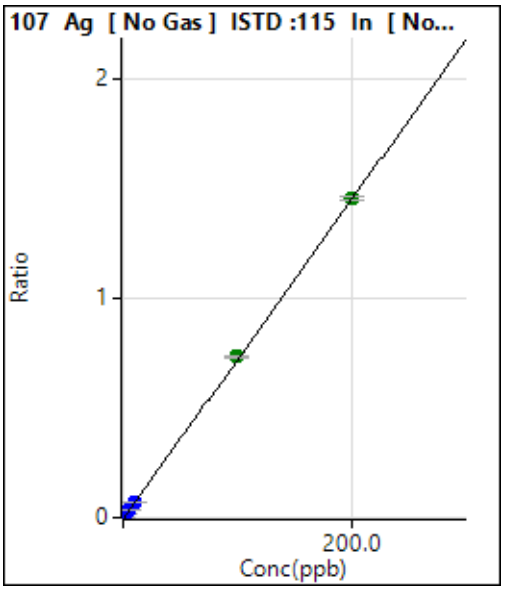


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	33.33	0.0000	P	121.6	
2	☐	2.000	2.034	15285.63	0.0051	P	0.4	1.7
3	☐	5.000	4.892	37473.17	0.0123	P	0.9	-2.2
4	☐	10.000	10.138	75868.95	0.0255	P	0.9	1.4
5	☐	100.000	99.991	741226.37	0.2514	P	0.9	0.0
6	☑	200.000		1645625.60	0.5760	A	1.4	

y = 0.0025 * x + 1.1339E-005
R = 1.0000
DL = 0.01646 ppb
BEC = 0.004511 ppb

Weight: <None>
Min Conc: <None>

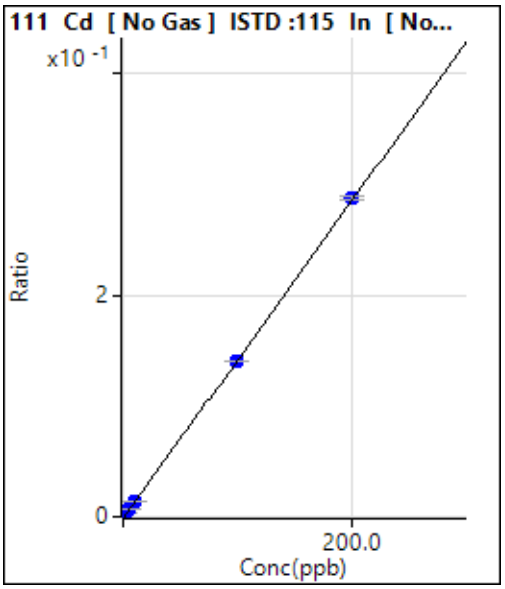
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	263.34	0.0001	P	12.7	
2	☐	2.000	1.904	41592.26	0.0139	P	2.2	-4.8
3	☐	5.000	4.654	103354.89	0.0339	P	0.6	-6.9
4	☐	10.000	9.647	209086.87	0.0703	P	0.6	-3.5
5	☐	100.000	100.580	2157796.27	0.7318	A	1.5	0.6
6	☐	200.000	199.737	4151272.23	1.4532	A	1.1	-0.1

y = 0.0073 * x + 8.9249E-005
R = 1.0000
DL = 0.004678 ppb
BEC = 0.01227 ppb

Weight: <None>
Min Conc: <None>

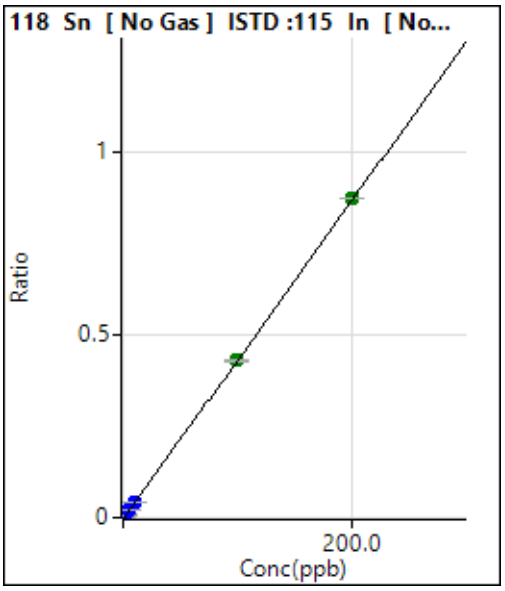


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	0.00	0.0000	P		
2	☐	2.000	2.027	8656.34	0.0029	P	5.7	1.3
3	☐	5.000	4.949	21567.95	0.0071	P	4.8	-1.0
4	☐	10.000	9.900	42147.67	0.0142	P	3.1	-1.0
5	☐	100.000	98.168	414285.80	0.1405	P	0.9	-1.8
6	☐	200.000	200.922	821384.15	0.2875	P	1.0	0.5

y = 0.0014 * x + 0.0000E+000
R = 0.9999
DL = 0 ppb
BEC = 0 ppb

Weight: <None>
Min Conc: <None>

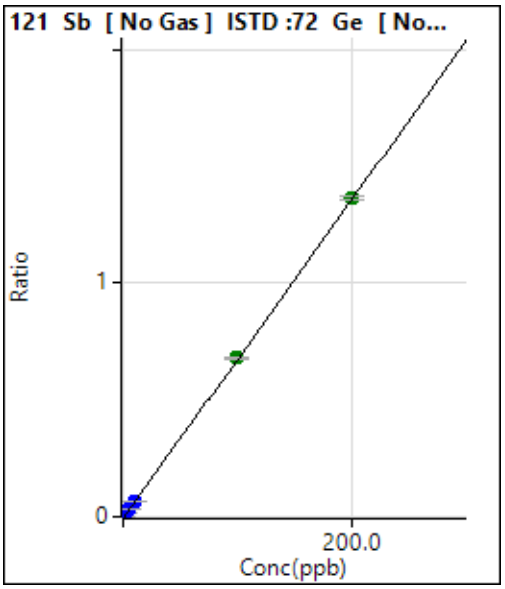
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	620.02	0.0002	P	13.8	
2	☐	2.000	1.772	23631.58	0.0079	P	1.6	-11.4
3	☐	5.000	4.488	60097.76	0.0197	P	1.5	-10.2
4	☐	10.000	9.112	118585.60	0.0399	P	1.4	-8.9
5	☐	100.000	98.748	1267803.65	0.4299	A	1.0	-1.3
6	☐	200.000	200.685	2495062.31	0.8734	A	0.6	0.3

y = 0.0044 * x + 2.0995E-004
R = 1.0000
DL = 0.02002 ppb
BEC = 0.04825 ppb

Weight: <None>
Min Conc: <None>

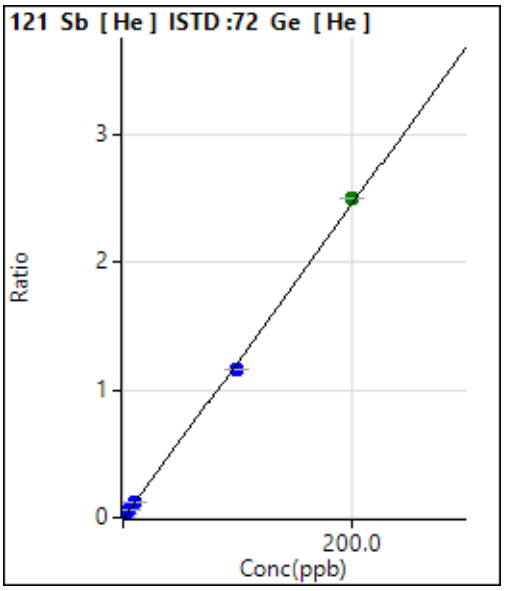


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	330.01	0.0001	P	23.0	
2	☐	2.000	1.884	33539.77	0.0130	P	1.8	-5.8
3	☐	5.000	4.718	84521.41	0.0323	P	2.0	-5.6
4	☐	10.000	9.315	167593.66	0.0636	P	0.5	-6.8
5	☐	100.000	99.676	1746633.41	0.6797	A	1.1	-0.3
6	☐	200.000	200.204	3444792.14	1.3651	A	1.8	0.1

y = 0.0068 * x + 1.2795E-004
R = 1.0000
DL = 0.01296 ppb
BEC = 0.01877 ppb

Weight: <None>
Min Conc: <None>

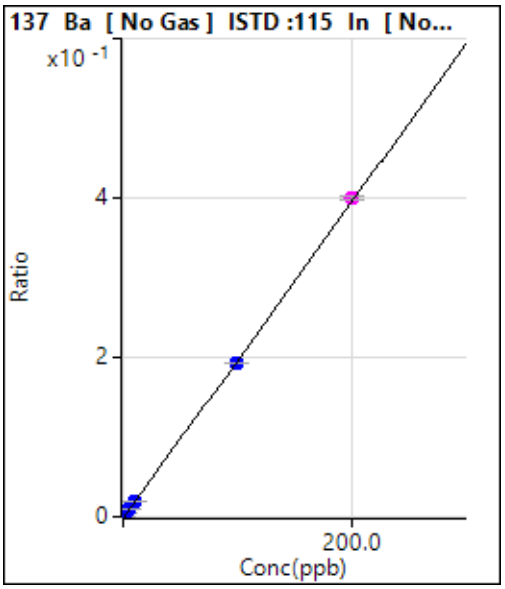
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	203.34	0.0003	P	18.1	
2	☐	2.000	1.838	15339.20	0.0229	P	2.5	-8.1
3	☐	5.000	4.654	38306.13	0.0576	P	1.8	-6.9
4	☐	10.000	9.311	77015.54	0.1149	P	1.2	-6.9
5	☐	100.000	93.974	756309.05	1.1569	P	0.4	-6.0
6	☐	200.000	203.058	1610764.14	2.4995	A	0.3	1.5

y = 0.0123 * x + 3.0701E-004
R = 0.9994
DL = 0.01352 ppb
BEC = 0.02494 ppb

Weight: <None>
Min Conc: <None>

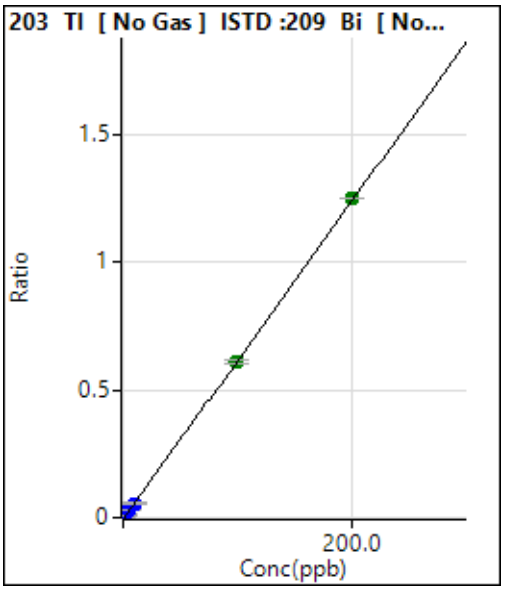


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	193.34	0.0001	P	22.1	
2	☐	2.000	1.938	11668.76	0.0039	P	4.2	-3.1
3	☐	5.000	4.601	27997.14	0.0092	P	2.0	-8.0
4	☐	10.000	9.841	58297.66	0.0196	P	0.7	-1.6
5	☐	100.000	96.910	567310.93	0.1924	P	0.6	-3.1
6	☐	200.000	201.564	1142921.54	0.4001	M	0.8	0.8

y = 0.0020 * x + 6.5549E-005
R = 0.9998
DL = 0.0219 ppb
BEC = 0.03303 ppb

Weight: <None>
Min Conc: <None>

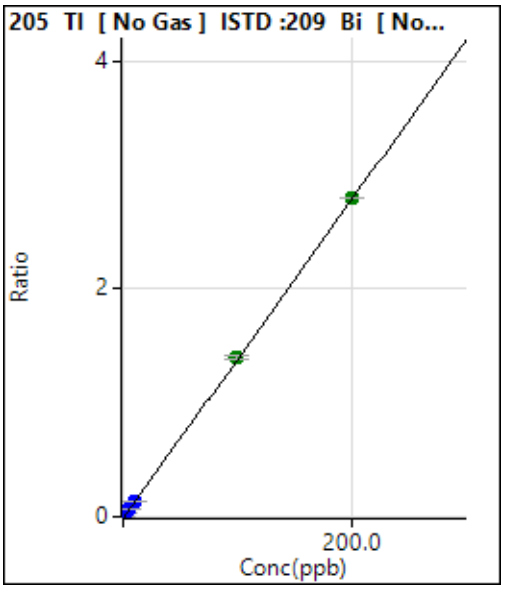
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	23.33	0.0000	P	23.5	
2	☐	2.000	1.797	28502.90	0.0112	P	4.1	-10.1
3	☐	5.000	4.481	72168.15	0.0278	P	1.0	-10.4
4	☐	10.000	9.071	145143.00	0.0564	P	0.8	-9.3
5	☐	100.000	98.227	1551218.73	0.6102	A	2.5	-1.8
6	☐	200.000	200.948	3079439.22	1.2483	A	0.4	0.5

y = 0.0062 * x + 9.2028E-006
R = 0.9999
DL = 0.001043 ppb
BEC = 0.001481 ppb

Weight: <None>
Min Conc: <None>

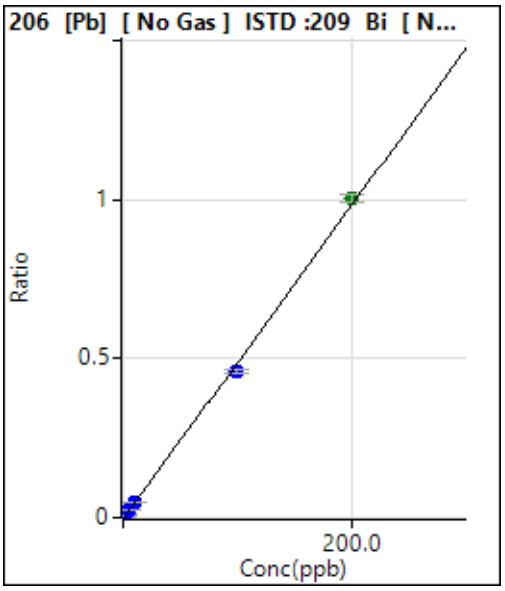


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	36.67	0.0000	P	15.2	
2	☐	2.000	1.897	67643.11	0.0265	P	0.9	-5.2
3	☐	5.000	4.691	169875.48	0.0656	P	3.2	-6.2
4	☐	10.000	9.481	341216.75	0.1325	P	1.3	-5.2
5	☐	100.000	99.880	3547952.13	1.3956	A	2.1	-0.1
6	☐	200.000	200.095	6896809.69	2.7958	A	0.3	0.0

y = 0.0140 * x + 1.4480E-005
R = 1.0000
DL = 0.0004729 ppb
BEC = 0.001036 ppb

Weight: <None>
Min Conc: <None>

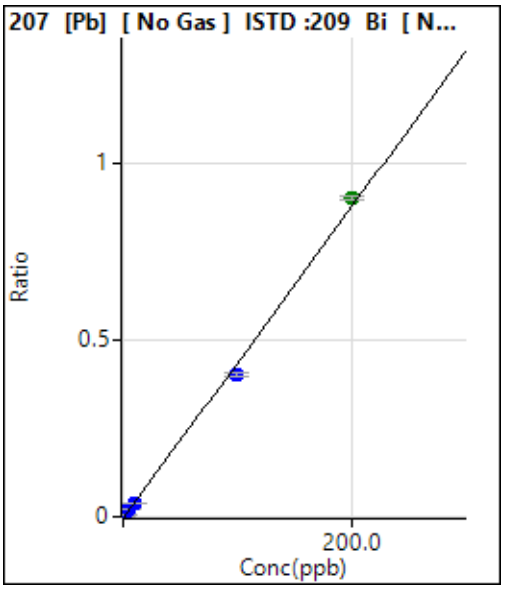
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	240.01	0.0001	P	15.5	
2	☐	2.000	1.825	23238.70	0.0091	P	2.8	-8.7
3	☐	5.000	4.643	59642.53	0.0230	P	3.4	-7.1
4	☐	10.000	9.317	118717.68	0.0461	P	0.8	-6.8
5	☐	100.000	93.120	1169142.59	0.4599	P	1.8	-6.9
6	☐	200.000	203.485	2478180.23	1.0048	A	2.3	1.7

y = 0.0049 * x + 9.4877E-005
R = 0.9992
DL = 0.008931 ppb
BEC = 0.01922 ppb

Weight: <None>
Min Conc: <None>

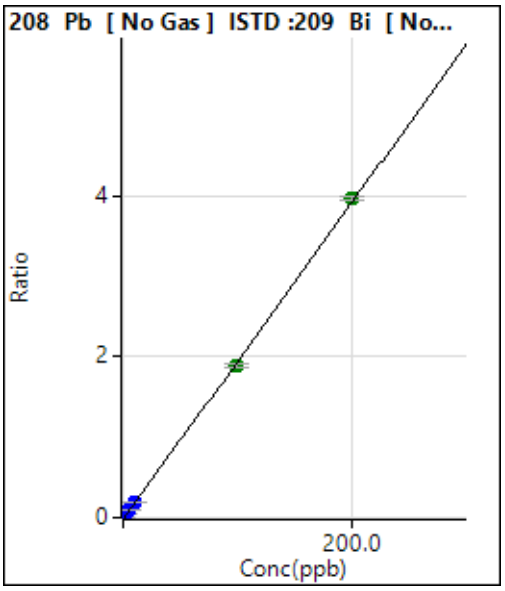


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	256.68	0.0001	P	29.5	
2	☐	2.000	1.771	20126.55	0.0079	P	0.8	-11.4
3	☐	5.000	4.500	51550.27	0.0199	P	1.4	-10.0
4	☐	10.000	8.962	101756.32	0.0395	P	0.1	-10.4
5	☐	100.000	90.842	1015754.00	0.3996	P	2.2	-9.2
6	☐	200.000	204.646	2220079.13	0.9000	A	1.0	2.3

y = 0.0044 * x + 1.0127E-004
R = 0.9986
DL = 0.02041 ppb
BEC = 0.02303 ppb

Weight: <None>
Min Conc: <None>

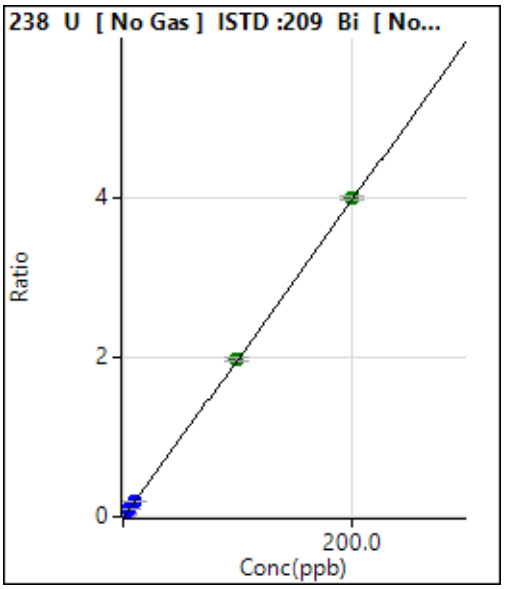
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1053.38	0.0004	P	7.8	
2	☐	2.000	1.842	93469.37	0.0366	P	0.9	-7.9
3	☐	5.000	4.622	236676.85	0.0913	P	2.1	-7.6
4	☐	10.000	9.245	469389.48	0.1822	P	0.8	-7.6
5	☐	100.000	96.310	4817135.30	1.8948	A	1.8	-3.7
6	☐	200.000	201.894	9796295.74	3.9715	A	1.2	0.9

y = 0.0197 * x + 4.1620E-004
R = 0.9998
DL = 0.004939 ppb
BEC = 0.02116 ppb

Weight: <None>
Min Conc: <None>

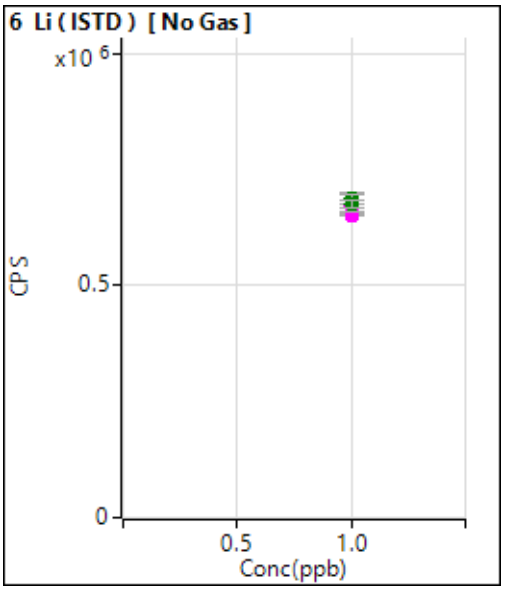


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10.00	0.0000	P	100.7	
2	☐	2.000	1.812	92165.41	0.0361	P	1.0	-9.4
3	☐	5.000	4.573	236231.41	0.0912	P	2.5	-8.5
4	☐	10.000	9.216	473117.51	0.1837	P	1.5	-7.8
5	☐	100.000	98.774	5005619.51	1.9688	A	2.0	-1.2
6	☐	200.000	200.665	9866681.73	3.9997	A	1.4	0.3

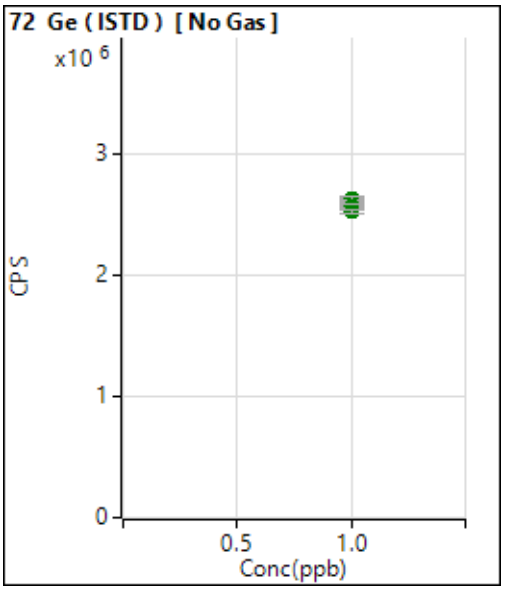
y = 0.0199 * x + 3.9499E-006
R = 1.0000
DL = 0.0005984 ppb
BEC = 0.0001982 ppb

Weight: <None>
Min Conc: <None>

Calibration for 103_ICV.d

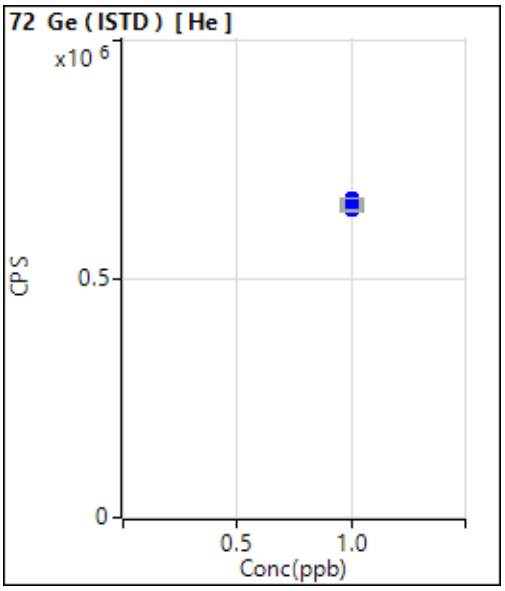


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		671767.35		M	3.7	
2	☐	1.000		651735.31		M	1.0	
3	☐	1.000		687708.92		M	3.1	
4	☐	1.000		658361.09		M	0.5	
5	☐	1.000		686013.79		A	3.2	
6	☐	1.000		674203.48		A	2.7	

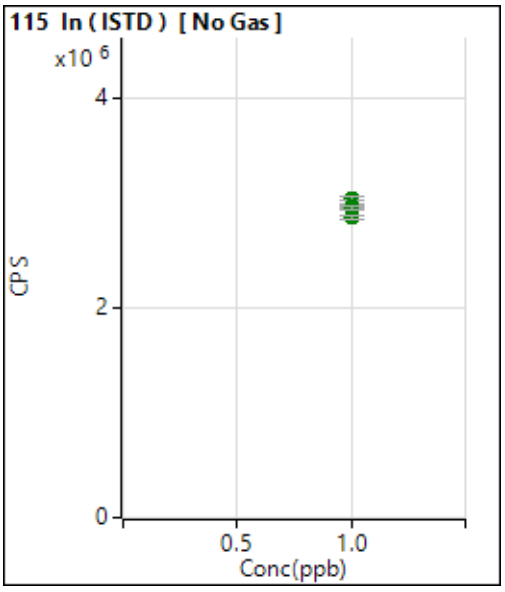


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2580172.51		A	0.8	
2	☐	1.000		2586028.40		A	1.2	
3	☐	1.000		2617485.38		A	1.8	
4	☐	1.000		2633650.38		A	0.6	
5	☐	1.000		2569882.98		A	1.6	
6	☐	1.000		2523938.24		A	1.5	

Calibration for 103_ICV.d

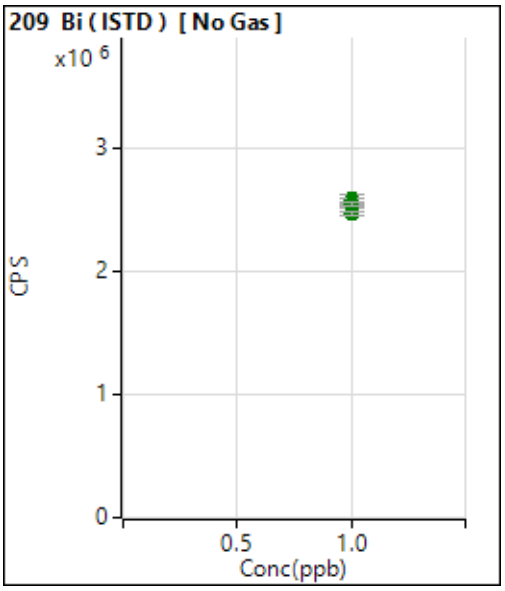


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		661835.38		P	0.8	
2	☐	1.000		669000.64		P	0.7	
3	☐	1.000		665203.95		P	0.4	
4	☐	1.000		670266.13		P	0.1	
5	☐	1.000		653737.96		P	0.6	
6	☐	1.000		644436.60		P	0.4	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2951822.21		A	0.5	
2	☐	1.000		2983452.97		A	0.9	
3	☐	1.000		3044844.52		A	1.0	
4	☐	1.000		2975388.92		A	1.2	
5	☐	1.000		2948998.62		A	1.2	
6	☐	1.000		2856644.92		A	1.2	

Calibration for 103_ICV.d



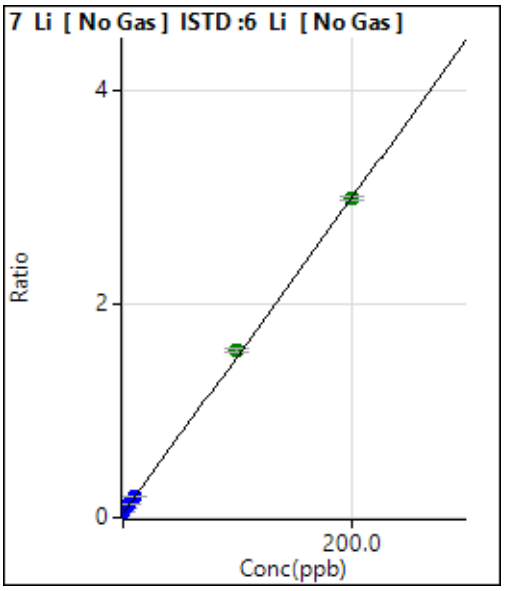
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2530810.59		A	1.2	
2	☐	1.000		2551148.45		A	0.6	
3	☐	1.000		2592585.75		A	2.8	
4	☐	1.000		2575627.88		A	1.1	
5	☐	1.000		2542623.40		A	1.1	
6	☐	1.000		2466889.65		A	1.5	

Calibration for 022_ICV.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\083022A.b\
Analysis File: 083022A.batch.bin
DA Date-Time: 08/30/2022 22:08:01
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	015CALB.d	CAL BLK	08/30/2022 12:27:53
2	016CALS.d	2/10/200	08/30/2022 12:30:03
3	017CALS.d	5/25/500	08/30/2022 12:32:10
4	018CALS.d	10/50/100	08/30/2022 12:34:18
5	019CALS.d	100/500/10K	08/30/2022 12:36:25
6	020CALS.d	200/1000/20K	08/30/2022 12:38:24

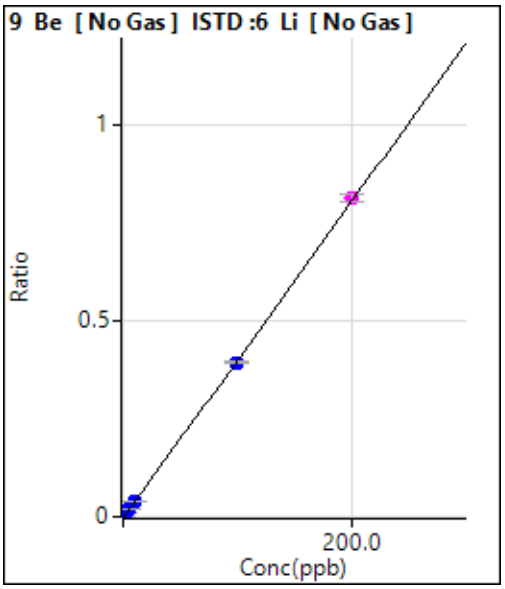
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	53561.52	0.0550	P	1.8	
2	☐	2.000	1.975	80886.00	0.0842	P	1.1	-1.3
3	☐	5.000	4.778	121134.68	0.1255	P	0.2	-4.4
4	☐	10.000	9.696	190666.10	0.1982	P	1.4	-3.0
5	☐	100.000	102.373	1509914.20	1.5665	A	1.4	2.4
6	☐	200.000	198.834	2911860.16	2.9908	A	1.3	-0.6

y = 0.0148 * x + 0.0550
R = 0.9999
DL = 0.2044 ppb
BEC = 3.725 ppb

Weight: <None>
Min Conc: <None>

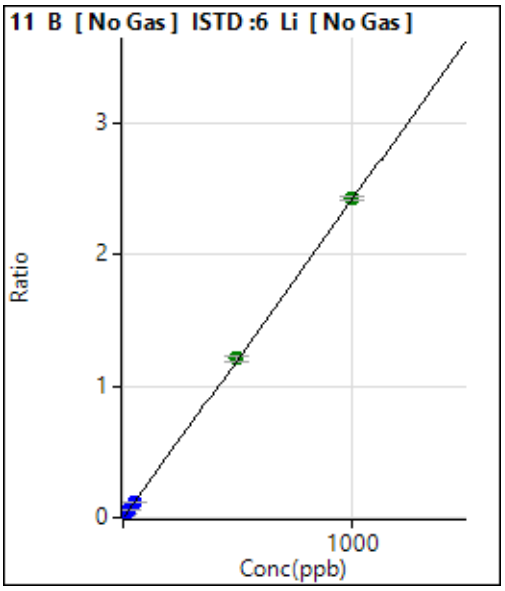


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	23.33	0.0000	P	64.6	
2	☐	2.000	1.922	7482.04	0.0078	P	1.7	-3.9
3	☐	5.000	4.904	19126.40	0.0198	P	1.0	-1.9
4	☐	10.000	9.751	37904.35	0.0394	P	1.9	-2.5
5	☐	100.000	97.562	379718.26	0.3940	P	1.3	-2.4
6	☐	200.000	201.235	791277.90	0.8126	M	2.1	0.6

y = 0.0040 * x + 2.3855E-005
R = 0.9999
DL = 0.01144 ppb
BEC = 0.005908 ppb

Weight: <None>
Min Conc: <None>

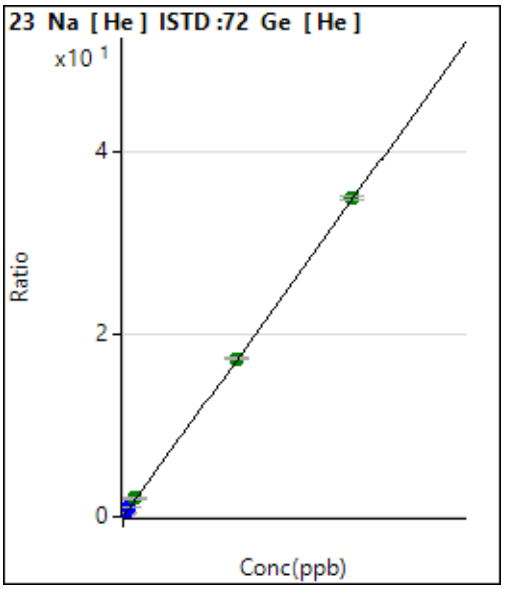
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7291.95	0.0075	P	4.3	
2	☐	10.000	9.270	28772.81	0.0299	P	0.4	-7.3
3	☐	25.000	23.193	61408.60	0.0636	P	1.4	-7.2
4	☐	50.000	47.550	117998.14	0.1226	P	0.5	-4.9
5	☐	500.000	498.263	1169905.94	1.2140	A	3.4	-0.3
6	☐	1000.000	1001.043	2367353.45	2.4314	A	0.7	0.1

y = 0.0024 * x + 0.0075
R = 1.0000
DL = 0.3985 ppb
BEC = 3.093 ppb

Weight: <None>
Min Conc: <None>

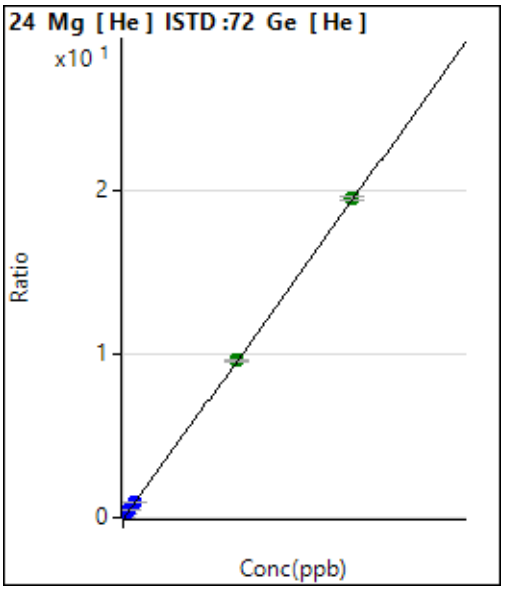


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	113949.08	0.1733	P	0.8	
2	☐	200.000	184.028	326572.06	0.4926	P	0.5	-8.0
3	☐	500.000	470.297	654026.40	0.9892	P	0.8	-5.9
4	☐	1000.000	1057.022	1327815.97	2.0072	A	2.6	5.7
5	☐	10000.00	9895.843	11455626.50	17.3420	A	0.7	-1.0
6	☐	20000.00	20050.13	22402012.17	34.9590	A	1.6	0.3

y = 0.0017 * x + 0.1733
R = 1.0000
DL = 2.318 ppb
BEC = 99.89 ppb

Weight: <None>
Min Conc: <None>

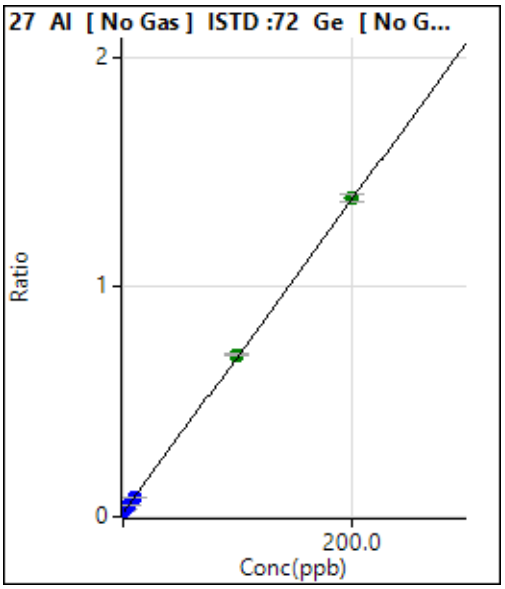
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	600.02	0.0009	P	8.5	
2	☐	200.000	182.986	118456.64	0.1787	P	2.0	-8.5
3	☐	500.000	469.109	301904.35	0.4566	P	0.4	-6.2
4	☐	1000.000	941.005	605420.87	0.9151	P	0.8	-5.9
5	☐	10000.00	9884.032	6343294.70	9.6030	A	0.9	-1.2
6	☐	20000.00	20061.87	12490203.14	19.4905	A	1.2	0.3

y = 9.7148E-004 * x + 9.1242E-004
R = 1.0000
DL = 0.2391 ppb
BEC = 0.9392 ppb

Weight: <None>
Min Conc: <None>

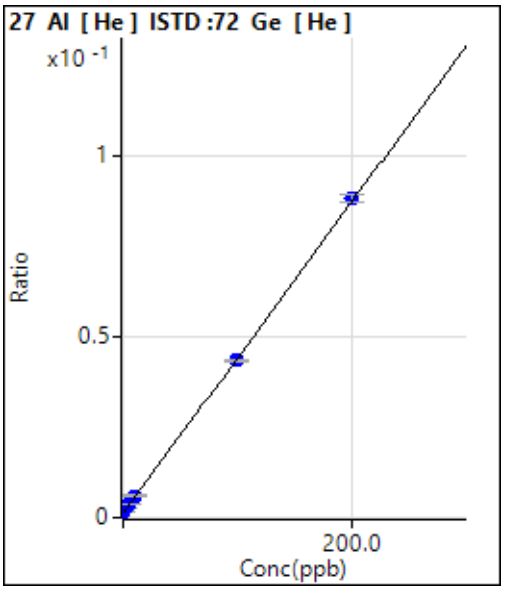


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	65705.01	0.0245	P	3.0	
2	☐	2.000	1.772	96554.98	0.0366	P	1.0	-11.4
3	☐	5.000	4.232	141345.75	0.0533	P	0.7	-15.4
4	☐	10.000	8.965	227274.27	0.0856	P	1.5	-10.4
5	☐	100.000	99.698	1842788.15	0.7033	A	0.9	-0.3
6	☐	200.000	200.224	3532640.26	1.3878	A	2.9	0.1

y = 0.0068 * x + 0.0245
R = 1.0000
DL = 0.3203 ppb
BEC = 3.6 ppb

Weight: <None>
Min Conc: <None>

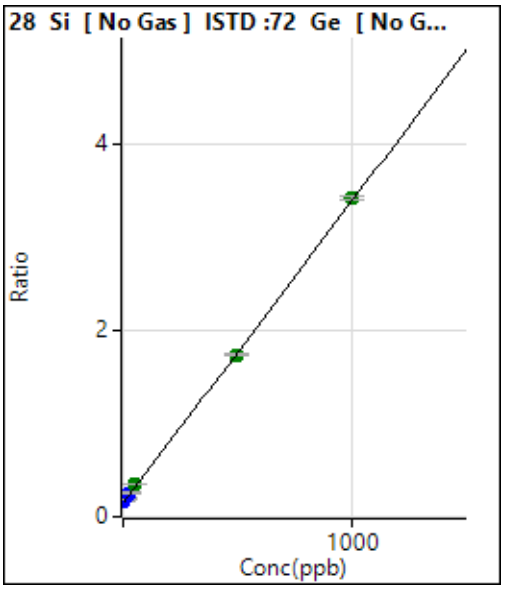
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1080.06	0.0016	P	11.4	
2	☐	2.000	2.085	1683.47	0.0025	P	6.5	4.2
3	☐	5.000	4.670	2413.59	0.0037	P	6.0	-6.6
4	☐	10.000	10.211	3990.65	0.0060	P	5.5	2.1
5	☐	100.000	97.254	28713.27	0.0435	P	1.1	-2.7
6	☐	200.000	201.370	56551.74	0.0882	P	2.0	0.7

y = 4.3003E-004 * x + 0.0016
R = 0.9999
DL = 1.309 ppb
BEC = 3.821 ppb

Weight: <None>
Min Conc: <None>

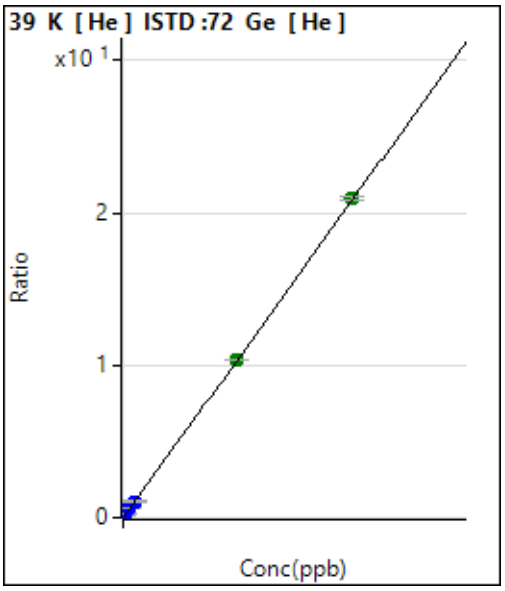


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	435912.31	0.1626	P	1.6	
2	☐	10.000	10.661	520595.15	0.1972	P	1.7	6.6
3	☐	25.000	28.003	671890.73	0.2535	P	5.0	12.0
4	☐	50.000	60.083	950302.98	0.3577	A	1.3	20.2
5	☐	500.000	487.226	4570351.08	1.7443	A	0.8	-2.6
6	☐	1000.000	1005.801	8727300.91	3.4279	A	1.8	0.6

y = 0.0032 * x + 0.1626
R = 0.9998
DL = 2.351 ppb
BEC = 50.09 ppb

Weight: <None>
Min Conc: <None>

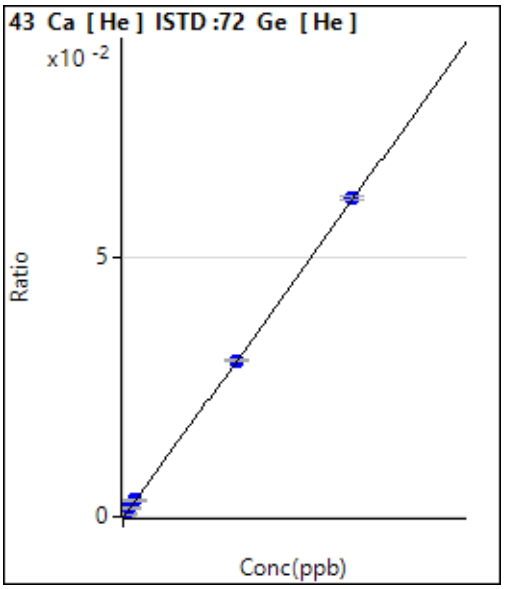
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	60894.31	0.0926	P	0.6	
2	☐	200.000	180.937	186070.70	0.2807	P	1.0	-9.5
3	☐	500.000	467.465	382437.80	0.5785	P	0.9	-6.5
4	☐	1000.000	938.295	706445.56	1.0678	P	1.0	-6.2
5	☐	10000.00	9875.822	6841390.11	10.3565	A	0.4	-1.2
6	☐	20000.00	20066.17	13423836.05	20.9473	A	1.3	0.3

y = 0.0010 * x + 0.0926
R = 1.0000
DL = 1.553 ppb
BEC = 89.11 ppb

Weight: <None>
Min Conc: <None>

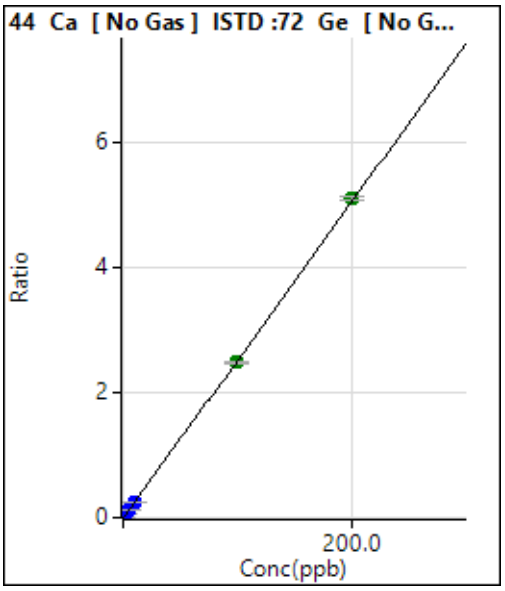


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	33.33	0.0001	P	17.0	
2	☐	200.000	177.243	393.34	0.0006	P	14.3	-11.4
3	☐	500.000	535.441	1116.73	0.0017	P	12.2	7.1
4	☐	1000.000	1032.464	2123.54	0.0032	P	7.0	3.2
5	☐	10000.00	9828.587	19904.65	0.0301	P	1.9	-1.7
6	☐	20000.00	20083.42	39430.08	0.0615	P	0.7	0.4

y = 3.0608E-006 * x + 5.0683E-005
R = 0.9999
DL = 8.455 ppb
BEC = 16.56 ppb

Weight: <None>
Min Conc: <None>

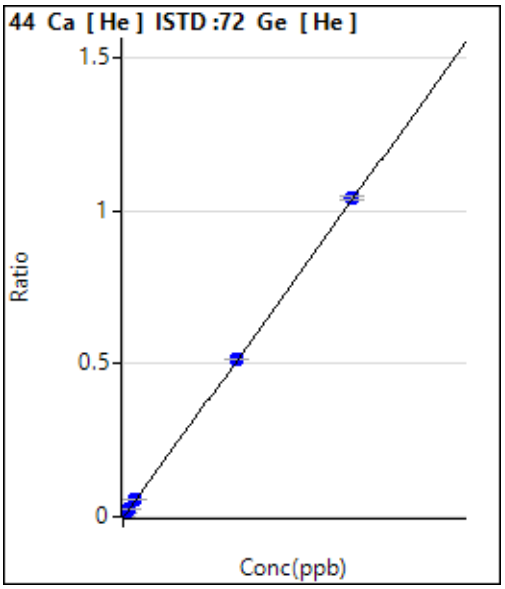
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	40362.69	0.0151	P	2.0	
2	☐	2.000	1.860	163829.87	0.0621	P	0.4	-7.0
3	☐	5.000	4.605	348335.76	0.1314	P	1.3	-7.9
4	☐	10.000	9.325	665941.87	0.2507	P	1.5	-6.8
5	☐	100.000	97.532	6496634.70	2.4795	A	0.8	-2.5
6	☐	200.000	201.279	12987542.72	5.1011	A	1.3	0.6

y = 0.0253 * x + 0.0151
R = 0.9999
DL = 0.03524 ppb
BEC = 0.5959 ppb

Weight: <None>
Min Conc: <None>

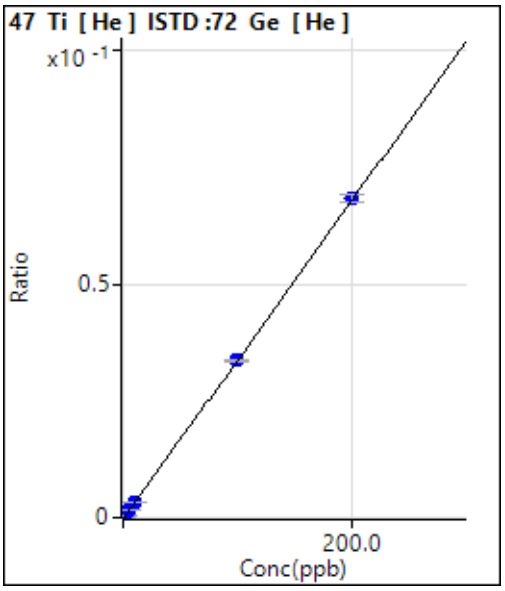


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	866.71	0.0013	P	8.8	
2	☐	200.000	201.636	7802.35	0.0118	P	3.4	0.8
3	☐	500.000	497.077	17905.26	0.0271	P	3.5	-0.6
4	☐	1000.000	1009.379	35482.79	0.0536	P	0.5	0.9
5	☐	10000.00	9863.488	338542.38	0.5125	P	0.5	-1.4
6	☐	20000.00	20067.84	667377.31	1.0414	P	0.7	0.3

y = 5.1826E-005 * x + 0.0013
R = 1.0000
DL = 6.732 ppb
BEC = 25.44 ppb

Weight: <None>
Min Conc: <None>

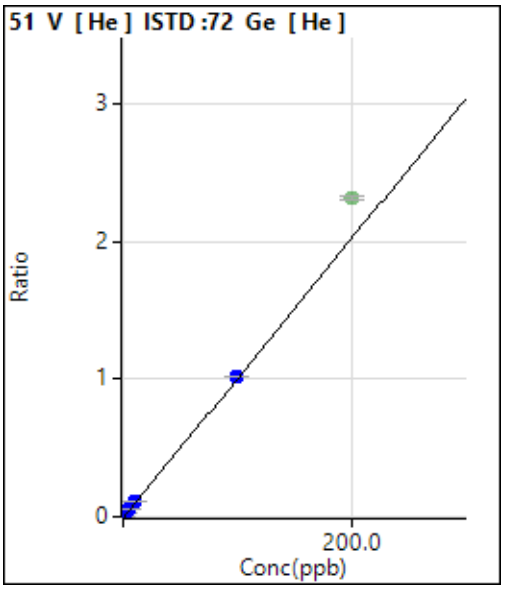
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3.33	0.0000	P	173.2	
2	☐	2.000	1.726	393.34	0.0006	P	5.5	-13.7
3	☐	5.000	5.163	1166.74	0.0018	P	8.9	3.3
4	☐	10.000	9.787	2210.21	0.0033	P	3.0	-2.1
5	☐	100.000	98.864	22264.91	0.0337	P	1.4	-1.1
6	☐	200.000	200.577	43820.08	0.0684	P	2.1	0.3

y = 3.4089E-004 * x + 5.0669E-006
R = 1.0000
DL = 0.07723 ppb
BEC = 0.01486 ppb

Weight: <None>
Min Conc: <None>

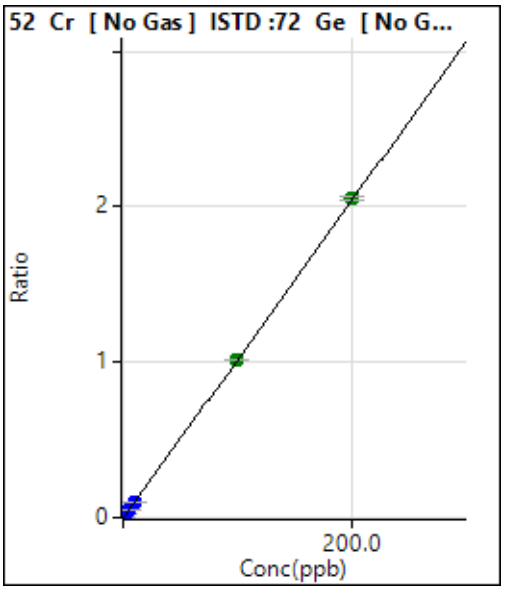


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2029.05	0.0031	P	3.2	
2	☐	2.000	1.944	15133.94	0.0228	P	0.4	-2.8
3	☐	5.000	5.008	35657.36	0.0539	P	0.3	0.2
4	☐	10.000	10.121	70032.30	0.1059	P	0.6	1.2
5	☐	100.000	99.989	672651.52	1.0183	P	0.5	0.0
6	☑	200.000		1484744.73	2.3167	A	0.7	

y = 0.0102 * x + 0.0031
R = 1.0000
DL = 0.02942 ppb
BEC = 0.304 ppb

Weight: <None>
Min Conc: <None>

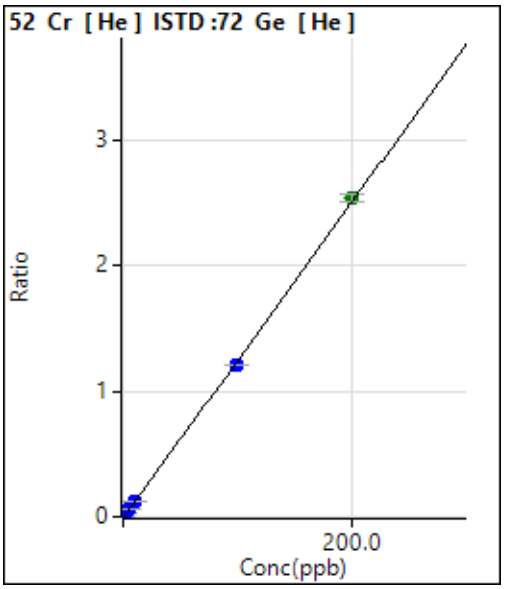
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16219.88	0.0060	P	1.4	
2	☐	2.000	1.909	67472.63	0.0256	P	0.3	-4.6
3	☐	5.000	4.782	145577.58	0.0549	P	1.3	-4.4
4	☐	10.000	9.607	276887.80	0.1042	P	1.7	-3.9
5	☐	100.000	99.053	2668238.09	1.0183	A	0.1	-0.9
6	☐	200.000	200.499	5232630.45	2.0551	A	1.5	0.2

y = 0.0102 * x + 0.0060
R = 1.0000
DL = 0.02465 ppb
BEC = 0.592 ppb

Weight: <None>
Min Conc: <None>

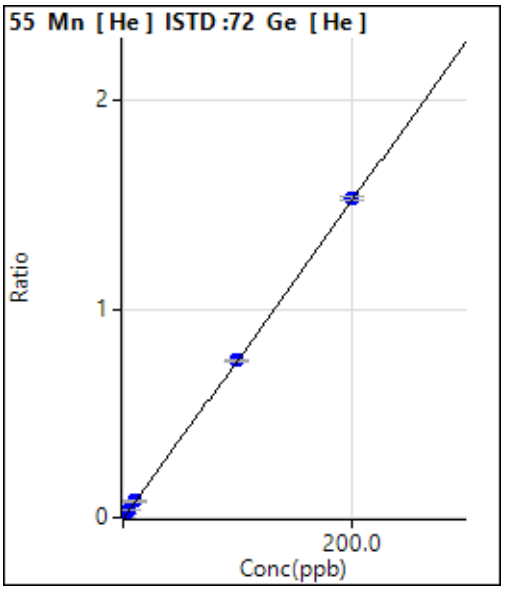


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	670.03	0.0010	P	21.2	
2	☐	2.000	1.929	16777.17	0.0253	P	1.0	-3.5
3	☐	5.000	4.860	41118.73	0.0622	P	1.5	-2.8
4	☐	10.000	10.147	85180.75	0.1288	P	1.2	1.5
5	☐	100.000	96.189	800511.55	1.2118	P	0.4	-3.8
6	☐	200.000	201.902	1629259.56	2.5426	A	1.9	1.0

y = 0.0126 * x + 0.0010
R = 0.9997
DL = 0.05144 ppb
BEC = 0.08099 ppb

Weight: <None>
Min Conc: <None>

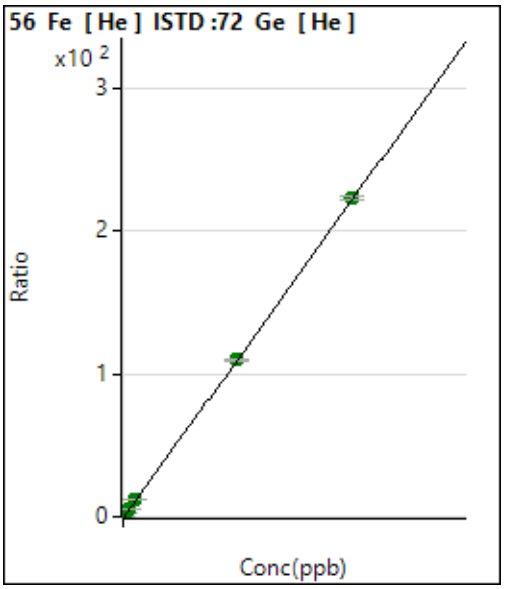
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	523.35	0.0008	P	6.2	
2	☐	2.000	2.043	10854.48	0.0164	P	1.6	2.1
3	☐	5.000	4.989	25677.81	0.0388	P	0.5	-0.2
4	☐	10.000	10.184	51911.96	0.0785	P	1.6	1.8
5	☐	100.000	98.551	496895.85	0.7522	P	0.8	-1.4
6	☐	200.000	200.715	981274.15	1.5312	P	1.1	0.4

y = 0.0076 * x + 7.9600E-004
R = 1.0000
DL = 0.01926 ppb
BEC = 0.1044 ppb

Weight: <None>
Min Conc: <None>

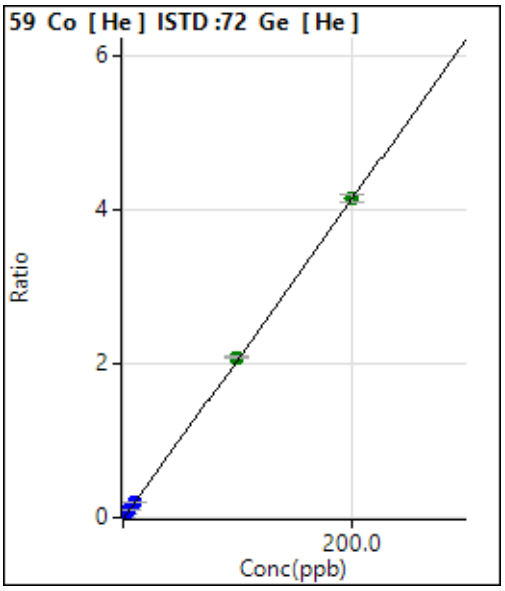


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10230.64	0.0156	P	4.6	
2	☐	200.000	210.687	1563729.14	2.3587	A	1.1	5.3
3	☐	500.000	520.536	3837772.24	5.8046	A	1.1	4.1
4	☐	1000.000	1033.233	7613077.60	11.5064	A	0.6	3.3
5	☐	10000.00	9879.855	72588030.58	109.892	A	1.2	-1.2
6	☐	20000.00	20057.79	142964107.8	223.083	A	0.9	0.3

y = 0.0111 * x + 0.0156
R = 1.0000
DL = 0.1935 ppb
BEC = 1.399 ppb

Weight: <None>
Min Conc: <None>

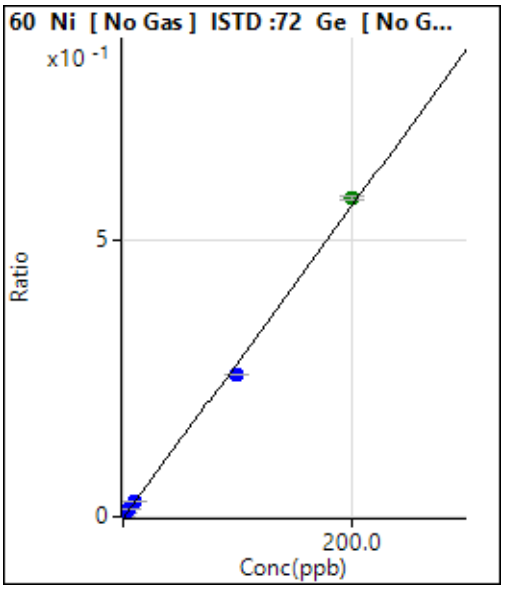
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	30.00	0.0000	P	33.7	
2	☐	2.000	1.888	26041.80	0.0393	P	0.6	-5.6
3	☐	5.000	4.775	65637.85	0.0993	P	1.7	-4.5
4	☐	10.000	9.631	132455.98	0.2002	P	0.3	-3.7
5	☐	100.000	100.465	1379090.45	2.0878	A	0.6	0.5
6	☐	200.000	199.793	2660178.66	4.1518	A	3.0	-0.1

y = 0.0208 * x + 4.5665E-005
R = 1.0000
DL = 0.00222 ppb
BEC = 0.002197 ppb

Weight: <None>
Min Conc: <None>

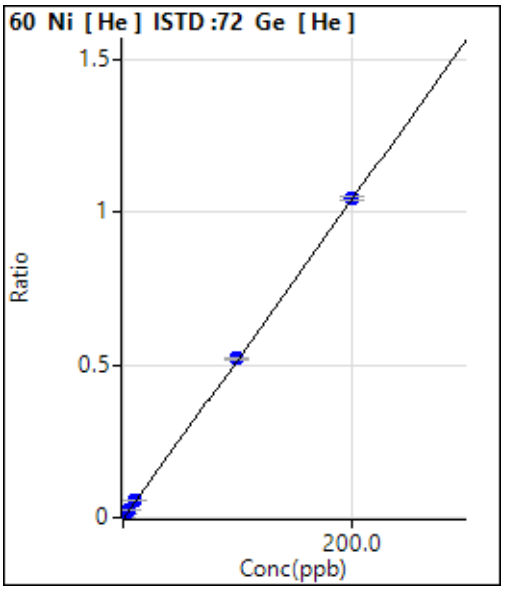


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	556.69	0.0002	P	21.4	
2	☐	2.000	1.836	14234.32	0.0054	P	1.8	-8.2
3	☐	5.000	4.722	35890.83	0.0135	P	1.3	-5.6
4	☐	10.000	9.487	71725.08	0.0270	P	1.8	-5.1
5	☐	100.000	91.407	676830.25	0.2583	P	0.5	-8.6
6	☐	200.000	204.331	1469508.52	0.5772	A	1.2	2.2

y = 0.0028 * x + 2.0762E-004
R = 0.9987
DL = 0.04719 ppb
BEC = 0.07353 ppb

Weight: <None>
Min Conc: <None>

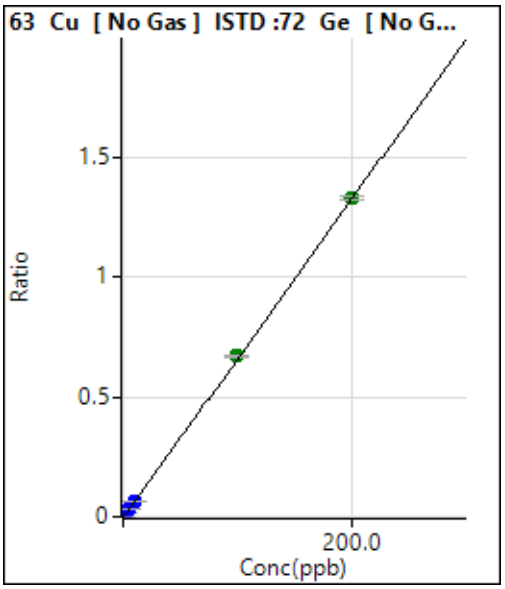
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	276.68	0.0004	P	13.4	
2	☐	2.000	2.005	7215.36	0.0109	P	2.5	0.3
3	☐	5.000	5.132	17978.73	0.0272	P	1.7	2.6
4	☐	10.000	10.480	36449.14	0.0551	P	0.9	4.8
5	☐	100.000	99.812	344224.76	0.5211	P	1.6	-0.2
6	☐	200.000	200.067	669120.80	1.0442	P	1.3	0.0

y = 0.0052 * x + 4.2072E-004
R = 1.0000
DL = 0.03246 ppb
BEC = 0.08064 ppb

Weight: <None>
Min Conc: <None>

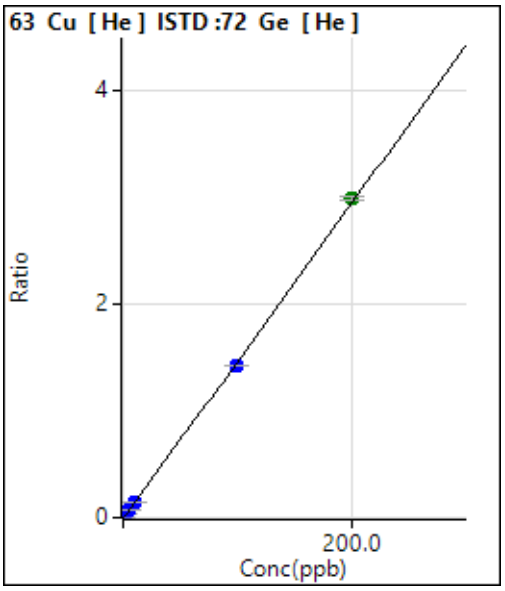


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2386.93	0.0009	P	8.0	
2	☑	2.000		34901.80	0.0132	P	0.1	
3	☐	5.000	4.798	87107.98	0.0329	P	1.1	-4.0
4	☐	10.000	9.687	173857.29	0.0654	P	1.2	-3.1
5	☐	100.000	100.447	1756140.65	0.6702	A	0.4	0.4
6	☐	200.000	199.797	3392010.36	1.3323	A	1.0	-0.1

y = 0.0067 * x + 8.9062E-004
R = 1.0000
DL = 0.03225 ppb
BEC = 0.1337 ppb

Weight: <None>
Min Conc: <None>

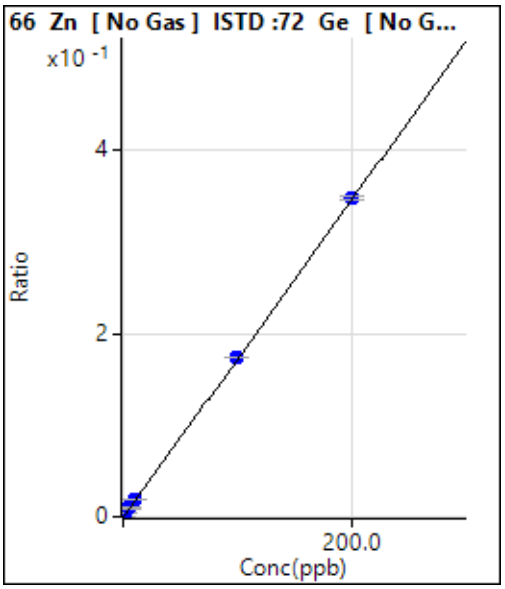
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1343.43	0.0020	P	9.7	
2	☑	2.000		20181.98	0.0304	P	0.9	
3	☐	5.000	4.887	49072.12	0.0742	P	1.2	-2.3
4	☐	10.000	10.012	99197.14	0.1499	P	0.9	0.1
5	☐	100.000	95.959	937624.31	1.4195	P	0.8	-4.0
6	☐	200.000	202.023	1914011.95	2.9861	A	1.5	1.0

y = 0.0148 * x + 0.0020
R = 0.9997
DL = 0.04043 ppb
BEC = 0.1383 ppb

Weight: <None>
Min Conc: <None>

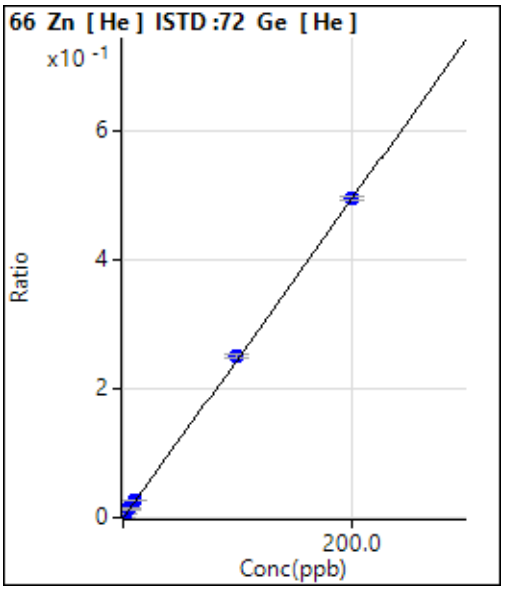


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2380.25	0.0009	P	2.9	
2	☐	2.000	1.820	10667.74	0.0040	P	3.3	-9.0
3	☐	5.000	5.009	25350.67	0.0096	P	3.3	0.2
4	☐	10.000	10.043	48583.76	0.0183	P	0.8	0.4
5	☐	100.000	99.483	453883.59	0.1732	P	0.3	-0.5
6	☐	200.000	200.258	885518.92	0.3478	P	0.9	0.1

y = 0.0017 * x + 8.8780E-004
R = 1.0000
DL = 0.04437 ppb
BEC = 0.5125 ppb

Weight: <None>
Min Conc: <None>

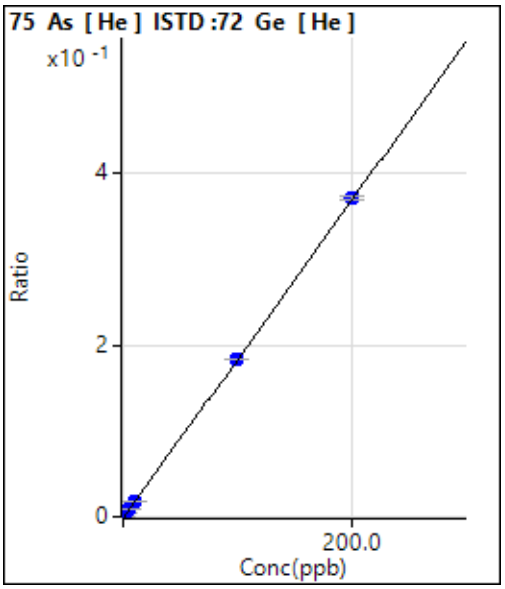
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	860.04	0.0013	P	9.2	
2	☐	2.000	1.714	3677.23	0.0055	P	4.5	-14.3
3	☐	5.000	4.898	8873.08	0.0134	P	1.9	-2.0
4	☐	10.000	9.986	17204.47	0.0260	P	1.6	-0.1
5	☐	100.000	100.860	165625.06	0.2507	P	1.7	0.9
6	☐	200.000	199.576	317135.60	0.4949	P	0.8	-0.2

y = 0.0025 * x + 0.0013
R = 1.0000
DL = 0.1454 ppb
BEC = 0.529 ppb

Weight: <None>
Min Conc: <None>

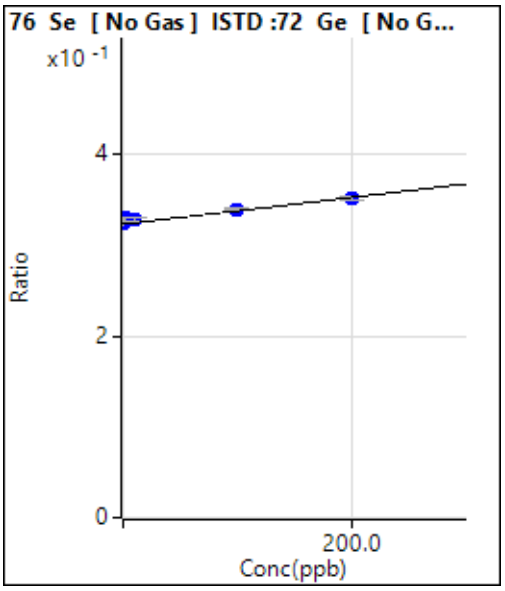


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	106.67	0.0002	P	37.2	
2	☐	2.000	1.982	2539.14	0.0038	P	4.8	-0.9
3	☐	5.000	4.949	6160.32	0.0093	P	0.8	-1.0
4	☐	10.000	9.960	12301.22	0.0186	P	1.5	-0.4
5	☐	100.000	98.916	120996.28	0.1832	P	0.5	-1.1
6	☐	200.000	200.545	237884.88	0.3712	P	0.8	0.3

y = 0.0019 * x + 1.6238E-004
R = 1.0000
DL = 0.09797 ppb
BEC = 0.08777 ppb

Weight: <None>
Min Conc: <None>

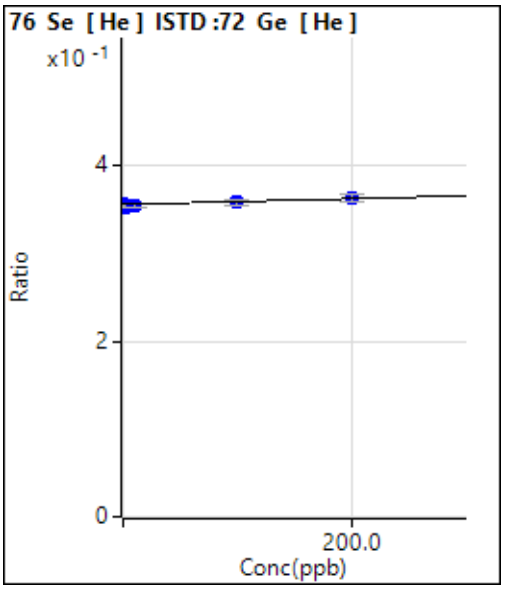
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	867100.43	0.3234	P	0.5	
2	☐	2.000	47.051	872261.44	0.3304	P	1.4	2252.5
3	☐	5.000	37.649	872124.41	0.3290	P	0.5	653.0
4	☐	10.000	38.079	874291.47	0.3291	P	1.2	280.8
5	☐	100.000	110.723	890657.64	0.3399	P	0.3	10.7
6	☐	200.000	191.968	896215.40	0.3520	P	1.3	-4.0

y = 1.4893E-004 * x + 0.3234
R = 0.9764
DL = 35.83 ppb
BEC = 2172 ppb

Weight: <None>
Min Conc: <None>

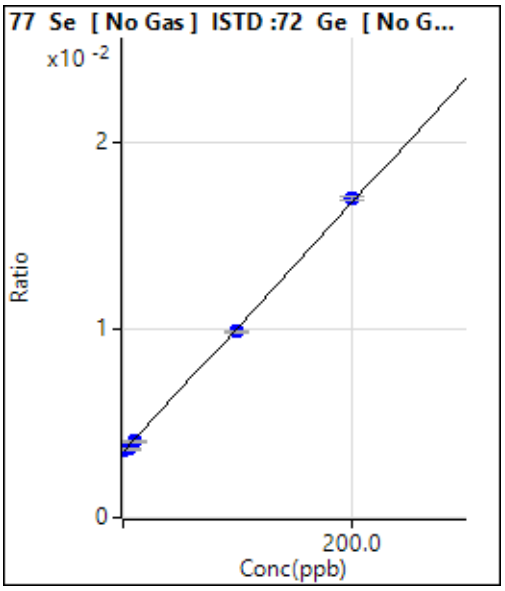


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	234088.77	0.3560	P	0.6	
2	☐	2.000	-87.739	234090.09	0.3531	P	1.2	-4487.
3	☐	5.000	-46.731	234357.57	0.3545	P	0.4	-1034.
4	☐	10.000	-31.416	234853.93	0.3550	P	0.8	-414.2
5	☐	100.000	64.213	236598.69	0.3582	P	1.4	-35.8
6	☐	200.000	222.155	232908.09	0.3635	P	2.1	11.1

y = 3.3483E-005 * x + 0.3560
R = 0.9626
DL = 182.9 ppb
BEC = 1.063E+04 ppb

Weight: <None>
Min Conc: <None>

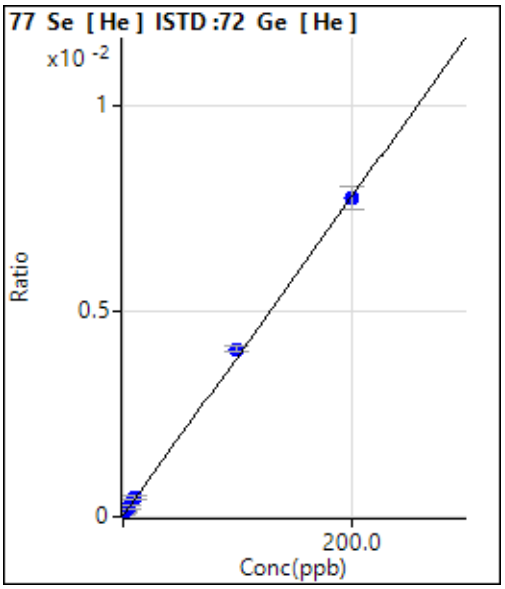
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	9657.00	0.0036	P	2.2	
2	☐	2.000	1.935	9847.07	0.0037	P	1.7	-3.3
3	☐	5.000	0.952	9713.67	0.0037	P	3.5	-81.0
4	☐	10.000	7.132	10824.51	0.0041	P	1.4	-28.7
5	☐	100.000	95.388	26002.05	0.0099	P	1.0	-4.6
6	☐	200.000	202.551	43350.12	0.0170	P	0.7	1.3

y = 6.6271E-005 * x + 0.0036
R = 0.9995
DL = 3.587 ppb
BEC = 54.35 ppb

Weight: <None>
Min Conc: <None>

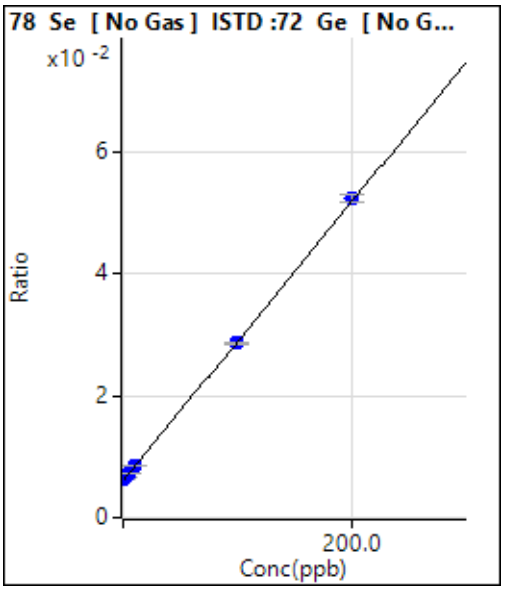


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	40.00	0.0001	P	90.1	
2	☐	2.000	1.539	80.00	0.0001	P	44.9	-23.0
3	☐	5.000	4.544	156.67	0.0002	P	29.0	-9.1
4	☐	10.000	10.771	316.68	0.0005	P	18.9	7.7
5	☐	100.000	103.476	2690.31	0.0041	P	3.7	3.5
6	☐	200.000	198.239	4960.99	0.0077	P	6.9	-0.9

y = 3.8765E-005 * x + 6.0915E-005
R = 0.9998
DL = 4.245 ppb
BEC = 1.571 ppb

Weight: <None>
Min Conc: <None>

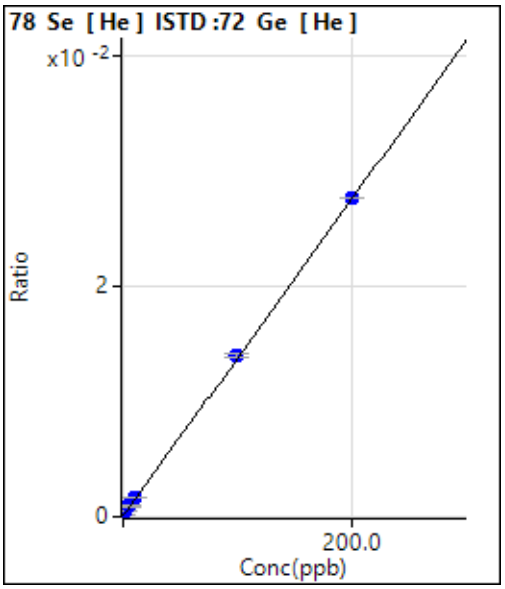
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16994.29	0.0063	P	4.0	
2	☐	2.000	1.419	17591.69	0.0067	P	3.0	-29.1
3	☐	5.000	4.091	19287.34	0.0073	P	1.9	-18.2
4	☐	10.000	9.588	22676.05	0.0085	P	0.3	-4.1
5	☐	100.000	97.245	74944.65	0.0286	P	0.6	-2.8
6	☐	200.000	201.427	133530.89	0.0525	P	2.3	0.7

y = 2.2894E-004 * x + 0.0063
R = 0.9999
DL = 3.364 ppb
BEC = 27.69 ppb

Weight: <None>
Min Conc: <None>

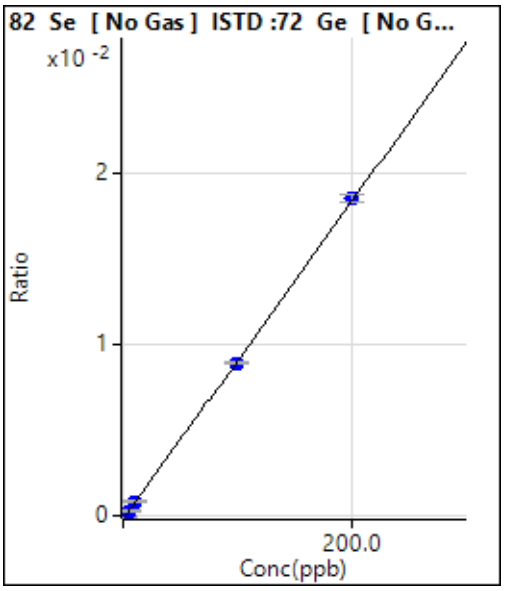


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	127.33	0.0002	P	11.4	
2	☐	2.000	2.055	316.00	0.0005	P	10.8	2.8
3	☐	5.000	5.334	613.35	0.0009	P	3.7	6.7
4	☐	10.000	10.436	1078.71	0.0016	P	2.5	4.4
5	☐	100.000	100.293	9245.19	0.0140	P	1.5	0.3
6	☐	200.000	199.823	17749.67	0.0277	P	0.1	-0.1

y = 1.3763E-004 * x + 1.9372E-004
R = 1.0000
DL = 0.481 ppb
BEC = 1.408 ppb

Weight: <None>
Min Conc: <None>

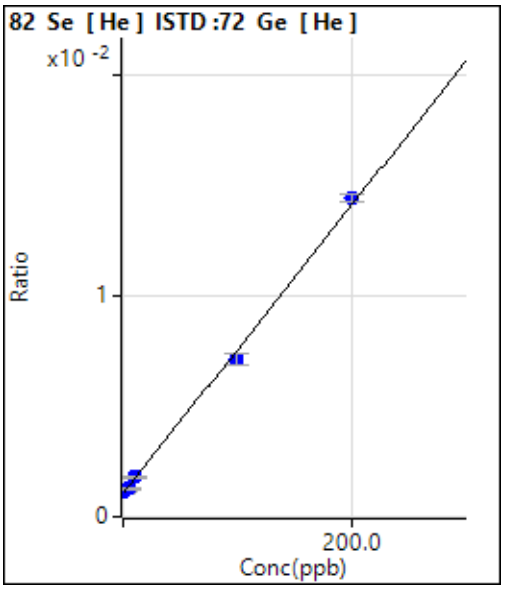
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-233.81	-0.0001	P	-84.3	
2	☐	2.000	0.900	-11.03	0.0000	P	-1614.	-55.0
3	☐	5.000	4.061	764.80	0.0003	P	25.3	-18.8
4	☐	10.000	10.263	2289.81	0.0009	P	22.7	2.6
5	☐	100.000	97.307	23382.05	0.0089	P	0.8	-2.7
6	☐	200.000	201.368	47249.23	0.0186	P	2.3	0.7

y = 9.2607E-005 * x - 8.7505E-005
R = 0.9999
DL = 2.39 ppb
BEC = -0.9449 ppb

Weight: <None>
Min Conc: <None>

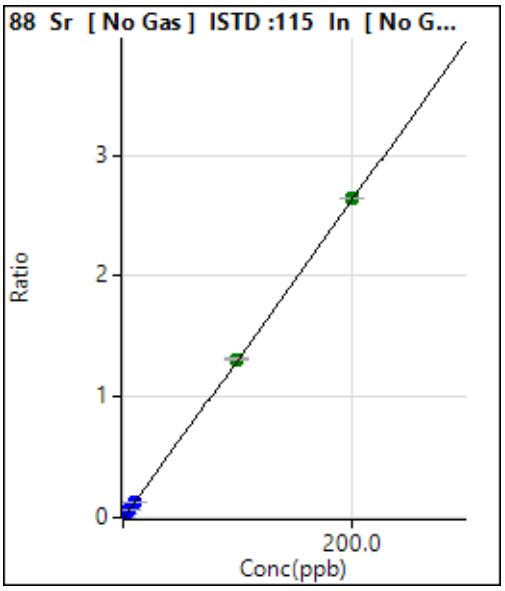


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	746.70	0.0011	P	12.7	
2	☐	2.000	0.862	790.04	0.0012	P	4.2	-56.9
3	☐	5.000	2.383	853.38	0.0013	P	5.2	-52.3
4	☐	10.000	9.939	1180.08	0.0018	P	9.0	-0.6
5	☐	100.000	92.353	4730.91	0.0072	P	7.2	-7.6
6	☐	200.000	203.903	9256.64	0.0144	P	2.2	2.0

y = 6.5277E-005 * x + 0.0011
R = 0.9990
DL = 6.612 ppb
BEC = 17.39 ppb

Weight: <None>
Min Conc: <None>

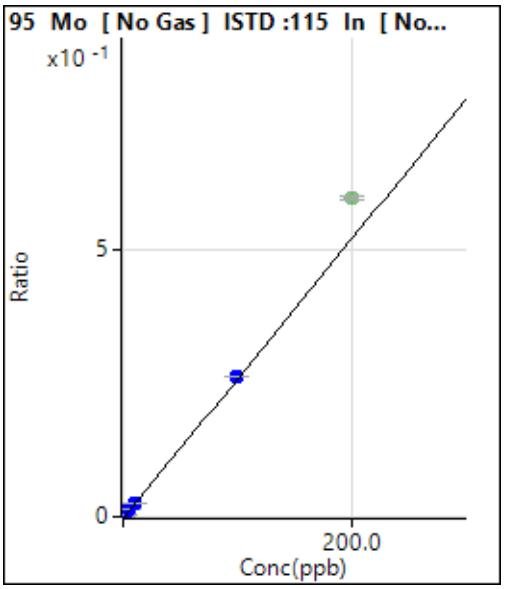
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2827.02	0.0010	P	6.7	
2	☐	2.000	1.886	75724.08	0.0258	P	3.1	-5.7
3	☐	5.000	4.706	188644.75	0.0630	P	1.8	-5.9
4	☐	10.000	9.593	376917.04	0.1273	P	0.8	-4.1
5	☐	100.000	99.062	3776048.28	1.3059	A	1.1	-0.9
6	☐	200.000	200.498	7461490.31	2.6422	A	0.5	0.2

y = 0.0132 * x + 9.6038E-004
R = 1.0000
DL = 0.01466 ppb
BEC = 0.0729 ppb

Weight: <None>
Min Conc: <None>

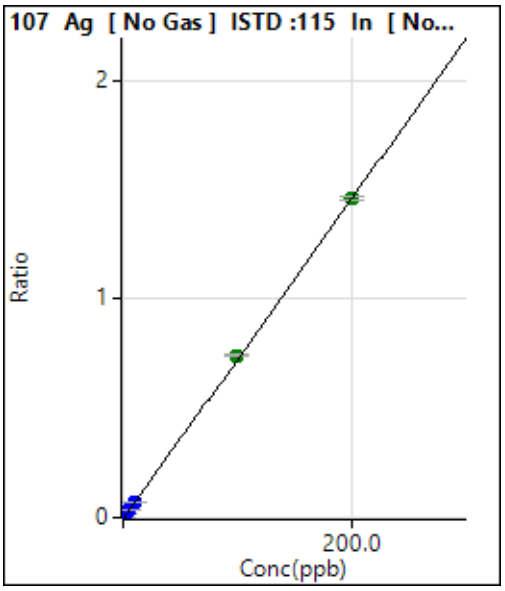


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	30.00	0.0000	P	57.5	
2	☐	2.000	1.986	15282.29	0.0052	P	0.6	-0.7
3	☐	5.000	4.957	38903.83	0.0130	P	1.9	-0.9
4	☐	10.000	10.012	77581.99	0.0262	P	2.5	0.1
5	☐	100.000	100.001	756689.18	0.2617	P	0.1	0.0
6	☑	200.000		1687039.97	0.5974	A	1.4	

y = 0.0026 * x + 1.0179E-005
R = 1.0000
DL = 0.006714 ppb
BEC = 0.00389 ppb

Weight: <None>
Min Conc: <None>

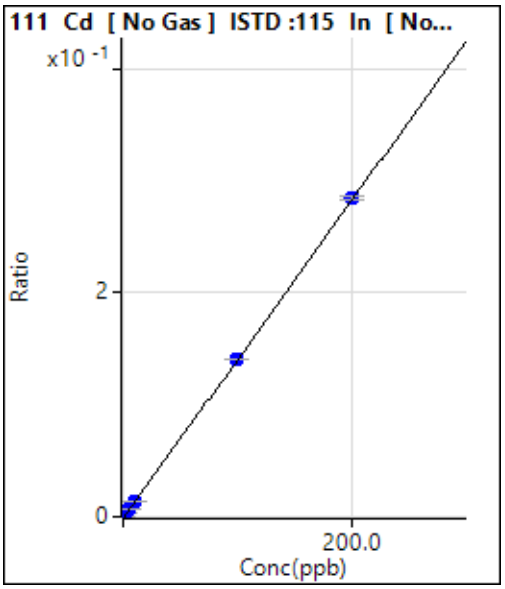
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	610.02	0.0002	P	16.4	
2	☐	2.000	1.914	41739.53	0.0142	P	1.2	-4.3
3	☐	5.000	4.701	103751.82	0.0346	P	3.0	-6.0
4	☐	10.000	9.563	207857.65	0.0702	P	1.0	-4.4
5	☐	100.000	101.363	2146398.98	0.7423	A	0.9	1.4
6	☐	200.000	199.349	4121936.09	1.4596	A	0.8	-0.3

y = 0.0073 * x + 2.0775E-004
R = 1.0000
DL = 0.01399 ppb
BEC = 0.02838 ppb

Weight: <None>
Min Conc: <None>

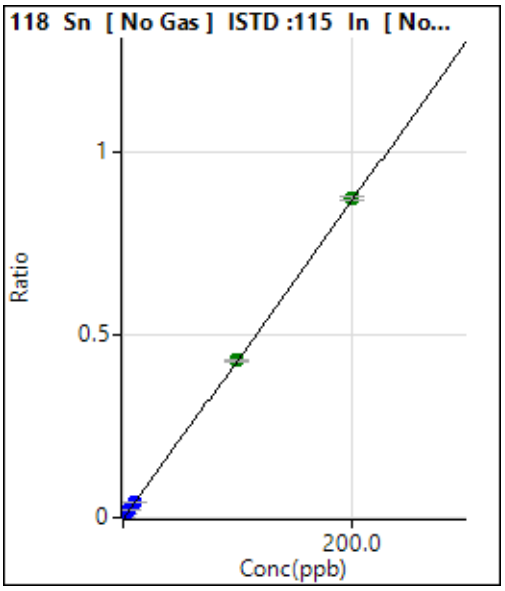


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	86.6	
2	☐	2.000	1.962	8172.68	0.0028	P	2.4	-1.9
3	☐	5.000	4.954	21070.36	0.0070	P	0.8	-0.9
4	☐	10.000	9.960	41836.51	0.0141	P	0.5	-0.4
5	☐	100.000	98.804	405325.23	0.1402	P	0.4	-1.2
6	☐	200.000	200.602	803694.23	0.2846	P	0.7	0.3

y = 0.0014 * x + 2.2508E-006
R = 1.0000
DL = 0.004123 ppb
BEC = 0.001587 ppb

Weight: <None>
Min Conc: <None>

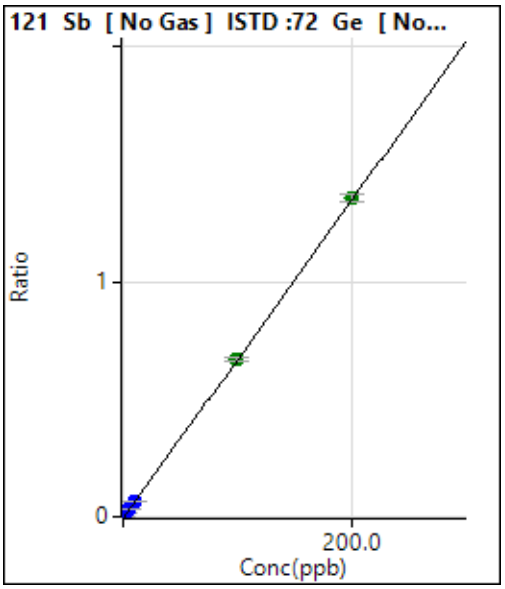
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1403.48	0.0005	P	7.6	
2	☐	2.000	1.819	24613.35	0.0084	P	2.2	-9.1
3	☐	5.000	4.465	59618.46	0.0199	P	2.1	-10.7
4	☐	10.000	9.110	118699.06	0.0401	P	1.8	-8.9
5	☐	100.000	98.568	1240955.63	0.4292	A	0.6	-1.4
6	☐	200.000	200.776	2467263.97	0.8737	A	0.6	0.4

y = 0.0043 * x + 4.7757E-004
R = 1.0000
DL = 0.02491 ppb
BEC = 0.1098 ppb

Weight: <None>
Min Conc: <None>

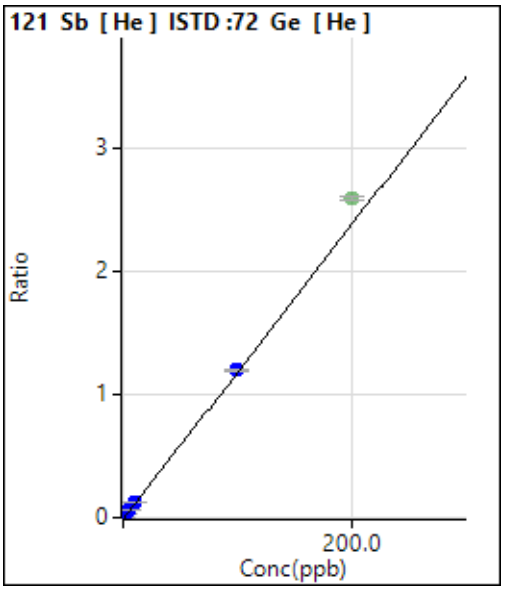


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	550.02	0.0002	P	16.2	
2	☐	2.000	1.883	34154.73	0.0129	P	1.2	-5.8
3	☐	5.000	4.689	84574.79	0.0319	P	0.9	-6.2
4	☐	10.000	9.430	169940.20	0.0640	P	0.8	-5.7
5	☐	100.000	98.971	1753740.91	0.6694	A	1.6	-1.0
6	☐	200.000	200.552	3452392.24	1.3561	A	2.1	0.3

y = 0.0068 * x + 2.0504E-004
R = 1.0000
DL = 0.0147 ppb
BEC = 0.03033 ppb

Weight: <None>
Min Conc: <None>

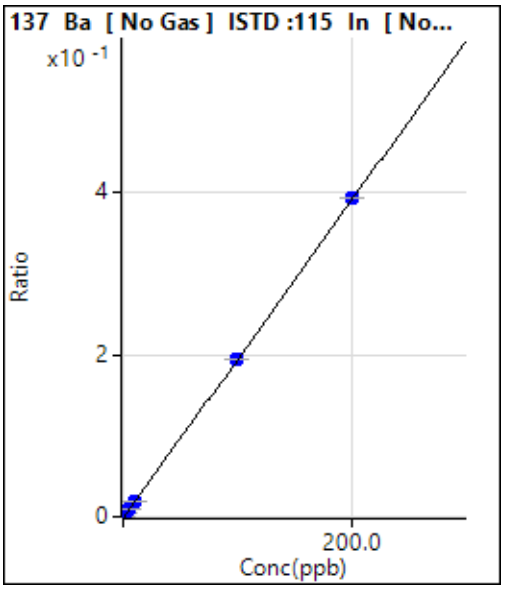
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	260.01	0.0004	P	11.4	
2	☐	2.000	1.988	16026.72	0.0242	P	2.0	-0.6
3	☐	5.000	5.130	40834.01	0.0618	P	0.5	2.6
4	☐	10.000	10.067	79939.39	0.1208	P	1.2	0.7
5	☐	100.000	99.987	790266.71	1.1964	P	1.0	0.0
6	☑	200.000		1662357.32	2.5936	A	0.8	

y = 0.0120 * x + 3.9543E-004
R = 1.0000
DL = 0.0113 ppb
BEC = 0.03306 ppb

Weight: <None>
Min Conc: <None>

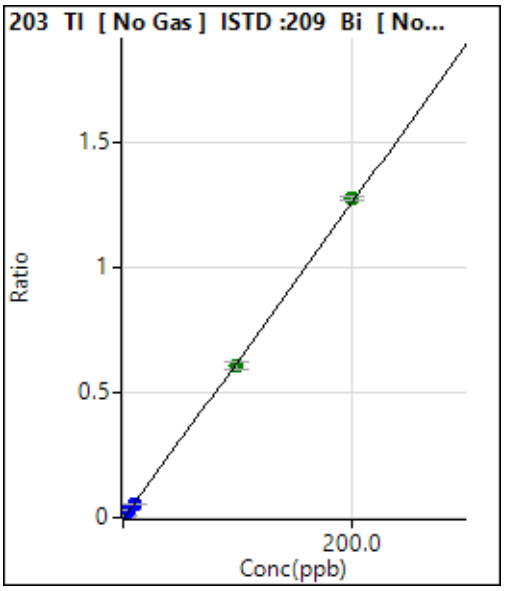


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	460.02	0.0002	P	8.6	
2	☐	2.000	1.985	11882.28	0.0040	P	2.3	-0.7
3	☐	5.000	4.741	28324.58	0.0095	P	2.5	-5.2
4	☐	10.000	9.676	56626.81	0.0191	P	1.5	-3.2
5	☐	100.000	99.151	562551.02	0.1946	P	0.6	-0.8
6	☐	200.000	200.447	1110277.38	0.3932	P	0.1	0.2

y = 0.0020 * x + 1.5632E-004
R = 1.0000
DL = 0.02066 ppb
BEC = 0.07973 ppb

Weight: <None>
Min Conc: <None>

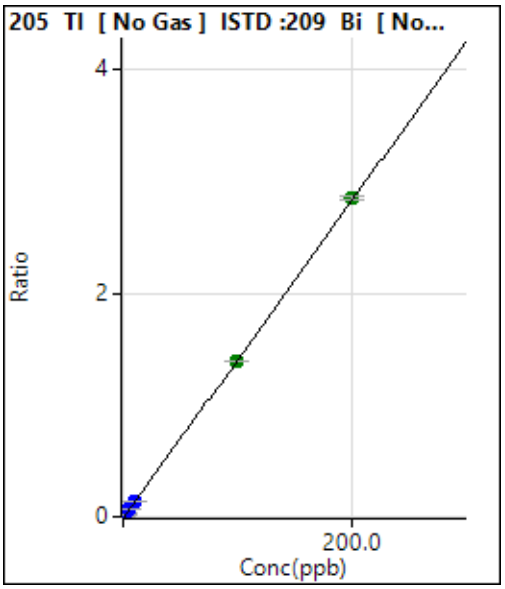
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	30.00	0.0000	P	57.8	
2	☐	2.000	1.728	27433.86	0.0110	P	1.0	-13.6
3	☐	5.000	4.388	69358.77	0.0278	P	0.8	-12.2
4	☐	10.000	8.760	139644.33	0.0555	P	1.5	-12.4
5	☐	100.000	96.145	1488070.92	0.6092	A	3.8	-3.9
6	☐	200.000	202.007	2985107.77	1.2800	A	1.6	1.0

y = 0.0063 * x + 1.2208E-005
R = 0.9997
DL = 0.003341 ppb
BEC = 0.001927 ppb

Weight: <None>
Min Conc: <None>

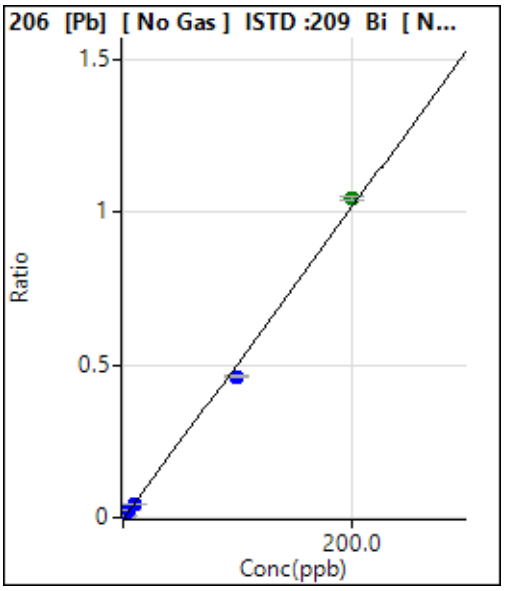


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	56.67	0.0000	P	10.3	
2	☐	2.000	1.812	64386.00	0.0257	P	1.9	-9.4
3	☐	5.000	4.640	164237.04	0.0659	P	0.4	-7.2
4	☐	10.000	9.335	333258.13	0.1325	P	1.1	-6.6
5	☐	100.000	98.330	3409236.61	1.3953	A	0.3	-1.7
6	☐	200.000	200.879	6648002.82	2.8504	A	1.0	0.4

y = 0.0142 * x + 2.3056E-005
R = 1.0000
DL = 0.0005012 ppb
BEC = 0.001625 ppb

Weight: <None>
Min Conc: <None>

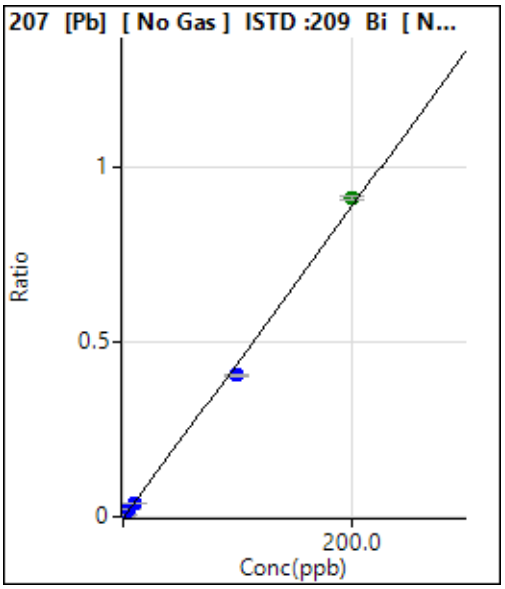
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	333.34	0.0001	P	27.2	
2	☐	2.000	1.755	22737.79	0.0091	P	2.0	-12.3
3	☐	5.000	4.454	56979.92	0.0229	P	1.4	-10.9
4	☐	10.000	9.063	116618.92	0.0464	P	0.8	-9.4
5	☐	100.000	90.338	1126063.24	0.4609	P	0.9	-9.7
6	☐	200.000	204.894	2437566.79	1.0452	A	1.2	2.4

y = 0.0051 * x + 1.3560E-004
R = 0.9984
DL = 0.02169 ppb
BEC = 0.02659 ppb

Weight: <None>
Min Conc: <None>

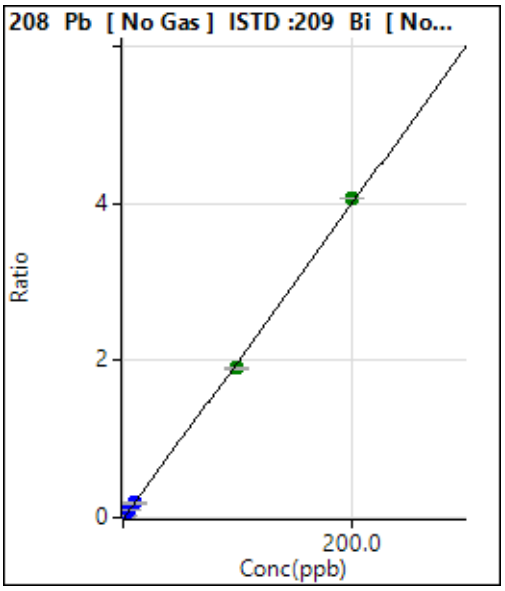


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	303.34	0.0001	P	26.8	
2	☐	2.000	1.758	19862.85	0.0079	P	1.6	-12.1
3	☐	5.000	4.467	49812.97	0.0200	P	1.2	-10.7
4	☐	10.000	9.060	101605.69	0.0404	P	1.7	-9.4
5	☐	100.000	90.714	985408.79	0.4033	P	0.6	-9.3
6	☐	200.000	204.706	2122367.62	0.9100	A	0.8	2.4

y = 0.0044 * x + 1.2340E-004
R = 0.9985
DL = 0.02233 ppb
BEC = 0.02776 ppb

Weight: <None>
Min Conc: <None>

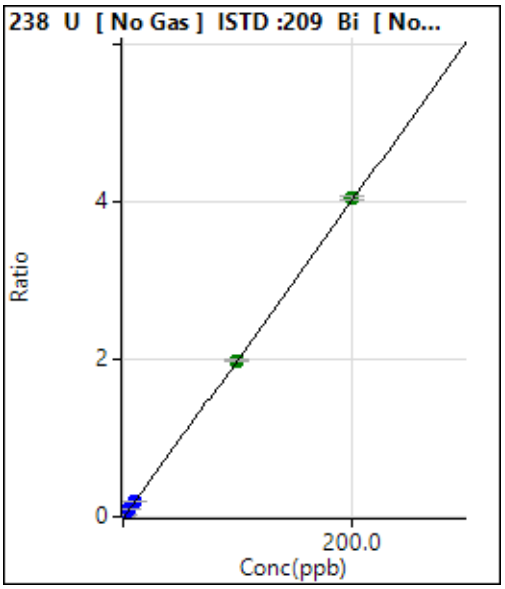
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1456.73	0.0006	P	16.4	
2	☐	2.000	1.783	91095.31	0.0364	P	0.9	-10.8
3	☐	5.000	4.545	229078.83	0.0919	P	0.9	-9.1
4	☐	10.000	9.143	463405.32	0.1842	P	0.8	-8.6
5	☐	100.000	94.807	4653264.85	1.9047	A	1.3	-5.2
6	☐	200.000	202.653	9494265.59	4.0707	A	0.5	1.3

y = 0.0201 * x + 5.9261E-004
R = 0.9995
DL = 0.01453 ppb
BEC = 0.02951 ppb

Weight: <None>
Min Conc: <None>

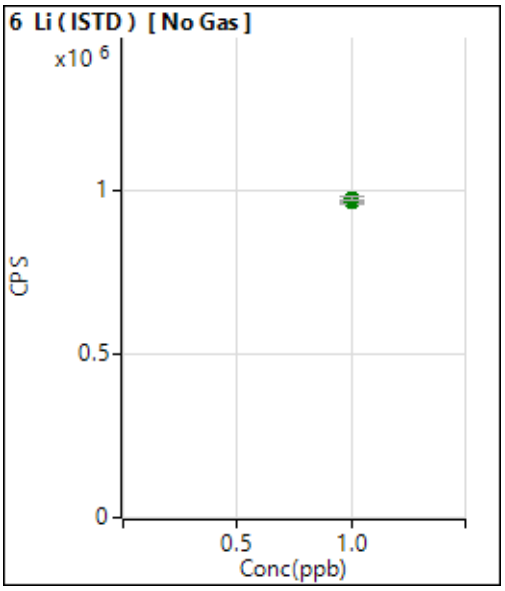


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	30.00	0.0000	P	33.2	
2	☐	2.000	1.788	90170.98	0.0360	P	0.1	-10.6
3	☐	5.000	4.591	230704.39	0.0925	P	0.8	-8.2
4	☐	10.000	9.283	470445.41	0.1870	P	0.5	-7.2
5	☐	100.000	98.171	4831913.99	1.9778	A	1.3	-1.8
6	☐	200.000	200.963	9442764.23	4.0487	A	0.8	0.5

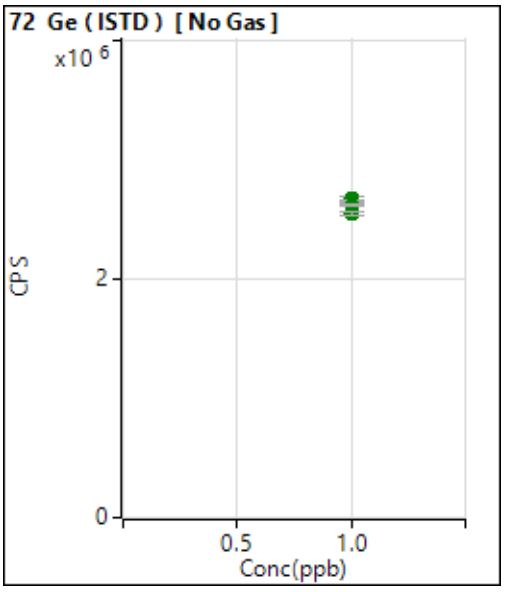
y = 0.0201 * x + 1.2203E-005
R = 0.9999
DL = 0.000604 ppb
BEC = 0.0006057 ppb

Weight: <None>
Min Conc: <None>

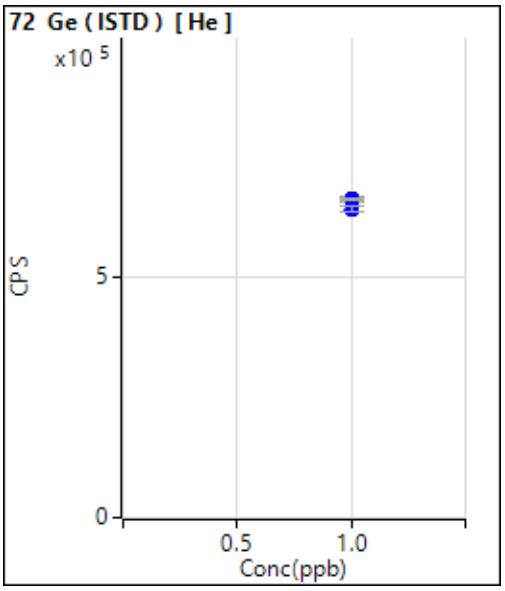
Calibration for 022_ICV.d



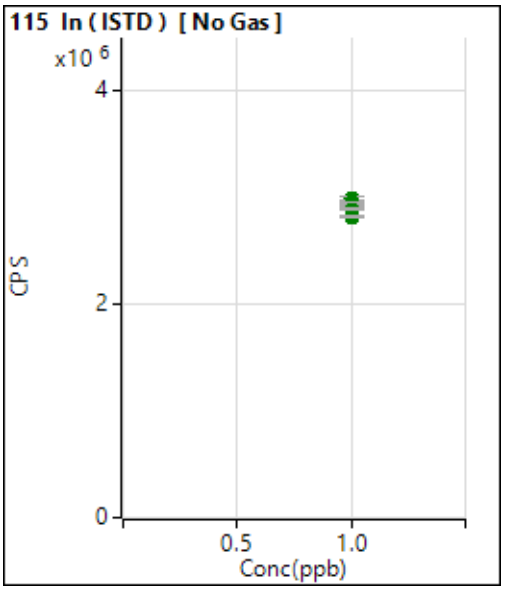
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		973852.57		A	1.0	
2	☐	1.000		961134.32		A	0.4	
3	☐	1.000		964843.72		A	0.4	
4	☐	1.000		962277.35		A	1.5	
5	☐	1.000		963971.46		A	1.3	
6	☐	1.000		973684.89		A	0.9	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2680899.65		A	0.6	
2	☐	1.000		2639898.76		A	0.9	
3	☐	1.000		2650531.53		A	0.3	
4	☐	1.000		2656779.75		A	1.0	
5	☐	1.000		2620173.09		A	0.6	
6	☐	1.000		2546194.55		A	1.3	

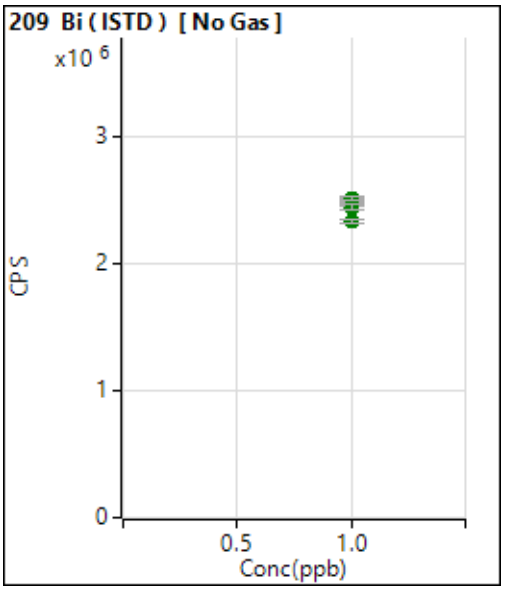


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		657482.18		P	0.4	
2	☐	1.000		662975.93		P	0.2	
3	☐	1.000		661147.59		P	0.4	
4	☐	1.000		661636.74		P	1.2	
5	☐	1.000		660575.08		P	0.7	
6	☐	1.000		640902.97		P	1.4	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2941541.56		A	1.8	
2	☐	1.000		2934786.00		A	0.7	
3	☐	1.000		2996984.88		A	1.0	
4	☐	1.000		2960323.59		A	0.6	
5	☐	1.000		2891563.56		A	0.5	
6	☐	1.000		2824021.70		A	0.5	

Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2457983.87		A	0.1	
2	☐	1.000		2502408.92		A	1.0	
3	☐	1.000		2493699.28		A	1.7	
4	☐	1.000		2515456.16		A	0.7	
5	☐	1.000		2443436.99		A	1.9	
6	☐	1.000		2332437.72		A	1.1	

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	015CALB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T12:27:53-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	53562	0.00
Be	9	1	No Gas	23	280.57
V	51	2	He	2029	0.15
Cr	52	2	He	670	3.12
Fe	56	2	He	10231	0.04
Se	78	2	He	127	8.66
As	75	2	He	107	34.54
Ca	44	2	He	867	0.98
Na	23	2	He	113949	0.00
Mg	24	2	He	600	1.47
K	39	2	He	60894	0.00
Mn	55	2	He	523	1.17
Co	59	2	He	30	111.11
Ni	60	2	He	277	4.95
Cu	63	2	He	1343	0.72
Zn	66	2	He	860	1.06
Al	27	2	He	1080	1.04
B	11	1	No Gas	7292	0.04
Al	27	1	No Gas	65705	0.00
Si	28	1	No Gas	435912	0.00
Ag	107	1	No Gas	610	2.46
Cd	111	1	No Gas	7	1299.04
Sr	88	1	No Gas	2827	0.30
Mo	95	1	No Gas	30	192.45
Sn	118	1	No Gas	1403	0.41
Sb	121	1	No Gas	550	3.03
Ba	137	1	No Gas	460	2.06
Tl	205	1	No Gas	57	17.98
Tl	203	1	No Gas	30	192.45
Pb	208	1	No Gas	1457	1.13
U	238	1	No Gas	30	111.11
Ca	43	2	He	33	51.96
Sb	121	2	He	260	4.44
Ti	47	2	He	3	5196.15
Cu	63	1	No Gas	2387	0.31

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD

Calibration Blank Report

Li	6	1	No Gas	973853	1.03
Ge	72	2	He	657482	0.36
Ge	72	1	No Gas	2680900	0.64
In	115	1	No Gas	2941542	1.84

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Bi	209	1	No Gas	2457984	0.10

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	016CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T12:30:03-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	7482	0.02
V	51	2	He	15134	0.00
Cr	52	2	He	16777	0.00
Fe	56	2	He	1563729	0.00
Se	78	2	He	316	3.48
As	75	2	He	2539	0.18
Ca	44	2	He	7802	0.04
Na	23	2	He	326572	0.00
Mg	24	2	He	118457	0.00
K	39	2	He	186071	0.00
Mn	55	2	He	10854	0.01
Co	59	2	He	26042	0.00
Ni	60	2	He	7215	0.04
Cu	63	2	He	20182	0.01
Zn	66	2	He	3677	0.12
Al	27	2	He	1683	0.37
B	11	1	No Gas	28773	0.00
Al	27	1	No Gas	96555	0.00
Si	28	1	No Gas	520595	0.00
Ag	107	1	No Gas	41740	0.00
Cd	111	1	No Gas	8173	0.02
Sr	88	1	No Gas	75724	0.00
Mo	95	1	No Gas	15282	0.01
Sn	118	1	No Gas	24613	0.01
Sb	121	1	No Gas	34155	0.01
Ba	137	1	No Gas	11882	0.02
Tl	205	1	No Gas	64386	0.00
Tl	203	1	No Gas	27434	0.00
Pb	208	1	No Gas	91095	0.00
U	238	1	No Gas	90171	0.00
Ca	43	2	He	393	3.68
Sb	121	2	He	16027	0.01
Cu	63	1	No Gas	34902	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	961134	0.41	973853	98.69	70	120	
Ge	72	2	He	662976	0.23	657482	100.84	70	120	
Ge	72	1	No Gas	2639899	0.85	2680900	98.47	70	120	

Calibration Standard Report

In	115	1	No Gas	2934786	0.68	2941542	99.77	70	120	
Bi	209	1	No Gas	2502409	1.00	2457984	101.81	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	017CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T12:32:10-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	19126	0.00
V	51	2	He	35657	0.00
Cr	52	2	He	41119	0.00
Fe	56	2	He	3837772	0.00
Se	78	2	He	613	0.57
As	75	2	He	6160	0.01
Ca	44	2	He	17905	0.02
Na	23	2	He	654026	0.00
Mg	24	2	He	301904	0.00
K	39	2	He	382438	0.00
Mn	55	2	He	25678	0.00
Co	59	2	He	65638	0.00
Ni	60	2	He	17979	0.01
Cu	63	2	He	49072	0.00
Zn	66	2	He	8873	0.02
Al	27	2	He	2414	0.23
B	11	1	No Gas	61409	0.00
Al	27	1	No Gas	141346	0.00
Si	28	1	No Gas	671891	0.00
Ag	107	1	No Gas	103752	0.00
Cd	111	1	No Gas	21070	0.00
Sr	88	1	No Gas	188645	0.00
Mo	95	1	No Gas	38904	0.00
Sn	118	1	No Gas	59618	0.00
Sb	121	1	No Gas	84575	0.00
Ba	137	1	No Gas	28325	0.01
Tl	205	1	No Gas	164237	0.00
Tl	203	1	No Gas	69359	0.00
Pb	208	1	No Gas	229079	0.00
U	238	1	No Gas	230704	0.00
Ca	43	2	He	1117	1.07
Sb	121	2	He	40834	0.00
Cu	63	1	No Gas	87108	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	964844	0.38	973853	99.07	70	120	
Ge	72	2	He	661148	0.36	657482	100.56	70	120	
Ge	72	1	No Gas	2650532	0.32	2680900	98.87	70	120	

Calibration Standard Report

In	115	1	No Gas	2996985	0.97	2941542	101.88	70	120	
Bi	209	1	No Gas	2493699	1.72	2457984	101.45	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	018CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T12:34:18-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	37904	0.00
V	51	2	He	70032	0.00
Cr	52	2	He	85181	0.00
Fe	56	2	He	7613078	0.00
Se	78	2	He	1079	0.35
As	75	2	He	12301	0.02
Ca	44	2	He	35483	0.00
Na	23	2	He	1327816	0.00
Mg	24	2	He	605421	0.00
K	39	2	He	706446	0.00
Mn	55	2	He	51912	0.01
Co	59	2	He	132456	0.00
Ni	60	2	He	36449	0.00
Cu	63	2	He	99197	0.00
Zn	66	2	He	17204	0.01
Al	27	2	He	3991	0.11
B	11	1	No Gas	117998	0.00
Al	27	1	No Gas	227274	0.00
Si	28	1	No Gas	950303	0.00
Ag	107	1	No Gas	207858	0.00
Cd	111	1	No Gas	41837	0.00
Sr	88	1	No Gas	376917	0.00
Mo	95	1	No Gas	77582	0.00
Sn	118	1	No Gas	118699	0.00
Sb	121	1	No Gas	169940	0.00
Ba	137	1	No Gas	56627	0.00
Tl	205	1	No Gas	333258	0.00
Tl	203	1	No Gas	139644	0.00
Pb	208	1	No Gas	463405	0.00
U	238	1	No Gas	470445	0.00
Ca	43	2	He	2124	0.29
Sb	121	2	He	79939	0.00
Cu	63	1	No Gas	173857	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	962277	1.50	973853	98.81	70	120	
Ge	72	2	He	661637	1.23	657482	100.63	70	120	
Ge	72	1	No Gas	2656780	0.96	2680900	99.10	70	120	

Calibration Standard Report

In	115	1	No Gas	2960324	0.60	2941542	100.64	70	120	
Bi	209	1	No Gas	2515456	0.68	2457984	102.34	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	019CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T12:36:25-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	379718	0.00
V	51	2	He	672652	0.00
Cr	52	2	He	800512	0.00
Fe	56	2	He	72588031	0.00
Se	78	2	He	9245	0.01
As	75	2	He	120996	0.00
Ca	44	2	He	338542	0.00
Na	23	2	He	11455626	0.00
Mg	24	2	He	6343295	0.00
K	39	2	He	6841390	0.00
Mn	55	2	He	496896	0.00
Co	59	2	He	1379090	0.00
Ni	60	2	He	344225	0.00
Cu	63	2	He	937624	0.00
Zn	66	2	He	165625	0.00
Al	27	2	He	28713	0.01
B	11	1	No Gas	1169906	0.00
Al	27	1	No Gas	1842788	0.00
Si	28	1	No Gas	4570351	0.00
Ag	107	1	No Gas	2146399	0.00
Cd	111	1	No Gas	405325	0.00
Sr	88	1	No Gas	3776048	0.00
Mo	95	1	No Gas	756689	0.00
Sn	118	1	No Gas	1240956	0.00
Sb	121	1	No Gas	1753741	0.00
Ba	137	1	No Gas	562551	0.00
Tl	205	1	No Gas	3409237	0.00
Tl	203	1	No Gas	1488071	0.00
Pb	208	1	No Gas	4653265	0.00
U	238	1	No Gas	4831914	0.00
Ca	43	2	He	19905	0.01
Sb	121	2	He	790267	0.00
Cu	63	1	No Gas	1756141	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	963971	1.32	973853	98.99	70	120	
Ge	72	2	He	660575	0.70	657482	100.47	70	120	
Ge	72	1	No Gas	2620173	0.62	2680900	97.73	70	120	

Calibration Standard Report

In	115	1	No Gas	2891564	0.55	2941542	98.30	70	120	
Bi	209	1	No Gas	2443437	1.88	2457984	99.41	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	020CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T12:38:24-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	791278	0.00
V	51	2	He	1484745	0.00
Cr	52	2	He	1629260	0.00
Fe	56	2	He	142964108	0.00
Se	78	2	He	17750	0.01
As	75	2	He	237885	0.00
Ca	44	2	He	667377	0.00
Na	23	2	He	22402012	0.00
Mg	24	2	He	12490203	0.00
K	39	2	He	13423836	0.00
Mn	55	2	He	981274	0.00
Co	59	2	He	2660179	0.00
Ni	60	2	He	669121	0.00
Cu	63	2	He	1914012	0.00
Zn	66	2	He	317136	0.00
Al	27	2	He	56552	0.00
B	11	1	No Gas	2367353	0.00
Al	27	1	No Gas	3532640	0.00
Si	28	1	No Gas	8727301	0.00
Ag	107	1	No Gas	4121936	0.00
Cd	111	1	No Gas	803694	0.00
Sr	88	1	No Gas	7461490	0.00
Mo	95	1	No Gas	1687040	0.00
Sn	118	1	No Gas	2467264	0.00
Sb	121	1	No Gas	3452392	0.00
Ba	137	1	No Gas	1110277	0.00
Tl	205	1	No Gas	6648003	0.00
Tl	203	1	No Gas	2985108	0.00
Pb	208	1	No Gas	9494266	0.00
U	238	1	No Gas	9442764	0.00
Ca	43	2	He	39430	0.00
Sb	121	2	He	1662357	0.00
Cu	63	1	No Gas	3392010	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	973685	0.94	973853	99.98	70	120	
Ge	72	2	He	640903	1.43	657482	97.48	70	120	
Ge	72	1	No Gas	2546195	1.34	2680900	94.98	70	120	

Calibration Standard Report

In	115	1	No Gas	2824022	0.52	2941542	96.00	70	120	
Bi	209	1	No Gas	2332438	1.11	2457984	94.89	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	022_ICV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T12:49:30-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	105.129	3.139	1577744	1.67	100	105.1	90	110	
Be	9	1	No Gas	100.061	1.109	396706	0.72	100	100.1	90	110	
V	51	2	He	101.058	0.581	691137	1.07	100	101.1	90	110	
Cr	52	2	He	96.847	0.297	819363	0.78	100	96.8	90	110	
Fe	56	2	He	9866.559	0.602	73695876	0.33	10000	98.7	90	110	
Se	78	2	He	102.971	1.167	9647	1.38	100	103.0	90	110	
As	75	2	He	104.803	0.108	130317	0.48	100	104.8	90	110	
Ca	44	2	He	9876.287	0.412	344614	0.78	10000	98.8	90	110	
Na	23	2	He	9777.250	0.775	11507437	0.73	10000	97.8	90	110	
Mg	24	2	He	9822.235	0.437	6408373	0.36	10000	98.2	90	110	
K	39	2	He	9868.575	0.912	6949563	0.67	10000	98.7	90	110	
Mn	55	2	He	100.978	0.230	517578	0.44	100	101.0	90	110	
Co	59	2	He	104.443	1.810	1457520	1.88	100	104.4	90	110	
Ni	60	2	He	101.103	0.797	354473	0.25	100	101.1	90	110	
Cu	63	2	He	96.591	0.131	959481	0.71	100	96.6	90	110	
Zn	66	2	He	101.704	0.306	169782	0.88	100	101.7	90	110	
Al	27	2	He	97.503	1.109	29261	1.48	100	97.5	90	110	
B	11	1	No Gas	504.137	0.848	1205902	0.68	500	100.8	90	110	
Al	27	1	No Gas	102.032	2.179	1901305	2.16	100	102.0	90	110	
Si	28	1	No Gas	500.403	0.335	4724376	0.68	500	100.1	90	110	
Ag	107	1	No Gas	103.018	1.260	2195392	0.99	100	103.0	90	110	
Cd	111	1	No Gas	100.231	1.326	413824	1.17	100	100.2	90	110	
Sr	88	1	No Gas	100.236	1.640	3845445	1.37	100	100.2	90	110	
Mo	95	1	No Gas	96.402	1.155	734139	0.85	100	96.4	90	110	
Sn	118	1	No Gas	100.343	0.108	1271423	0.35	100	100.3	90	110	
Sb	121	1	No Gas	100.694	0.678	1800226	0.47	100	100.7	90	110	
Ba	137	1	No Gas	100.564	1.293	574245	1.15	100	100.6	90	110	
Tl	205	1	No Gas	104.252	0.611	3579988	1.12	100	104.3	90	110	
Tl	203	1	No Gas	101.930	0.511	1562929	0.45	100	101.9	90	110	
Pb	208	1	No Gas	96.253	0.552	4679653	1.07	100	96.3	90	110	
U	238	1	No Gas	96.388	1.082	4699083	0.53	100	96.4	90	110	
Ca	43	2	He	10110.672	0.791	20816	1.27	10000	101.1	90	110	
Sb	121	2	He	100.848	0.576	810349	1.11	100	100.8	90	110	
Ti	47	2	He	98.172	1.883	22475	1.34	100	98.2	90	110	
Cu	63	1	No Gas	103.744	1.223	1829761	0.58	100	103.7	90	110	
Se	82	1	No Gas	103.281	1.912	25055	2.38	100	103.3	90	110	

QC ISTD Table

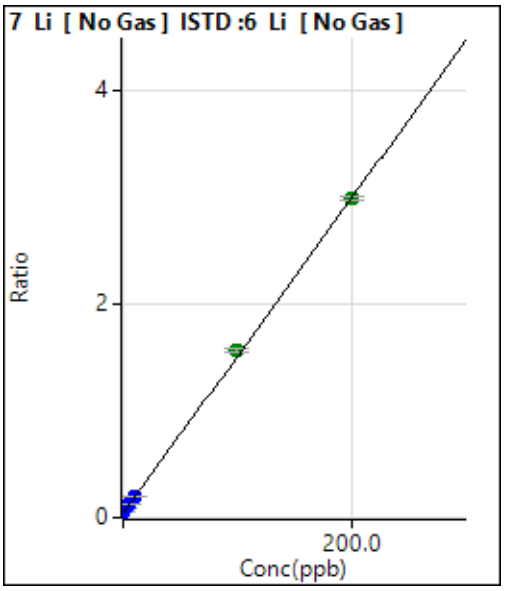
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	981922	1.41	973853	100.83	70	120	
Ge	72	2	He	671537	0.58	657482	102.14	70	120	
Ge	72	1	No Gas	2643616	0.98	2680900	98.61	70	120	
In	115	1	No Gas	2910197	0.30	2941542	98.93	70	120	
Bi	209	1	No Gas	2419950	0.55	2457984	98.45	70	120	

Calibration for 022_ICV.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\083022A.b\
Analysis File: 083022A.batch.bin
DA Date-Time: 08/30/2022 22:08:01
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	015CALB.d	CAL BLK	08/30/2022 12:27:53
2	016CALS.d	2/10/200	08/30/2022 12:30:03
3	017CALS.d	5/25/500	08/30/2022 12:32:10
4	018CALS.d	10/50/100	08/30/2022 12:34:18
5	019CALS.d	100/500/10K	08/30/2022 12:36:25
6	020CALS.d	200/1000/20K	08/30/2022 12:38:24

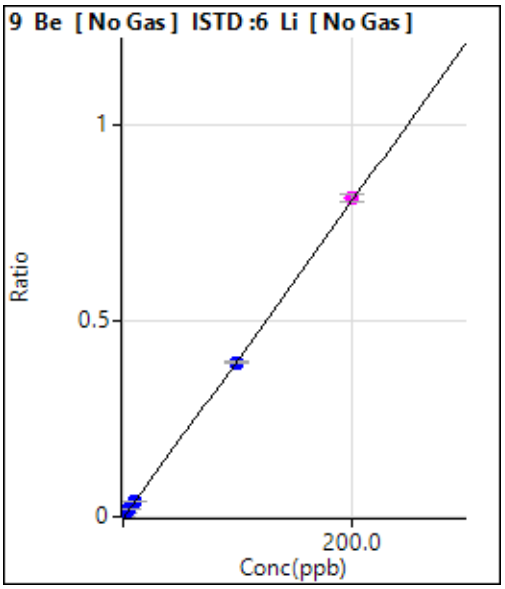
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	53561.52	0.0550	P	1.8	
2	☐	2.000	1.975	80886.00	0.0842	P	1.1	-1.3
3	☐	5.000	4.778	121134.68	0.1255	P	0.2	-4.4
4	☐	10.000	9.696	190666.10	0.1982	P	1.4	-3.0
5	☐	100.000	102.373	1509914.20	1.5665	A	1.4	2.4
6	☐	200.000	198.834	2911860.16	2.9908	A	1.3	-0.6

y = 0.0148 * x + 0.0550
R = 0.9999
DL = 0.2044 ppb
BEC = 3.725 ppb

Weight: <None>
Min Conc: <None>

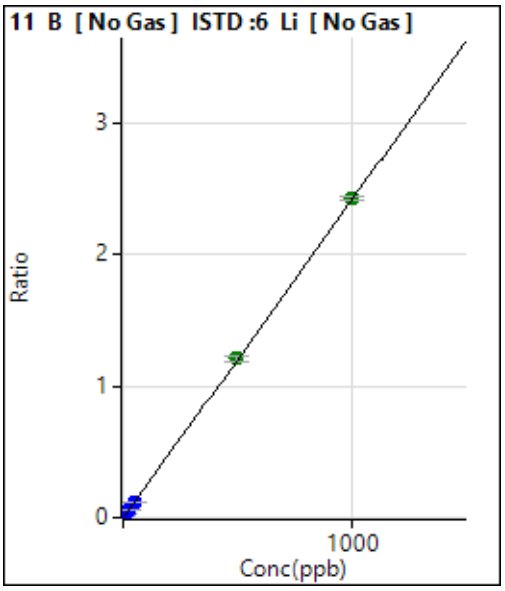


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	23.33	0.0000	P	64.6	
2	☐	2.000	1.922	7482.04	0.0078	P	1.7	-3.9
3	☐	5.000	4.904	19126.40	0.0198	P	1.0	-1.9
4	☐	10.000	9.751	37904.35	0.0394	P	1.9	-2.5
5	☐	100.000	97.562	379718.26	0.3940	P	1.3	-2.4
6	☐	200.000	201.235	791277.90	0.8126	M	2.1	0.6

y = 0.0040 * x + 2.3855E-005
R = 0.9999
DL = 0.01144 ppb
BEC = 0.005908 ppb

Weight: <None>
Min Conc: <None>

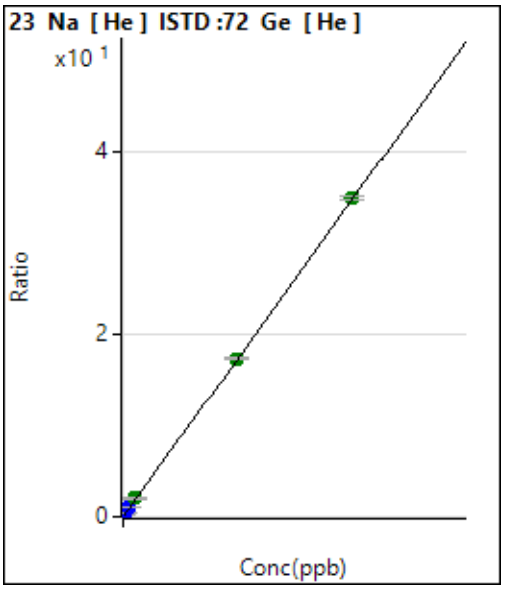
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7291.95	0.0075	P	4.3	
2	☐	10.000	9.270	28772.81	0.0299	P	0.4	-7.3
3	☐	25.000	23.193	61408.60	0.0636	P	1.4	-7.2
4	☐	50.000	47.550	117998.14	0.1226	P	0.5	-4.9
5	☐	500.000	498.263	1169905.94	1.2140	A	3.4	-0.3
6	☐	1000.000	1001.043	2367353.45	2.4314	A	0.7	0.1

y = 0.0024 * x + 0.0075
R = 1.0000
DL = 0.3985 ppb
BEC = 3.093 ppb

Weight: <None>
Min Conc: <None>

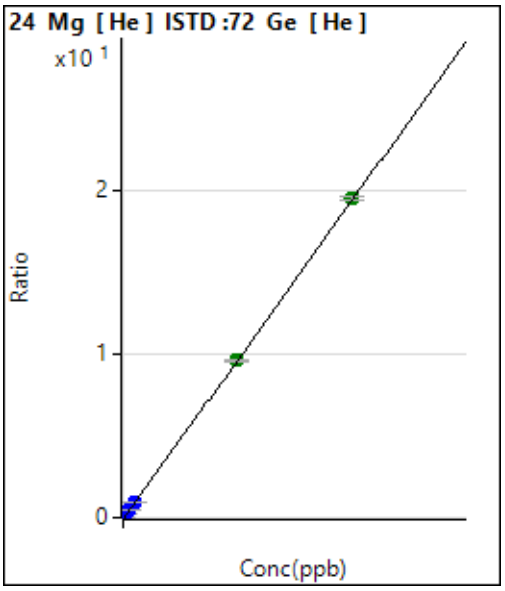


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	113949.08	0.1733	P	0.8	
2	☐	200.000	184.028	326572.06	0.4926	P	0.5	-8.0
3	☐	500.000	470.297	654026.40	0.9892	P	0.8	-5.9
4	☐	1000.000	1057.022	1327815.97	2.0072	A	2.6	5.7
5	☐	10000.00	9895.843	11455626.50	17.3420	A	0.7	-1.0
6	☐	20000.00	20050.13	22402012.17	34.9590	A	1.6	0.3

y = 0.0017 * x + 0.1733
R = 1.0000
DL = 2.318 ppb
BEC = 99.89 ppb

Weight: <None>
Min Conc: <None>

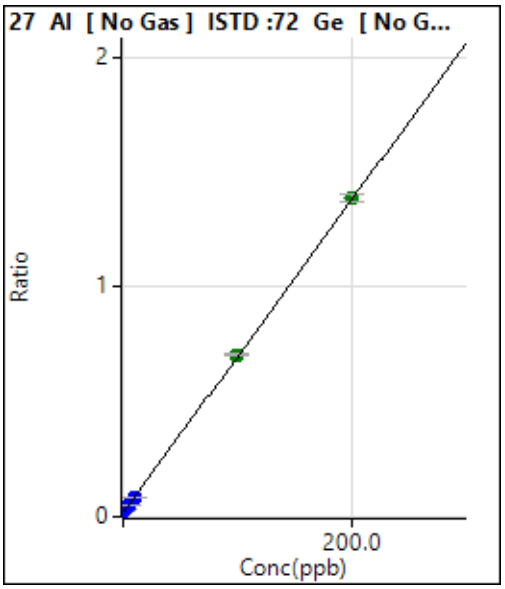
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	600.02	0.0009	P	8.5	
2	☐	200.000	182.986	118456.64	0.1787	P	2.0	-8.5
3	☐	500.000	469.109	301904.35	0.4566	P	0.4	-6.2
4	☐	1000.000	941.005	605420.87	0.9151	P	0.8	-5.9
5	☐	10000.00	9884.032	6343294.70	9.6030	A	0.9	-1.2
6	☐	20000.00	20061.87	12490203.14	19.4905	A	1.2	0.3

y = 9.7148E-004 * x + 9.1242E-004
R = 1.0000
DL = 0.2391 ppb
BEC = 0.9392 ppb

Weight: <None>
Min Conc: <None>

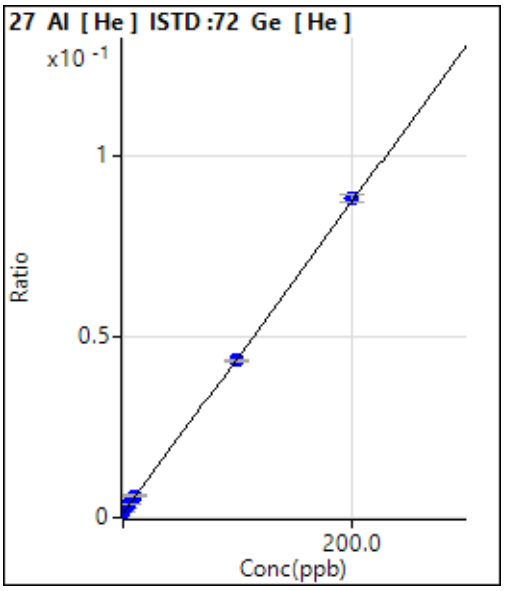


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	65705.01	0.0245	P	3.0	
2	☐	2.000	1.772	96554.98	0.0366	P	1.0	-11.4
3	☐	5.000	4.232	141345.75	0.0533	P	0.7	-15.4
4	☐	10.000	8.965	227274.27	0.0856	P	1.5	-10.4
5	☐	100.000	99.698	1842788.15	0.7033	A	0.9	-0.3
6	☐	200.000	200.224	3532640.26	1.3878	A	2.9	0.1

y = 0.0068 * x + 0.0245
R = 1.0000
DL = 0.3203 ppb
BEC = 3.6 ppb

Weight: <None>
Min Conc: <None>

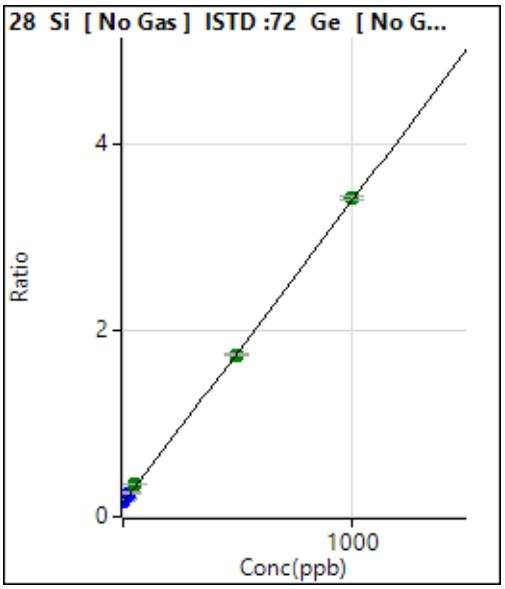
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1080.06	0.0016	P	11.4	
2	☐	2.000	2.085	1683.47	0.0025	P	6.5	4.2
3	☐	5.000	4.670	2413.59	0.0037	P	6.0	-6.6
4	☐	10.000	10.211	3990.65	0.0060	P	5.5	2.1
5	☐	100.000	97.254	28713.27	0.0435	P	1.1	-2.7
6	☐	200.000	201.370	56551.74	0.0882	P	2.0	0.7

y = 4.3003E-004 * x + 0.0016
R = 0.9999
DL = 1.309 ppb
BEC = 3.821 ppb

Weight: <None>
Min Conc: <None>

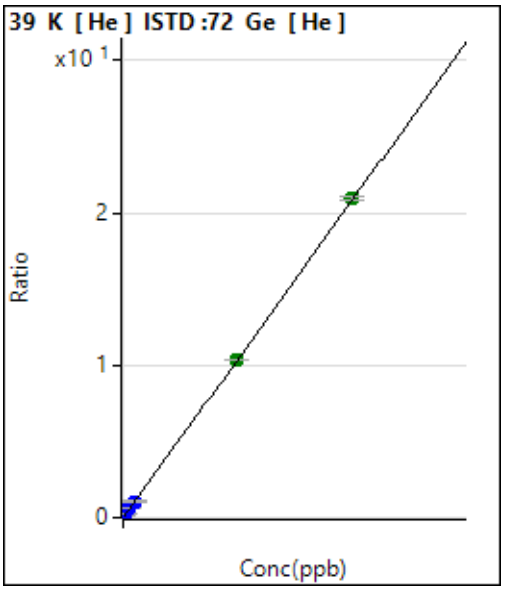


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	435912.31	0.1626	P	1.6	
2	☐	10.000	10.661	520595.15	0.1972	P	1.7	6.6
3	☐	25.000	28.003	671890.73	0.2535	P	5.0	12.0
4	☐	50.000	60.083	950302.98	0.3577	A	1.3	20.2
5	☐	500.000	487.226	4570351.08	1.7443	A	0.8	-2.6
6	☐	1000.000	1005.801	8727300.91	3.4279	A	1.8	0.6

y = 0.0032 * x + 0.1626
R = 0.9998
DL = 2.351 ppb
BEC = 50.09 ppb

Weight: <None>
Min Conc: <None>

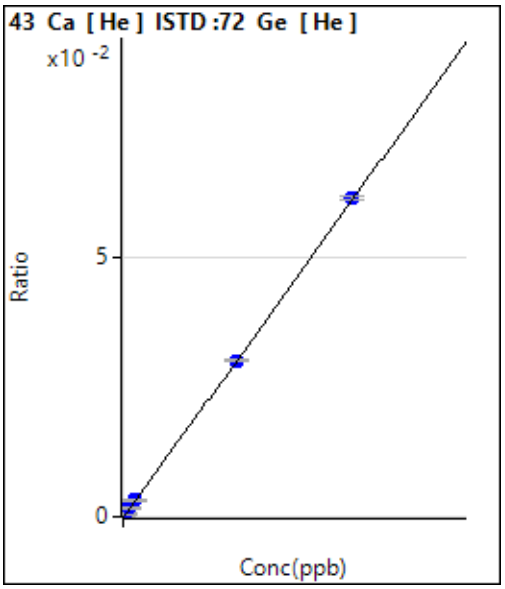
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	60894.31	0.0926	P	0.6	
2	☐	200.000	180.937	186070.70	0.2807	P	1.0	-9.5
3	☐	500.000	467.465	382437.80	0.5785	P	0.9	-6.5
4	☐	1000.000	938.295	706445.56	1.0678	P	1.0	-6.2
5	☐	10000.00	9875.822	6841390.11	10.3565	A	0.4	-1.2
6	☐	20000.00	20066.17	13423836.05	20.9473	A	1.3	0.3

y = 0.0010 * x + 0.0926
R = 1.0000
DL = 1.553 ppb
BEC = 89.11 ppb

Weight: <None>
Min Conc: <None>

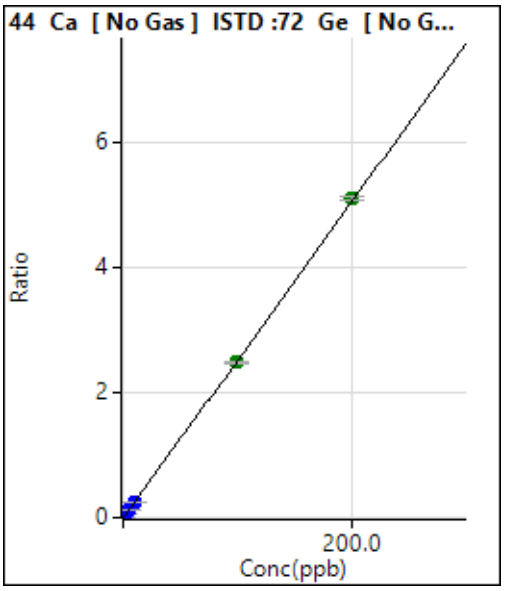


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	33.33	0.0001	P	17.0	
2	☐	200.000	177.243	393.34	0.0006	P	14.3	-11.4
3	☐	500.000	535.441	1116.73	0.0017	P	12.2	7.1
4	☐	1000.000	1032.464	2123.54	0.0032	P	7.0	3.2
5	☐	10000.00	9828.587	19904.65	0.0301	P	1.9	-1.7
6	☐	20000.00	20083.42	39430.08	0.0615	P	0.7	0.4

y = 3.0608E-006 * x + 5.0683E-005
R = 0.9999
DL = 8.455 ppb
BEC = 16.56 ppb

Weight: <None>
Min Conc: <None>

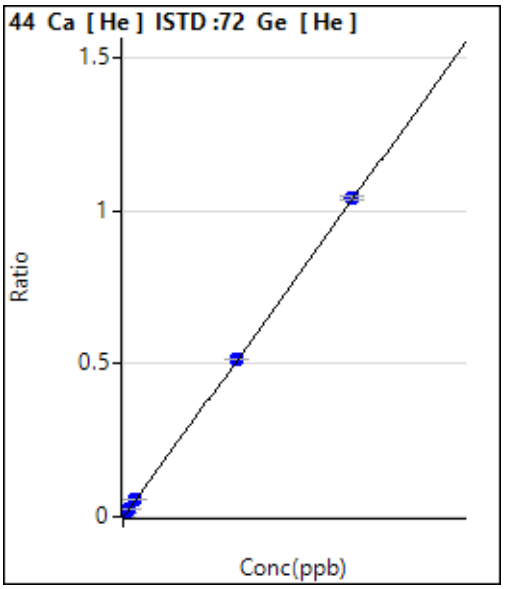
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	40362.69	0.0151	P	2.0	
2	☐	2.000	1.860	163829.87	0.0621	P	0.4	-7.0
3	☐	5.000	4.605	348335.76	0.1314	P	1.3	-7.9
4	☐	10.000	9.325	665941.87	0.2507	P	1.5	-6.8
5	☐	100.000	97.532	6496634.70	2.4795	A	0.8	-2.5
6	☐	200.000	201.279	12987542.72	5.1011	A	1.3	0.6

y = 0.0253 * x + 0.0151
R = 0.9999
DL = 0.03524 ppb
BEC = 0.5959 ppb

Weight: <None>
Min Conc: <None>

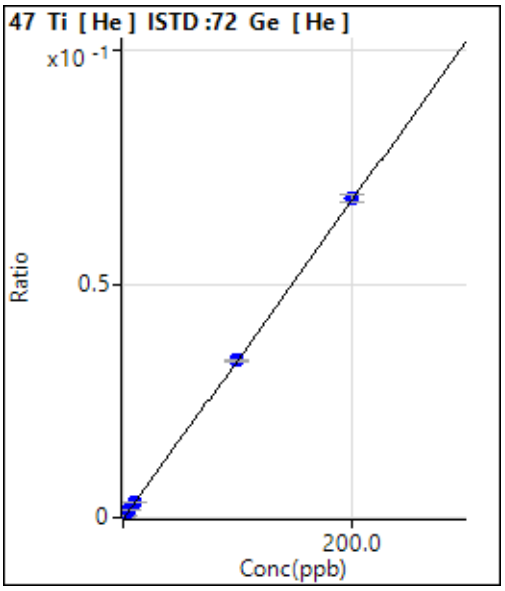


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	866.71	0.0013	P	8.8	
2	☐	200.000	201.636	7802.35	0.0118	P	3.4	0.8
3	☐	500.000	497.077	17905.26	0.0271	P	3.5	-0.6
4	☐	1000.000	1009.379	35482.79	0.0536	P	0.5	0.9
5	☐	10000.00	9863.488	338542.38	0.5125	P	0.5	-1.4
6	☐	20000.00	20067.84	667377.31	1.0414	P	0.7	0.3

y = 5.1826E-005 * x + 0.0013
R = 1.0000
DL = 6.732 ppb
BEC = 25.44 ppb

Weight: <None>
Min Conc: <None>

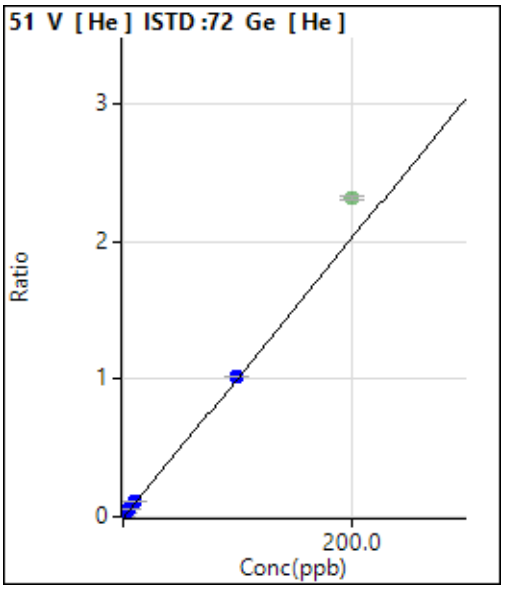
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3.33	0.0000	P	173.2	
2	☐	2.000	1.726	393.34	0.0006	P	5.5	-13.7
3	☐	5.000	5.163	1166.74	0.0018	P	8.9	3.3
4	☐	10.000	9.787	2210.21	0.0033	P	3.0	-2.1
5	☐	100.000	98.864	22264.91	0.0337	P	1.4	-1.1
6	☐	200.000	200.577	43820.08	0.0684	P	2.1	0.3

y = 3.4089E-004 * x + 5.0669E-006
R = 1.0000
DL = 0.07723 ppb
BEC = 0.01486 ppb

Weight: <None>
Min Conc: <None>

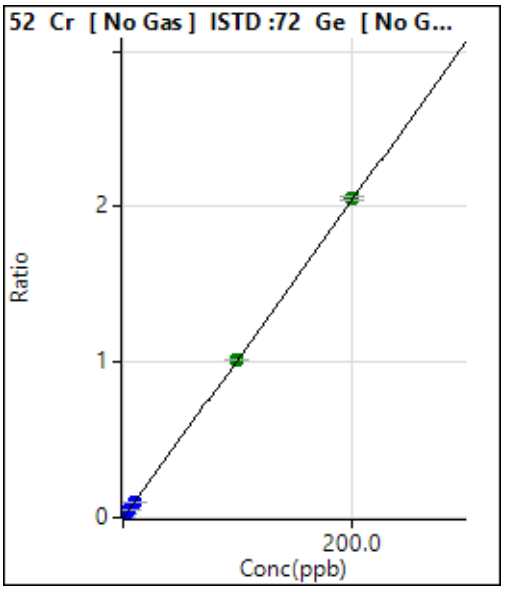


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2029.05	0.0031	P	3.2	
2	☐	2.000	1.944	15133.94	0.0228	P	0.4	-2.8
3	☐	5.000	5.008	35657.36	0.0539	P	0.3	0.2
4	☐	10.000	10.121	70032.30	0.1059	P	0.6	1.2
5	☐	100.000	99.989	672651.52	1.0183	P	0.5	0.0
6	☑	200.000		1484744.73	2.3167	A	0.7	

y = 0.0102 * x + 0.0031
R = 1.0000
DL = 0.02942 ppb
BEC = 0.304 ppb

Weight: <None>
Min Conc: <None>

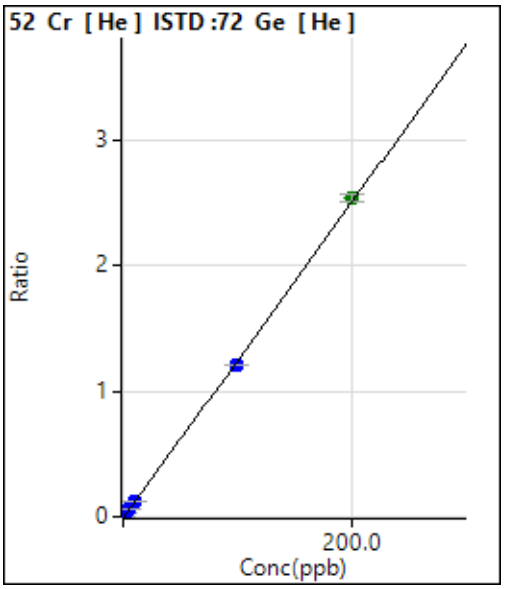
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16219.88	0.0060	P	1.4	
2	☐	2.000	1.909	67472.63	0.0256	P	0.3	-4.6
3	☐	5.000	4.782	145577.58	0.0549	P	1.3	-4.4
4	☐	10.000	9.607	276887.80	0.1042	P	1.7	-3.9
5	☐	100.000	99.053	2668238.09	1.0183	A	0.1	-0.9
6	☐	200.000	200.499	5232630.45	2.0551	A	1.5	0.2

y = 0.0102 * x + 0.0060
R = 1.0000
DL = 0.02465 ppb
BEC = 0.592 ppb

Weight: <None>
Min Conc: <None>

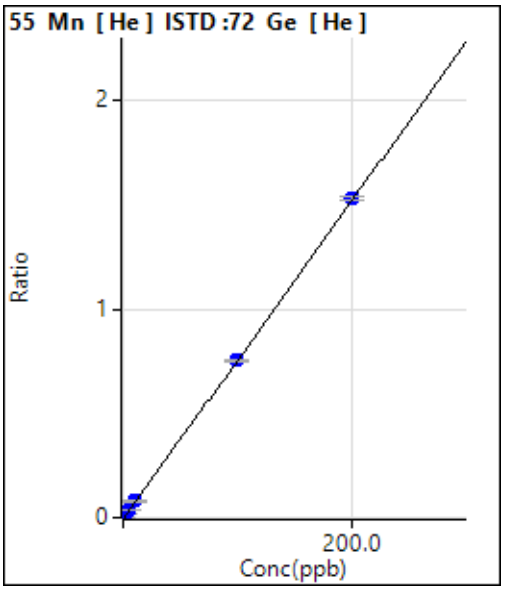


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	670.03	0.0010	P	21.2	
2	☐	2.000	1.929	16777.17	0.0253	P	1.0	-3.5
3	☐	5.000	4.860	41118.73	0.0622	P	1.5	-2.8
4	☐	10.000	10.147	85180.75	0.1288	P	1.2	1.5
5	☐	100.000	96.189	800511.55	1.2118	P	0.4	-3.8
6	☐	200.000	201.902	1629259.56	2.5426	A	1.9	1.0

y = 0.0126 * x + 0.0010
R = 0.9997
DL = 0.05144 ppb
BEC = 0.08099 ppb

Weight: <None>
Min Conc: <None>

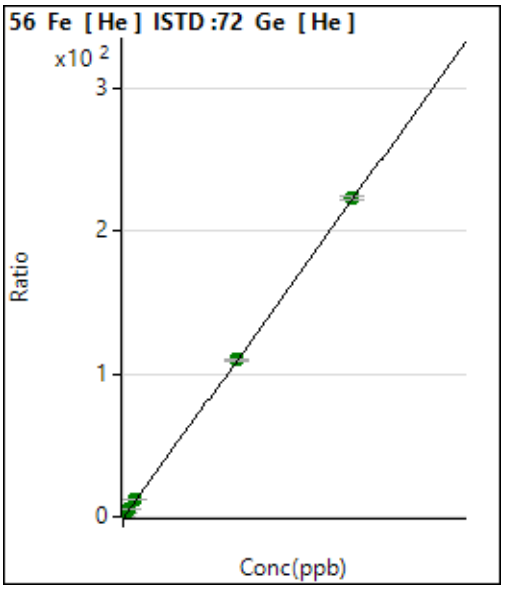
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	523.35	0.0008	P	6.2	
2	☐	2.000	2.043	10854.48	0.0164	P	1.6	2.1
3	☐	5.000	4.989	25677.81	0.0388	P	0.5	-0.2
4	☐	10.000	10.184	51911.96	0.0785	P	1.6	1.8
5	☐	100.000	98.551	496895.85	0.7522	P	0.8	-1.4
6	☐	200.000	200.715	981274.15	1.5312	P	1.1	0.4

y = 0.0076 * x + 7.9600E-004
R = 1.0000
DL = 0.01926 ppb
BEC = 0.1044 ppb

Weight: <None>
Min Conc: <None>

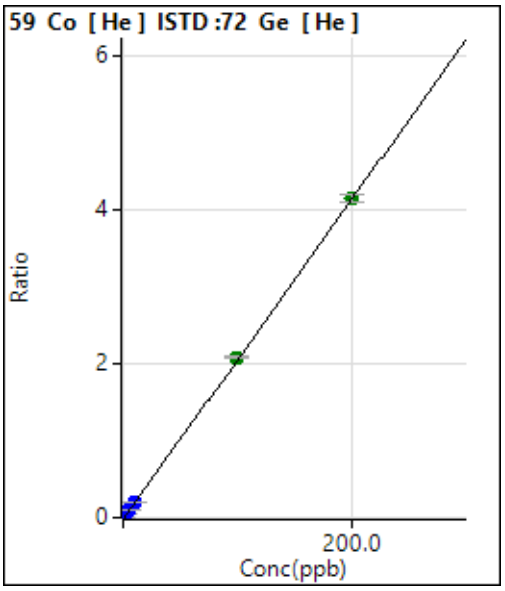


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10230.64	0.0156	P	4.6	
2	☐	200.000	210.687	1563729.14	2.3587	A	1.1	5.3
3	☐	500.000	520.536	3837772.24	5.8046	A	1.1	4.1
4	☐	1000.000	1033.233	7613077.60	11.5064	A	0.6	3.3
5	☐	10000.00	9879.855	72588030.58	109.892	A	1.2	-1.2
6	☐	20000.00	20057.79	142964107.8	223.083	A	0.9	0.3

y = 0.0111 * x + 0.0156
R = 1.0000
DL = 0.1935 ppb
BEC = 1.399 ppb

Weight: <None>
Min Conc: <None>

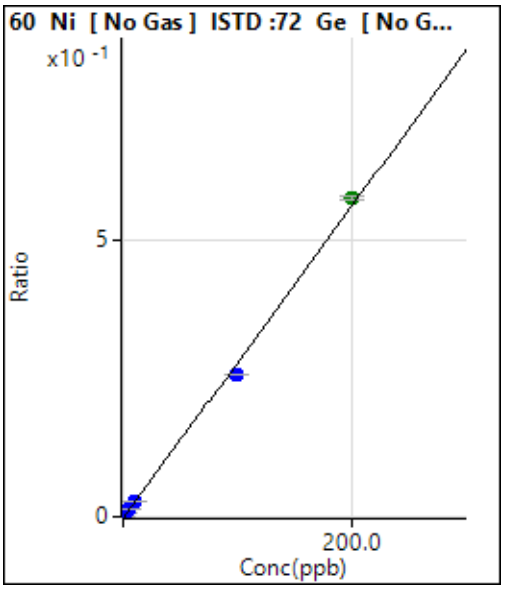
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	30.00	0.0000	P	33.7	
2	☐	2.000	1.888	26041.80	0.0393	P	0.6	-5.6
3	☐	5.000	4.775	65637.85	0.0993	P	1.7	-4.5
4	☐	10.000	9.631	132455.98	0.2002	P	0.3	-3.7
5	☐	100.000	100.465	1379090.45	2.0878	A	0.6	0.5
6	☐	200.000	199.793	2660178.66	4.1518	A	3.0	-0.1

y = 0.0208 * x + 4.5665E-005
R = 1.0000
DL = 0.00222 ppb
BEC = 0.002197 ppb

Weight: <None>
Min Conc: <None>

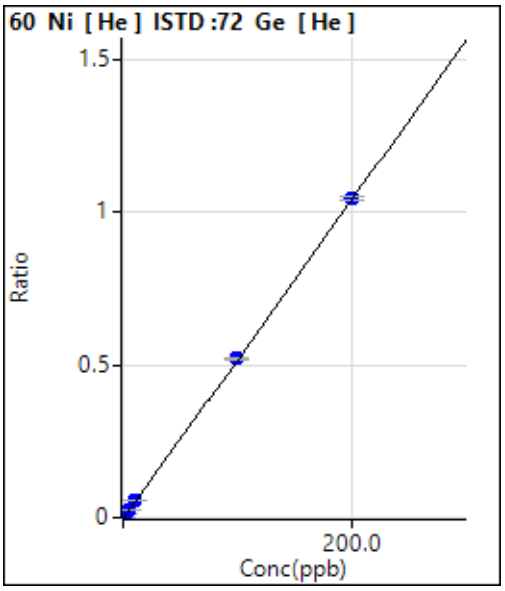


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	556.69	0.0002	P	21.4	
2	☐	2.000	1.836	14234.32	0.0054	P	1.8	-8.2
3	☐	5.000	4.722	35890.83	0.0135	P	1.3	-5.6
4	☐	10.000	9.487	71725.08	0.0270	P	1.8	-5.1
5	☐	100.000	91.407	676830.25	0.2583	P	0.5	-8.6
6	☐	200.000	204.331	1469508.52	0.5772	A	1.2	2.2

y = 0.0028 * x + 2.0762E-004
R = 0.9987
DL = 0.04719 ppb
BEC = 0.07353 ppb

Weight: <None>
Min Conc: <None>

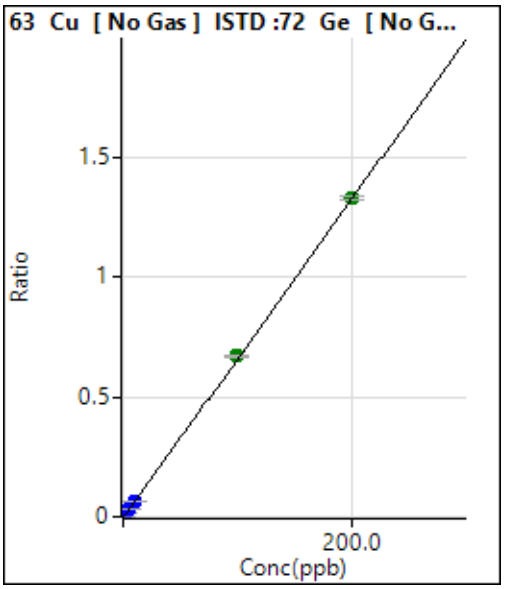
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	276.68	0.0004	P	13.4	
2	☐	2.000	2.005	7215.36	0.0109	P	2.5	0.3
3	☐	5.000	5.132	17978.73	0.0272	P	1.7	2.6
4	☐	10.000	10.480	36449.14	0.0551	P	0.9	4.8
5	☐	100.000	99.812	344224.76	0.5211	P	1.6	-0.2
6	☐	200.000	200.067	669120.80	1.0442	P	1.3	0.0

y = 0.0052 * x + 4.2072E-004
R = 1.0000
DL = 0.03246 ppb
BEC = 0.08064 ppb

Weight: <None>
Min Conc: <None>

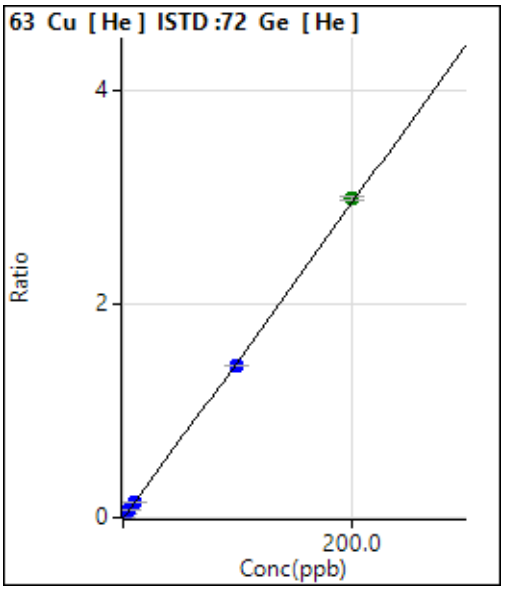


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2386.93	0.0009	P	8.0	
2	☑	2.000		34901.80	0.0132	P	0.1	
3	☐	5.000	4.798	87107.98	0.0329	P	1.1	-4.0
4	☐	10.000	9.687	173857.29	0.0654	P	1.2	-3.1
5	☐	100.000	100.447	1756140.65	0.6702	A	0.4	0.4
6	☐	200.000	199.797	3392010.36	1.3323	A	1.0	-0.1

y = 0.0067 * x + 8.9062E-004
R = 1.0000
DL = 0.03225 ppb
BEC = 0.1337 ppb

Weight: <None>
Min Conc: <None>

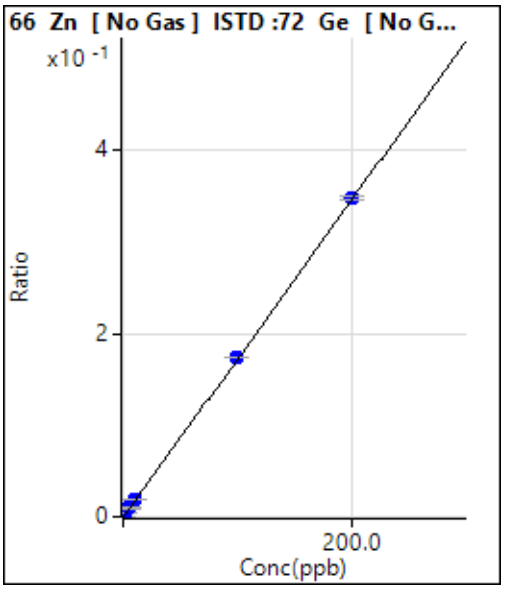
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1343.43	0.0020	P	9.7	
2	☑	2.000		20181.98	0.0304	P	0.9	
3	☐	5.000	4.887	49072.12	0.0742	P	1.2	-2.3
4	☐	10.000	10.012	99197.14	0.1499	P	0.9	0.1
5	☐	100.000	95.959	937624.31	1.4195	P	0.8	-4.0
6	☐	200.000	202.023	1914011.95	2.9861	A	1.5	1.0

y = 0.0148 * x + 0.0020
R = 0.9997
DL = 0.04043 ppb
BEC = 0.1383 ppb

Weight: <None>
Min Conc: <None>

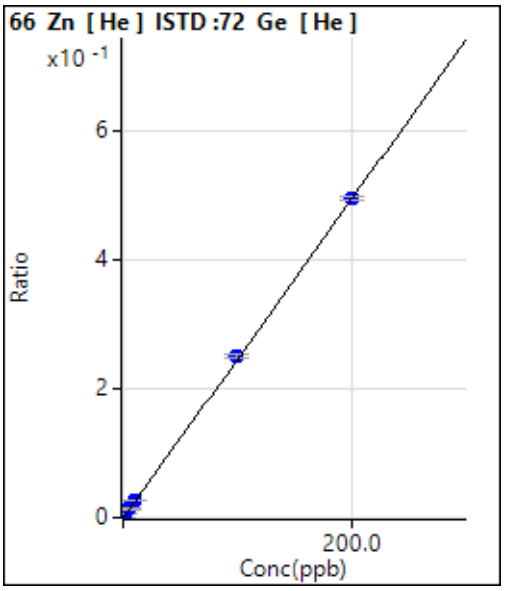


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2380.25	0.0009	P	2.9	
2	☐	2.000	1.820	10667.74	0.0040	P	3.3	-9.0
3	☐	5.000	5.009	25350.67	0.0096	P	3.3	0.2
4	☐	10.000	10.043	48583.76	0.0183	P	0.8	0.4
5	☐	100.000	99.483	453883.59	0.1732	P	0.3	-0.5
6	☐	200.000	200.258	885518.92	0.3478	P	0.9	0.1

y = 0.0017 * x + 8.8780E-004
R = 1.0000
DL = 0.04437 ppb
BEC = 0.5125 ppb

Weight: <None>
Min Conc: <None>

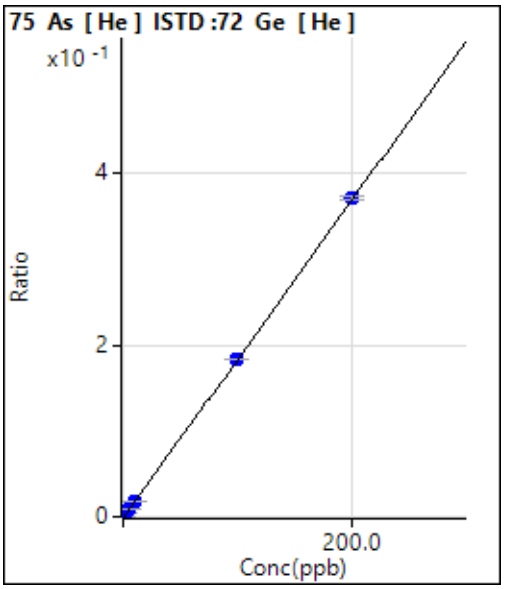
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	860.04	0.0013	P	9.2	
2	☐	2.000	1.714	3677.23	0.0055	P	4.5	-14.3
3	☐	5.000	4.898	8873.08	0.0134	P	1.9	-2.0
4	☐	10.000	9.986	17204.47	0.0260	P	1.6	-0.1
5	☐	100.000	100.860	165625.06	0.2507	P	1.7	0.9
6	☐	200.000	199.576	317135.60	0.4949	P	0.8	-0.2

y = 0.0025 * x + 0.0013
R = 1.0000
DL = 0.1454 ppb
BEC = 0.529 ppb

Weight: <None>
Min Conc: <None>

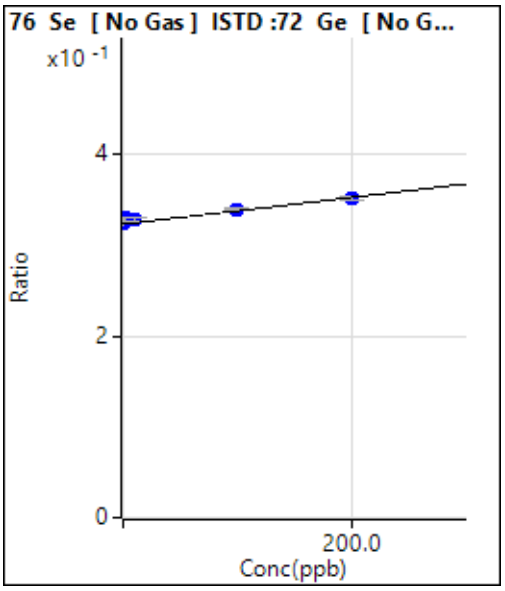


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	106.67	0.0002	P	37.2	
2	☐	2.000	1.982	2539.14	0.0038	P	4.8	-0.9
3	☐	5.000	4.949	6160.32	0.0093	P	0.8	-1.0
4	☐	10.000	9.960	12301.22	0.0186	P	1.5	-0.4
5	☐	100.000	98.916	120996.28	0.1832	P	0.5	-1.1
6	☐	200.000	200.545	237884.88	0.3712	P	0.8	0.3

y = 0.0019 * x + 1.6238E-004
R = 1.0000
DL = 0.09797 ppb
BEC = 0.08777 ppb

Weight: <None>
Min Conc: <None>

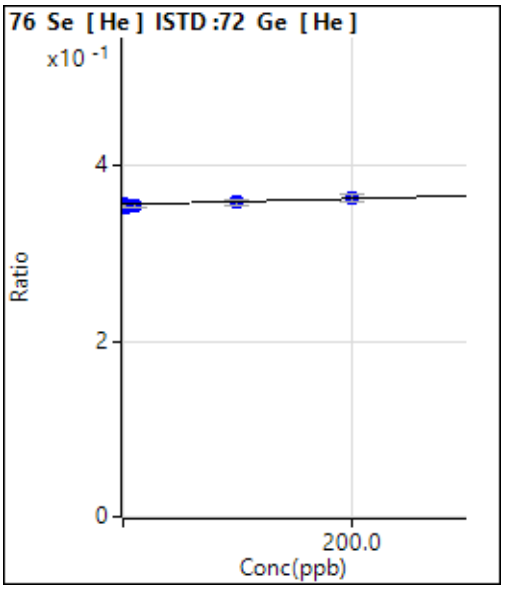
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	867100.43	0.3234	P	0.5	
2	☐	2.000	47.051	872261.44	0.3304	P	1.4	2252.5
3	☐	5.000	37.649	872124.41	0.3290	P	0.5	653.0
4	☐	10.000	38.079	874291.47	0.3291	P	1.2	280.8
5	☐	100.000	110.723	890657.64	0.3399	P	0.3	10.7
6	☐	200.000	191.968	896215.40	0.3520	P	1.3	-4.0

y = 1.4893E-004 * x + 0.3234
R = 0.9764
DL = 35.83 ppb
BEC = 2172 ppb

Weight: <None>
Min Conc: <None>

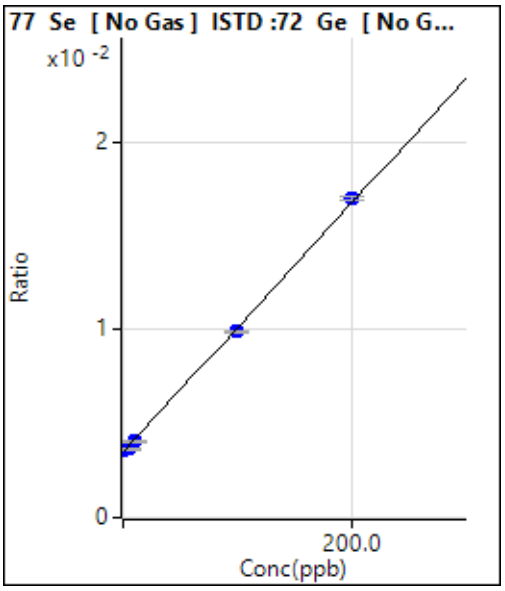


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	234088.77	0.3560	P	0.6	
2	☐	2.000	-87.739	234090.09	0.3531	P	1.2	-4487.
3	☐	5.000	-46.731	234357.57	0.3545	P	0.4	-1034.
4	☐	10.000	-31.416	234853.93	0.3550	P	0.8	-414.2
5	☐	100.000	64.213	236598.69	0.3582	P	1.4	-35.8
6	☐	200.000	222.155	232908.09	0.3635	P	2.1	11.1

y = 3.3483E-005 * x + 0.3560
R = 0.9626
DL = 182.9 ppb
BEC = 1.063E+04 ppb

Weight: <None>
Min Conc: <None>

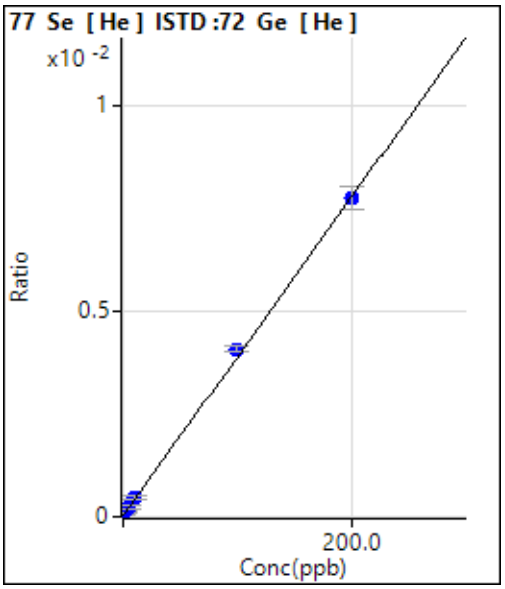
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	9657.00	0.0036	P	2.2	
2	☐	2.000	1.935	9847.07	0.0037	P	1.7	-3.3
3	☐	5.000	0.952	9713.67	0.0037	P	3.5	-81.0
4	☐	10.000	7.132	10824.51	0.0041	P	1.4	-28.7
5	☐	100.000	95.388	26002.05	0.0099	P	1.0	-4.6
6	☐	200.000	202.551	43350.12	0.0170	P	0.7	1.3

y = 6.6271E-005 * x + 0.0036
R = 0.9995
DL = 3.587 ppb
BEC = 54.35 ppb

Weight: <None>
Min Conc: <None>

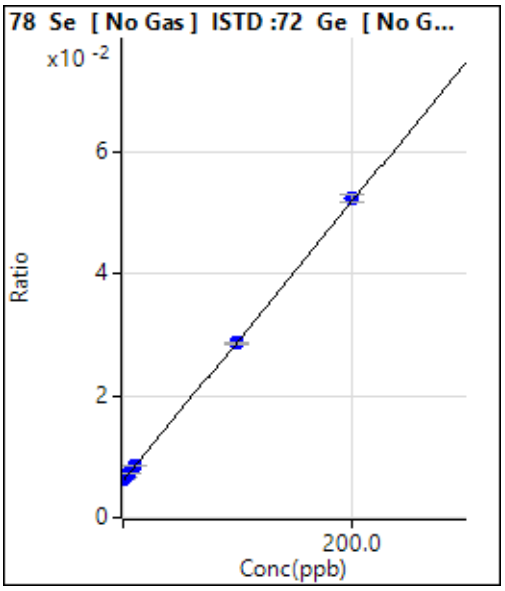


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	40.00	0.0001	P	90.1	
2	☐	2.000	1.539	80.00	0.0001	P	44.9	-23.0
3	☐	5.000	4.544	156.67	0.0002	P	29.0	-9.1
4	☐	10.000	10.771	316.68	0.0005	P	18.9	7.7
5	☐	100.000	103.476	2690.31	0.0041	P	3.7	3.5
6	☐	200.000	198.239	4960.99	0.0077	P	6.9	-0.9

y = 3.8765E-005 * x + 6.0915E-005
R = 0.9998
DL = 4.245 ppb
BEC = 1.571 ppb

Weight: <None>
Min Conc: <None>

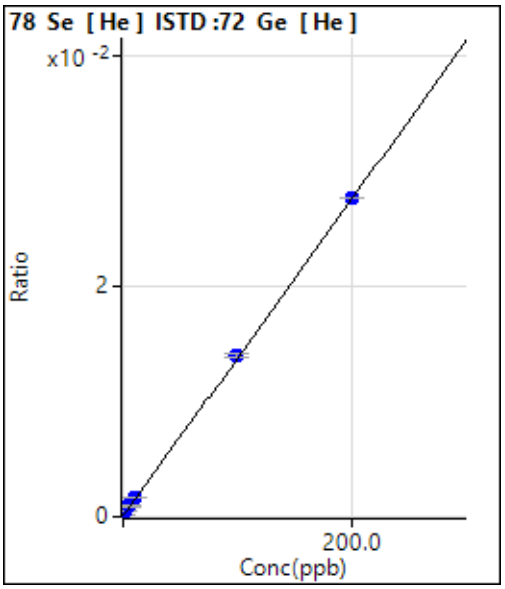
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16994.29	0.0063	P	4.0	
2	☐	2.000	1.419	17591.69	0.0067	P	3.0	-29.1
3	☐	5.000	4.091	19287.34	0.0073	P	1.9	-18.2
4	☐	10.000	9.588	22676.05	0.0085	P	0.3	-4.1
5	☐	100.000	97.245	74944.65	0.0286	P	0.6	-2.8
6	☐	200.000	201.427	133530.89	0.0525	P	2.3	0.7

y = 2.2894E-004 * x + 0.0063
R = 0.9999
DL = 3.364 ppb
BEC = 27.69 ppb

Weight: <None>
Min Conc: <None>

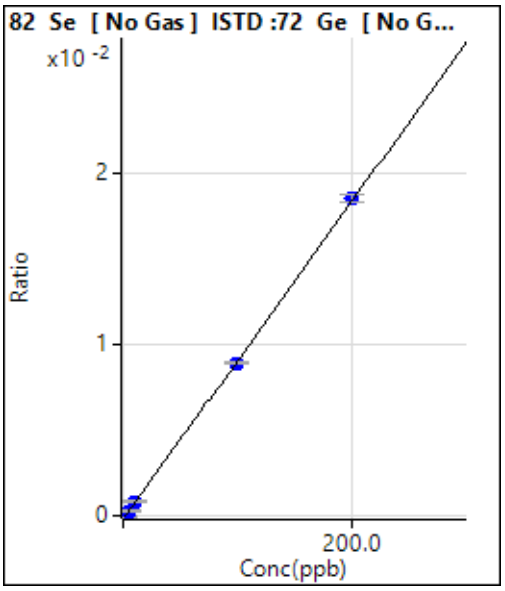


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	127.33	0.0002	P	11.4	
2	☐	2.000	2.055	316.00	0.0005	P	10.8	2.8
3	☐	5.000	5.334	613.35	0.0009	P	3.7	6.7
4	☐	10.000	10.436	1078.71	0.0016	P	2.5	4.4
5	☐	100.000	100.293	9245.19	0.0140	P	1.5	0.3
6	☐	200.000	199.823	17749.67	0.0277	P	0.1	-0.1

y = 1.3763E-004 * x + 1.9372E-004
R = 1.0000
DL = 0.481 ppb
BEC = 1.408 ppb

Weight: <None>
Min Conc: <None>

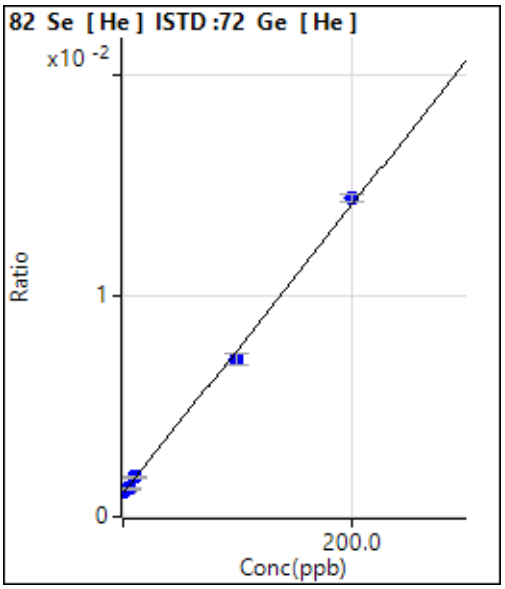
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-233.81	-0.0001	P	-84.3	
2	☐	2.000	0.900	-11.03	0.0000	P	-1614.	-55.0
3	☐	5.000	4.061	764.80	0.0003	P	25.3	-18.8
4	☐	10.000	10.263	2289.81	0.0009	P	22.7	2.6
5	☐	100.000	97.307	23382.05	0.0089	P	0.8	-2.7
6	☐	200.000	201.368	47249.23	0.0186	P	2.3	0.7

y = 9.2607E-005 * x - 8.7505E-005
R = 0.9999
DL = 2.39 ppb
BEC = -0.9449 ppb

Weight: <None>
Min Conc: <None>

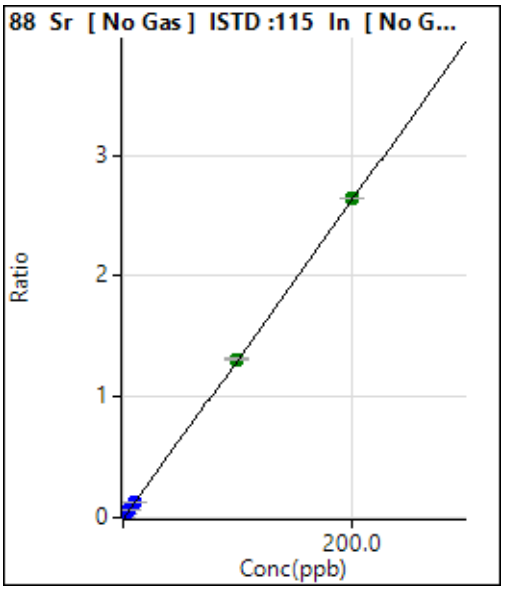


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	746.70	0.0011	P	12.7	
2	☐	2.000	0.862	790.04	0.0012	P	4.2	-56.9
3	☐	5.000	2.383	853.38	0.0013	P	5.2	-52.3
4	☐	10.000	9.939	1180.08	0.0018	P	9.0	-0.6
5	☐	100.000	92.353	4730.91	0.0072	P	7.2	-7.6
6	☐	200.000	203.903	9256.64	0.0144	P	2.2	2.0

y = 6.5277E-005 * x + 0.0011
R = 0.9990
DL = 6.612 ppb
BEC = 17.39 ppb

Weight: <None>
Min Conc: <None>

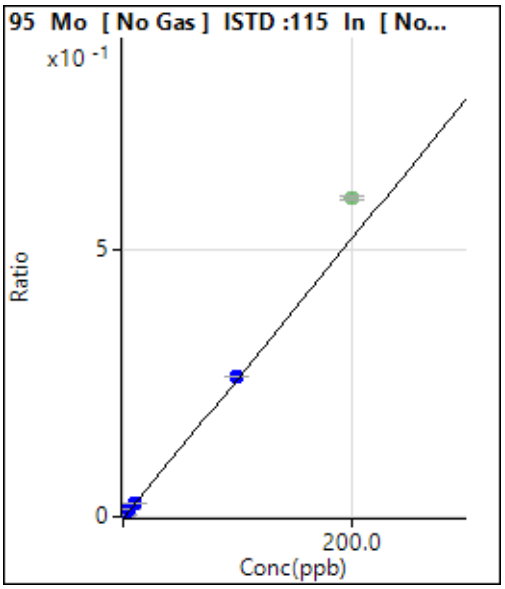
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2827.02	0.0010	P	6.7	
2	☐	2.000	1.886	75724.08	0.0258	P	3.1	-5.7
3	☐	5.000	4.706	188644.75	0.0630	P	1.8	-5.9
4	☐	10.000	9.593	376917.04	0.1273	P	0.8	-4.1
5	☐	100.000	99.062	3776048.28	1.3059	A	1.1	-0.9
6	☐	200.000	200.498	7461490.31	2.6422	A	0.5	0.2

y = 0.0132 * x + 9.6038E-004
R = 1.0000
DL = 0.01466 ppb
BEC = 0.0729 ppb

Weight: <None>
Min Conc: <None>

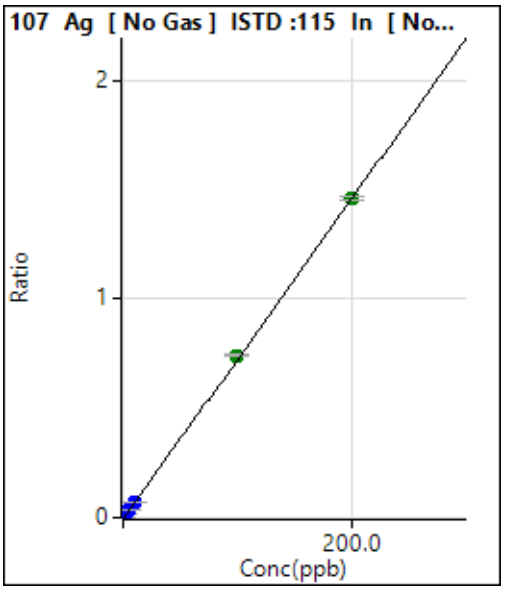


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	30.00	0.0000	P	57.5	
2	☐	2.000	1.986	15282.29	0.0052	P	0.6	-0.7
3	☐	5.000	4.957	38903.83	0.0130	P	1.9	-0.9
4	☐	10.000	10.012	77581.99	0.0262	P	2.5	0.1
5	☐	100.000	100.001	756689.18	0.2617	P	0.1	0.0
6	☑	200.000		1687039.97	0.5974	A	1.4	

y = 0.0026 * x + 1.0179E-005
R = 1.0000
DL = 0.006714 ppb
BEC = 0.00389 ppb

Weight: <None>
Min Conc: <None>

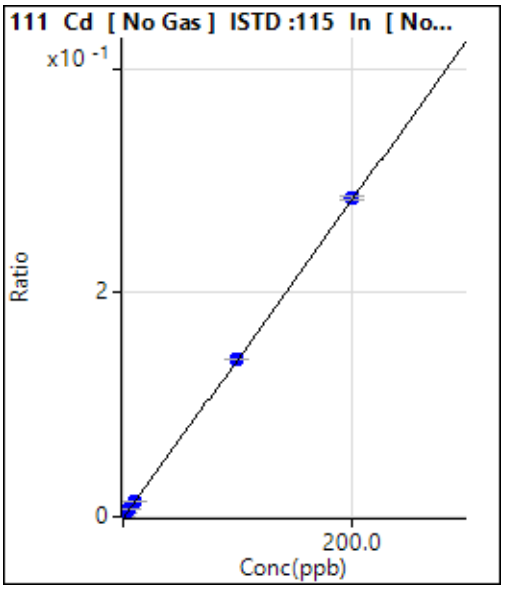
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	610.02	0.0002	P	16.4	
2	☐	2.000	1.914	41739.53	0.0142	P	1.2	-4.3
3	☐	5.000	4.701	103751.82	0.0346	P	3.0	-6.0
4	☐	10.000	9.563	207857.65	0.0702	P	1.0	-4.4
5	☐	100.000	101.363	2146398.98	0.7423	A	0.9	1.4
6	☐	200.000	199.349	4121936.09	1.4596	A	0.8	-0.3

y = 0.0073 * x + 2.0775E-004
R = 1.0000
DL = 0.01399 ppb
BEC = 0.02838 ppb

Weight: <None>
Min Conc: <None>

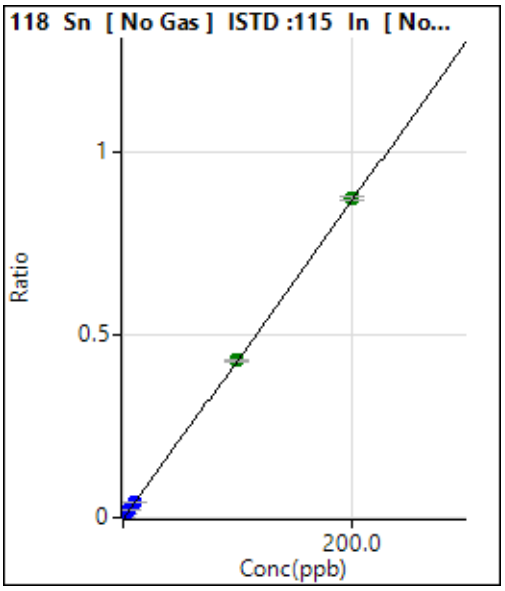


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	86.6	
2	☐	2.000	1.962	8172.68	0.0028	P	2.4	-1.9
3	☐	5.000	4.954	21070.36	0.0070	P	0.8	-0.9
4	☐	10.000	9.960	41836.51	0.0141	P	0.5	-0.4
5	☐	100.000	98.804	405325.23	0.1402	P	0.4	-1.2
6	☐	200.000	200.602	803694.23	0.2846	P	0.7	0.3

y = 0.0014 * x + 2.2508E-006
R = 1.0000
DL = 0.004123 ppb
BEC = 0.001587 ppb

Weight: <None>
Min Conc: <None>

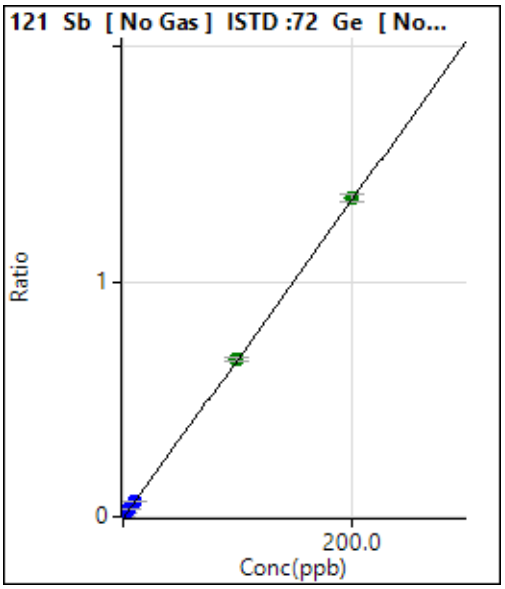
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1403.48	0.0005	P	7.6	
2	☐	2.000	1.819	24613.35	0.0084	P	2.2	-9.1
3	☐	5.000	4.465	59618.46	0.0199	P	2.1	-10.7
4	☐	10.000	9.110	118699.06	0.0401	P	1.8	-8.9
5	☐	100.000	98.568	1240955.63	0.4292	A	0.6	-1.4
6	☐	200.000	200.776	2467263.97	0.8737	A	0.6	0.4

y = 0.0043 * x + 4.7757E-004
R = 1.0000
DL = 0.02491 ppb
BEC = 0.1098 ppb

Weight: <None>
Min Conc: <None>

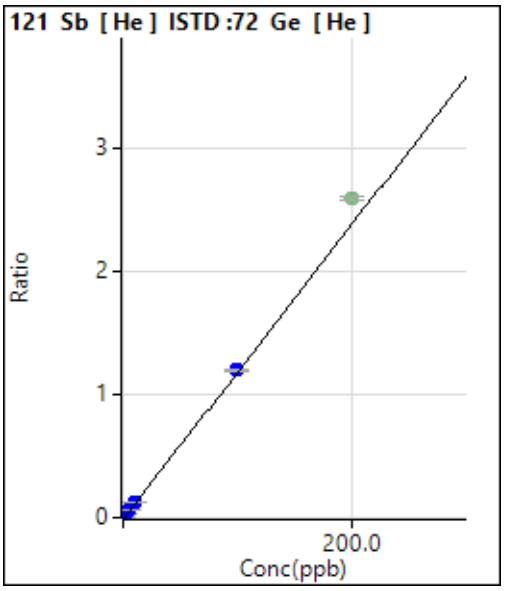


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	550.02	0.0002	P	16.2	
2	☐	2.000	1.883	34154.73	0.0129	P	1.2	-5.8
3	☐	5.000	4.689	84574.79	0.0319	P	0.9	-6.2
4	☐	10.000	9.430	169940.20	0.0640	P	0.8	-5.7
5	☐	100.000	98.971	1753740.91	0.6694	A	1.6	-1.0
6	☐	200.000	200.552	3452392.24	1.3561	A	2.1	0.3

y = 0.0068 * x + 2.0504E-004
R = 1.0000
DL = 0.0147 ppb
BEC = 0.03033 ppb

Weight: <None>
Min Conc: <None>

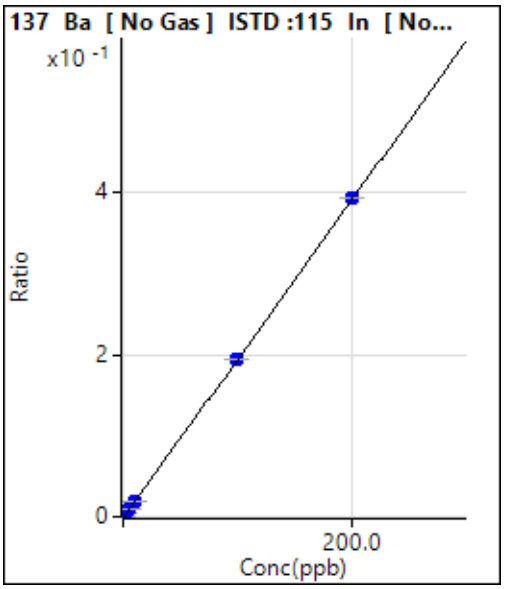
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	260.01	0.0004	P	11.4	
2	☐	2.000	1.988	16026.72	0.0242	P	2.0	-0.6
3	☐	5.000	5.130	40834.01	0.0618	P	0.5	2.6
4	☐	10.000	10.067	79939.39	0.1208	P	1.2	0.7
5	☐	100.000	99.987	790266.71	1.1964	P	1.0	0.0
6	☑	200.000		1662357.32	2.5936	A	0.8	

y = 0.0120 * x + 3.9543E-004
R = 1.0000
DL = 0.0113 ppb
BEC = 0.03306 ppb

Weight: <None>
Min Conc: <None>

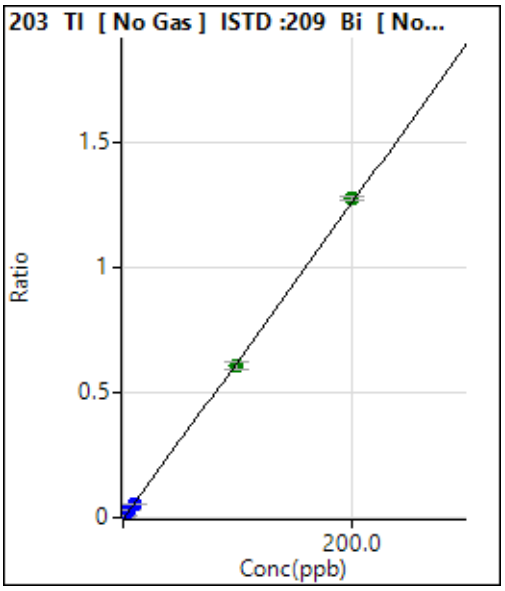


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	460.02	0.0002	P	8.6	
2	☐	2.000	1.985	11882.28	0.0040	P	2.3	-0.7
3	☐	5.000	4.741	28324.58	0.0095	P	2.5	-5.2
4	☐	10.000	9.676	56626.81	0.0191	P	1.5	-3.2
5	☐	100.000	99.151	562551.02	0.1946	P	0.6	-0.8
6	☐	200.000	200.447	1110277.38	0.3932	P	0.1	0.2

y = 0.0020 * x + 1.5632E-004
R = 1.0000
DL = 0.02066 ppb
BEC = 0.07973 ppb

Weight: <None>
Min Conc: <None>

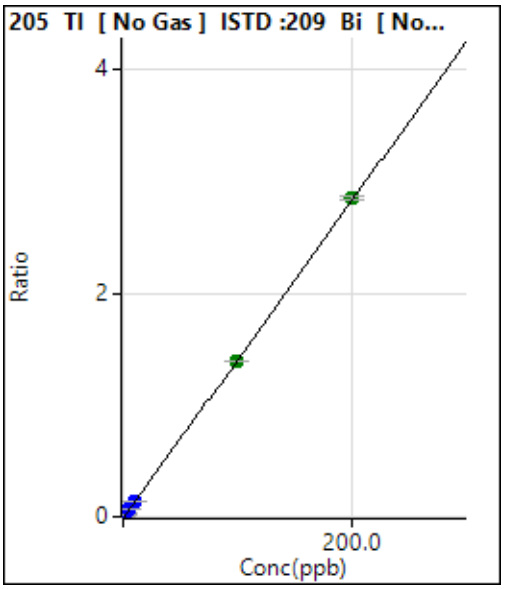
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	30.00	0.0000	P	57.8	
2	☐	2.000	1.728	27433.86	0.0110	P	1.0	-13.6
3	☐	5.000	4.388	69358.77	0.0278	P	0.8	-12.2
4	☐	10.000	8.760	139644.33	0.0555	P	1.5	-12.4
5	☐	100.000	96.145	1488070.92	0.6092	A	3.8	-3.9
6	☐	200.000	202.007	2985107.77	1.2800	A	1.6	1.0

y = 0.0063 * x + 1.2208E-005
R = 0.9997
DL = 0.003341 ppb
BEC = 0.001927 ppb

Weight: <None>
Min Conc: <None>

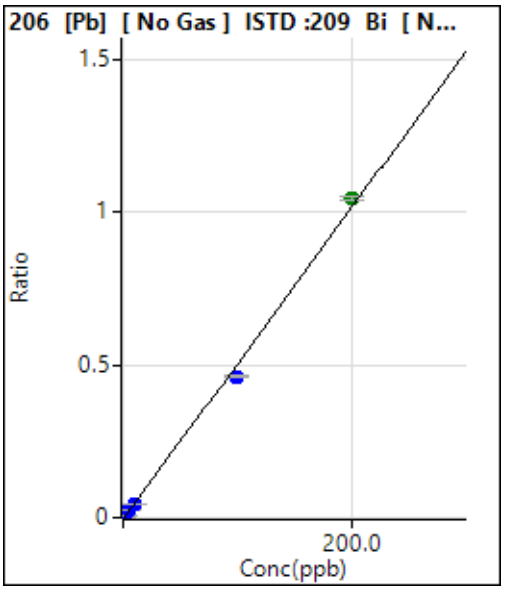


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	56.67	0.0000	P	10.3	
2	☐	2.000	1.812	64386.00	0.0257	P	1.9	-9.4
3	☐	5.000	4.640	164237.04	0.0659	P	0.4	-7.2
4	☐	10.000	9.335	333258.13	0.1325	P	1.1	-6.6
5	☐	100.000	98.330	3409236.61	1.3953	A	0.3	-1.7
6	☐	200.000	200.879	6648002.82	2.8504	A	1.0	0.4

y = 0.0142 * x + 2.3056E-005
R = 1.0000
DL = 0.0005012 ppb
BEC = 0.001625 ppb

Weight: <None>
Min Conc: <None>

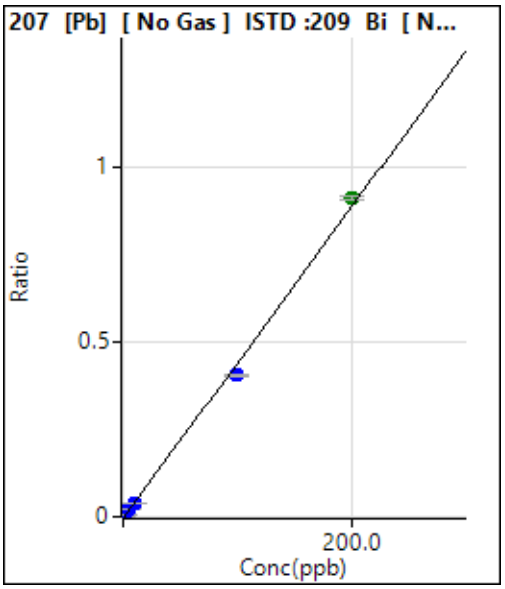
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	333.34	0.0001	P	27.2	
2	☐	2.000	1.755	22737.79	0.0091	P	2.0	-12.3
3	☐	5.000	4.454	56979.92	0.0229	P	1.4	-10.9
4	☐	10.000	9.063	116618.92	0.0464	P	0.8	-9.4
5	☐	100.000	90.338	1126063.24	0.4609	P	0.9	-9.7
6	☐	200.000	204.894	2437566.79	1.0452	A	1.2	2.4

y = 0.0051 * x + 1.3560E-004
R = 0.9984
DL = 0.02169 ppb
BEC = 0.02659 ppb

Weight: <None>
Min Conc: <None>

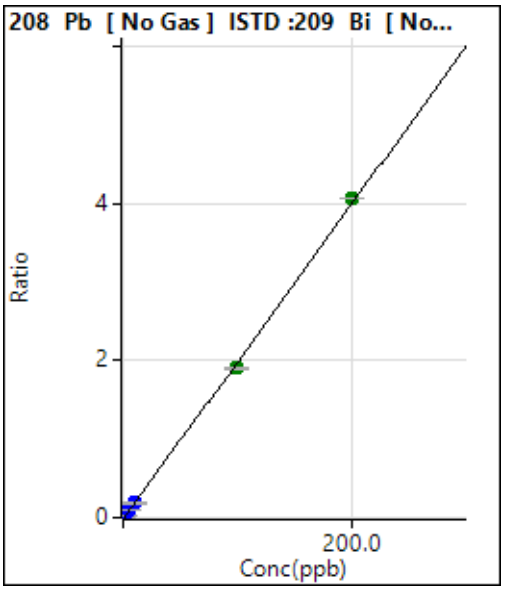


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	303.34	0.0001	P	26.8	
2	☐	2.000	1.758	19862.85	0.0079	P	1.6	-12.1
3	☐	5.000	4.467	49812.97	0.0200	P	1.2	-10.7
4	☐	10.000	9.060	101605.69	0.0404	P	1.7	-9.4
5	☐	100.000	90.714	985408.79	0.4033	P	0.6	-9.3
6	☐	200.000	204.706	2122367.62	0.9100	A	0.8	2.4

y = 0.0044 * x + 1.2340E-004
R = 0.9985
DL = 0.02233 ppb
BEC = 0.02776 ppb

Weight: <None>
Min Conc: <None>

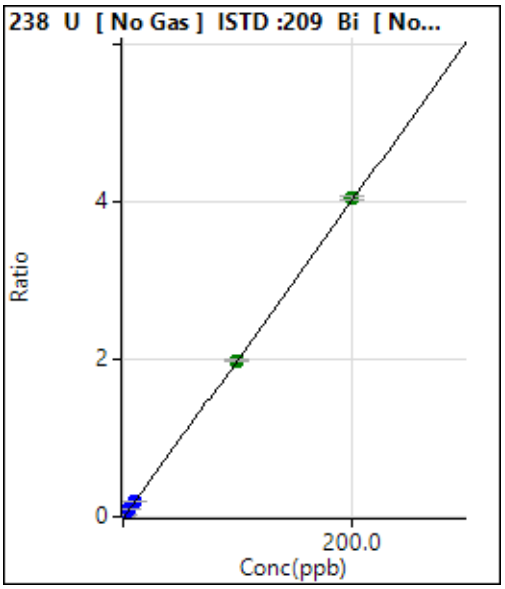
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1456.73	0.0006	P	16.4	
2	☐	2.000	1.783	91095.31	0.0364	P	0.9	-10.8
3	☐	5.000	4.545	229078.83	0.0919	P	0.9	-9.1
4	☐	10.000	9.143	463405.32	0.1842	P	0.8	-8.6
5	☐	100.000	94.807	4653264.85	1.9047	A	1.3	-5.2
6	☐	200.000	202.653	9494265.59	4.0707	A	0.5	1.3

y = 0.0201 * x + 5.9261E-004
R = 0.9995
DL = 0.01453 ppb
BEC = 0.02951 ppb

Weight: <None>
Min Conc: <None>

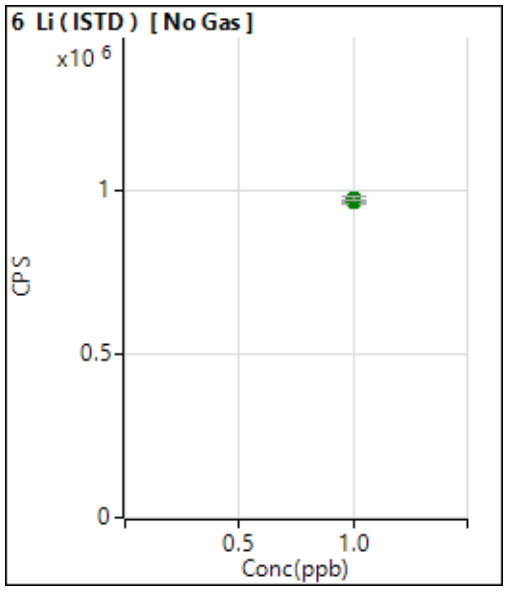


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	30.00	0.0000	P	33.2	
2	☐	2.000	1.788	90170.98	0.0360	P	0.1	-10.6
3	☐	5.000	4.591	230704.39	0.0925	P	0.8	-8.2
4	☐	10.000	9.283	470445.41	0.1870	P	0.5	-7.2
5	☐	100.000	98.171	4831913.99	1.9778	A	1.3	-1.8
6	☐	200.000	200.963	9442764.23	4.0487	A	0.8	0.5

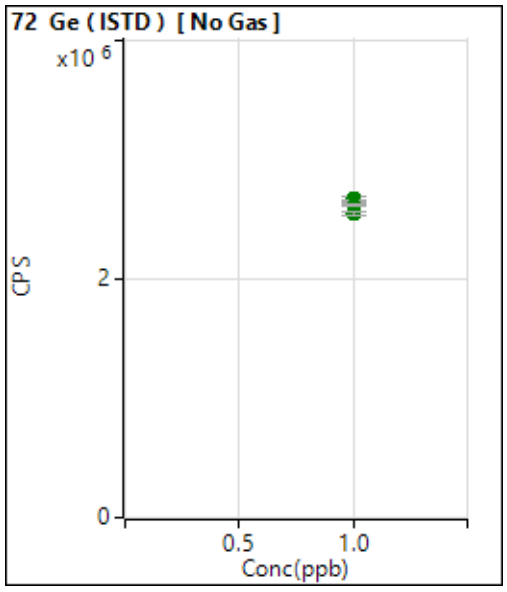
y = 0.0201 * x + 1.2203E-005
R = 0.9999
DL = 0.000604 ppb
BEC = 0.0006057 ppb

Weight: <None>
Min Conc: <None>

Calibration for 022_ICV.d

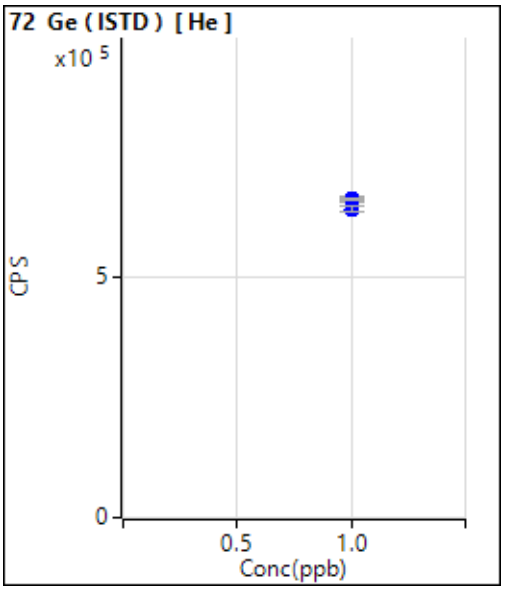


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		973852.57		A	1.0	
2	☐	1.000		961134.32		A	0.4	
3	☐	1.000		964843.72		A	0.4	
4	☐	1.000		962277.35		A	1.5	
5	☐	1.000		963971.46		A	1.3	
6	☐	1.000		973684.89		A	0.9	

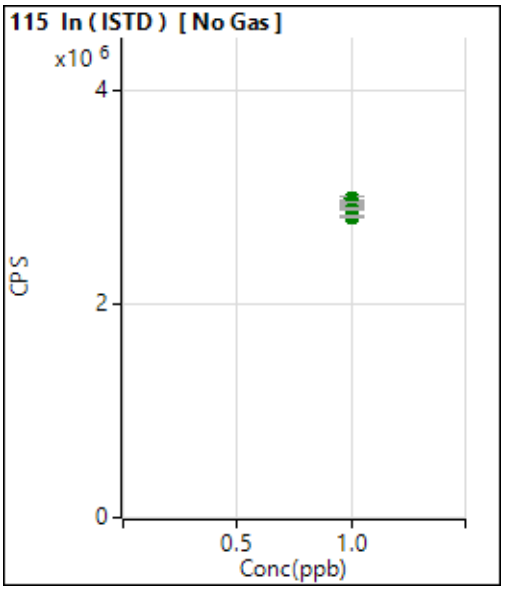


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2680899.65		A	0.6	
2	☐	1.000		2639898.76		A	0.9	
3	☐	1.000		2650531.53		A	0.3	
4	☐	1.000		2656779.75		A	1.0	
5	☐	1.000		2620173.09		A	0.6	
6	☐	1.000		2546194.55		A	1.3	

Calibration for 022_ICV.d

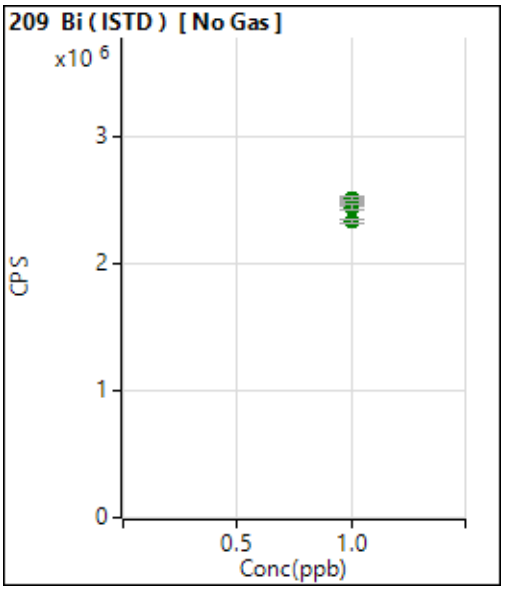


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		657482.18		P	0.4	
2	☐	1.000		662975.93		P	0.2	
3	☐	1.000		661147.59		P	0.4	
4	☐	1.000		661636.74		P	1.2	
5	☐	1.000		660575.08		P	0.7	
6	☐	1.000		640902.97		P	1.4	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2941541.56		A	1.8	
2	☐	1.000		2934786.00		A	0.7	
3	☐	1.000		2996984.88		A	1.0	
4	☐	1.000		2960323.59		A	0.6	
5	☐	1.000		2891563.56		A	0.5	
6	☐	1.000		2824021.70		A	0.5	

Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2457983.87		A	0.1	
2	☐	1.000		2502408.92		A	1.0	
3	☐	1.000		2493699.28		A	1.7	
4	☐	1.000		2515456.16		A	0.7	
5	☐	1.000		2443436.99		A	1.9	
6	☐	1.000		2332437.72		A	1.1	

Sample Report

Sample Table

Sample Name	LLICV2
Data File Name	023LCV2.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T12:51:17-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	015CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	1.944	1.944	0.83	83837	0.00	2	
Be	9	1	No Gas	1.931	1.931	1.22	7834	0.02	2	
V	51	2	He	1.778	1.778	3.71	14081	0.01	2	
Cr	52	2	He	1.872	1.872	1.42	16373	0.01	2	
Fe	56	2	He	210.220	210.220	1.18	1567575	0.01	200	
Se	78	2	He	1.997	1.997	14.77	312	0.64	2	
As	75	2	He	1.961	1.961	3.52	2525	0.08	2	
Ca	44	2	He	190.718	190.718	4.89	7462	2.56	200	
Na	23	2	He	179.441	179.441	1.73	322796	0.06	200	
Mg	24	2	He	183.373	183.373	0.73	119264	0.15	200	
K	39	2	He	185.655	185.655	1.44	190213	0.10	200	
Mn	55	2	He	2.001	2.001	1.94	10691	0.02	2	
Co	59	2	He	1.908	1.908	1.72	26432	0.01	2	
Ni	60	2	He	2.091	2.091	2.18	7546	0.03	2	
Cu	63	2	He	1.923	1.923	4.01	20282	0.01	2	
Zn	66	2	He	1.720	1.720	3.87	3704	0.05	2	
Al	27	2	He	1.312	1.312	17.05	1470	0.09	2	NewName Main CR1 Failed
B	11	1	No Gas	17.304	17.304	5.63	49454	0.03	10	NewName Main CR1 Failed
Al	27	1	No Gas	1.810	1.810	3.76	95839	0.00	2	
Si	28	1	No Gas	14.245	14.245	2.56	543442	0.00	10	NewName Main CR1 Failed
Ag	107	1	No Gas	1.864	1.864	2.15	40539	0.00	2	
Cd	111	1	No Gas	1.947	1.947	1.22	8089	0.02	2	
Sr	88	1	No Gas	1.889	1.889	1.26	75647	0.00	2	
Mo	95	1	No Gas	2.024	2.024	2.93	15536	0.01	2	
Sn	118	1	No Gas	1.807	1.807	2.65	24403	0.01	2	
Sb	121	1	No Gas	1.866	1.866	4.20	33359	0.01	2	
Ba	137	1	No Gas	1.932	1.932	2.36	11545	0.02	2	
Tl	205	1	No Gas	1.874	1.874	1.54	65951	0.00	2	
Tl	203	1	No Gas	1.724	1.724	2.81	27096	0.01	2	
Pb	208	1	No Gas	1.812	1.812	1.72	91617	0.00	2	
U	238	1	No Gas	1.810	1.810	2.04	90359	0.00	2	
Ca	43	2	He	235.235	235.235	29.82	513	45.82	200	
Sb	121	2	He	2.035	2.035	1.22	16477	0.01	2	
Ti	47	2	He	1.938	1.938	4.96	443	0.44	200	
Cu	63	1	No Gas	1.931	1.931	1.40	35807	0.01	2	
Se	82	1	No Gas	2.922	2.922	8.53	476	0.61	2	NewName Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1001559	0.95	973853	102.84	70	120	
Ge	72	2	He	666081	0.29	657482	101.31	70	120	
Ge	72	1	No Gas	2602036	0.08	2680900	97.06	70	120	
In	115	1	No Gas	2927006	1.17	2941542	99.51	70	120	
Bi	209	1	No Gas	2478103	1.67	2457984	100.82	70	120	

Sample Report

Sample Table

Sample Name	LLICV5
Data File Name	024LCV5.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T12:53:10-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	015CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	4.844	4.844	1.70	127929	0.00	5	
Be	9	1	No Gas	4.724	4.724	0.62	19312	0.02	5	
V	51	2	He	4.923	4.923	0.64	35090	0.01	5	
Cr	52	2	He	4.864	4.864	1.92	41156	0.01	5	
Fe	56	2	He	515.969	515.969	0.93	3804057	0.01	500	
Se	78	2	He	5.321	5.321	10.85	612	0.87	5	
As	75	2	He	5.024	5.024	2.84	6253	0.08	5	
Ca	44	2	He	495.552	495.552	1.45	17852	2.78	500	
Na	23	2	He	465.537	465.537	0.55	648586	0.07	500	
Mg	24	2	He	472.053	472.053	0.67	303798	0.16	500	
K	39	2	He	469.837	469.837	0.19	384084	0.12	500	
Mn	55	2	He	5.030	5.030	1.57	25881	0.02	5	
Co	59	2	He	4.833	4.833	0.20	66432	0.01	5	
Ni	60	2	He	5.151	5.151	3.01	18042	0.03	5	
Cu	63	2	He	4.857	4.857	2.43	48781	0.01	5	
Zn	66	2	He	5.039	5.039	4.44	9103	0.06	5	
Al	27	2	He	4.925	4.925	4.73	2487	0.20	5	
B	11	1	No Gas	26.401	26.401	2.54	72201	0.04	25	
Al	27	1	No Gas	4.342	4.342	3.39	143306	0.00	5	
Si	28	1	No Gas	27.189	27.189	1.96	664893	0.00	25	
Ag	107	1	No Gas	4.810	4.810	0.73	104937	0.00	5	
Cd	111	1	No Gas	4.914	4.914	1.33	20656	0.02	5	
Sr	88	1	No Gas	4.820	4.820	1.47	190907	0.00	5	
Mo	95	1	No Gas	4.894	4.894	1.24	37971	0.01	5	
Sn	118	1	No Gas	4.425	4.425	0.37	58420	0.01	5	
Sb	121	1	No Gas	4.775	4.775	2.68	86102	0.01	5	
Ba	137	1	No Gas	4.831	4.831	2.14	28522	0.02	5	
Tl	205	1	No Gas	4.675	4.675	2.60	164744	0.00	5	
Tl	203	1	No Gas	4.491	4.491	1.76	70670	0.01	5	
Pb	208	1	No Gas	4.605	4.605	0.95	231058	0.00	5	
U	238	1	No Gas	4.605	4.605	1.75	230369	0.00	5	
Ca	43	2	He	460.898	460.898	14.65	967	47.68	500	
Sb	121	2	He	5.147	5.147	3.16	40965	0.01	5	
Ti	47	2	He	5.072	5.072	3.29	1147	0.44	5	
Cu	63	1	No Gas	4.834	4.834	0.68	87742	0.01	5	
Se	82	1	No Gas	5.032	5.032	28.47	1002	0.50	5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1011266	1.83	973853	103.84	70	120	
Ge	72	2	He	661171	0.81	657482	100.56	70	120	
Ge	72	1	No Gas	2650404	0.93	2680900	98.86	70	120	

Sample Report

In	115	1	No Gas	2962112	1.30	2941542	100.70	70	120	
Bi	209	1	No Gas	2482532	0.19	2457984	101.00	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	025_ICB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T12:55:03-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.083	21.0	54786	0.7	0.5	
Be	9	1	No Gas	0.005	79.6	43	37.1	0.5	
V	51	2	He	-0.122	-0.6	1199	0.8	2.5	
Cr	52	2	He	0.269	11.0	2857	8.9	2.5	
Fe	56	2	He	1.634	2.6	21868	1.5	100	
Se	78	2	He	0.071	182.0	132	9.2	1	
As	75	2	He	-0.011	-168.7	92	23.2	2.5	
Ca	44	2	He	-7.583	-10.1	600	4.4	100	
Na	23	2	He	-4.089	-23.2	107761	0.5	100	
Mg	24	2	He	0.458	21.2	880	7.1	100	
K	39	2	He	0.358	599.5	60288	2.5	100	
Mn	55	2	He	0.182	10.0	1417	6.9	2.5	
Co	59	2	He	0.006	48.5	107	35.5	2.5	
Ni	60	2	He	0.081	33.7	547	17.4	2.5	
Cu	63	2	He	0.279	5.3	3994	4.0	1	
Zn	66	2	He	0.566	24.8	1757	13.2	2.5	
Al	27	2	He	-1.549	-23.9	633	16.4	5	
B	11	1	No Gas	5.171	4.0	19497	2.2	0.5	ICB Main CR1 Failed
Al	27	1	No Gas	-1.259	-1.4	41295	0.7	5	
Si	28	1	No Gas	-2.806	-21.6	397641	0.6	10	
Ag	107	1	No Gas	0.014	26.3	897	8.9	2.5	
Cd	111	1	No Gas	0.003	72.8	20	50.0	1	
Sr	88	1	No Gas	-0.034	-7.5	1490	5.7	2.5	
Mo	95	1	No Gas	0.015	24.0	140	18.9	2.5	
Sn	118	1	No Gas	0.114	3.2	2797	2.5	5	
Sb	121	1	No Gas	0.014	52.0	777	16.6	2.5	
Ba	137	1	No Gas	0.084	43.9	920	22.6	2.5	
Tl	205	1	No Gas	0.006	5.4	273	4.2	1	
Tl	203	1	No Gas	0.006	26.0	130	20.4	1	
Pb	208	1	No Gas	0.007	25.4	1837	5.6	2.5	
U	238	1	No Gas	0.002	28.5	120	22.0	2.5	
Ca	43	2	He	-1.430	-356.5	30	33.3	100	
Sb	121	2	He	0.016	45.8	380	14.7	2.5	
Ti	47	2	He	0.076	59.7	20	50.0	2.5	
Se	82	1	No Gas	0.165	853.1	-186	-180.2	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	974312	0.31	973853	100.05	70	120	
Ge	72	2	He	648334	0.53	657482	98.61	70	120	
Ge	72	1	No Gas	2590678	0.76	2680900	96.63	70	120	
In	115	1	No Gas	2871731	0.88	2941542	97.63	70	120	
Bi	209	1	No Gas	2485313	0.76	2457984	101.11	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	026ICSA.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T12:57:59-05:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.452	10.4	58253	1.4	0	ICSA Main CR1 Failed
Be	9	1	No Gas	0.004	56.5	37	20.8	0	ICSA Main CR1 Failed
V	51	2	He	-0.087	-6.4	1373	2.3	0	ICSA Main CR1 Failed
Cr	52	2	He	1.462	2.8	12106	3.0	0	ICSA Main CR1 Failed
Fe	56	2	He	98310.370	0.4	681388737	0.7	0	
Se	78	2	He	0.108	90.3	130	6.7	0	ICSA Main CR1 Failed
As	75	2	He	0.026	49.6	131	11.7	0	ICSA Main CR1 Failed
Ca	44	2	He	104277.293	1.1	3368730	0.7	0	
Na	23	2	He	100422.168	0.4	108686535	0.5	0	
Mg	24	2	He	100006.426	0.9	60547546	1.0	0	
K	39	2	He	99450.324	0.8	64471411	1.0	0	
Mn	55	2	He	0.286	2.6	1853	1.9	0	ICSA Main CR1 Failed
Co	59	2	He	0.110	3.9	1453	4.2	0	ICSA Main CR1 Failed
Ni	60	2	He	0.404	4.0	1577	3.5	0	ICSA Main CR1 Failed
Cu	63	2	He	0.051	6.1	1747	1.2	0	ICSA Main CR1 Failed
Zn	66	2	He	0.304	17.4	1283	5.8	0	ICSA Main CR1 Failed
Al	27	2	He	96261.780	0.8	25798855	0.8	0	
B	11	1	No Gas	6.974	4.2	23022	3.2	0	
Al	27	1	No Gas	92093.765	0.9	1577988883	0.7	0	
Si	28	1	No Gas	15.867	0.9	538840	0.7	0	ICSA Main CR1 Failed
Ag	107	1	No Gas	0.003	89.1	617	6.1	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	1.010	4.8	3897	6.2	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	1.148	4.0	43655	3.3	0	ICSA Main CR1 Failed
Mo	95	1	No Gas	2125.585	1.6	15092979	0.1	0	
Sn	118	1	No Gas	0.022	67.6	1557	10.5	0	ICSA Main CR1 Failed
Sb	121	1	No Gas	0.092	10.7	2084	8.2	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	0.533	5.0	3260	3.5	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	0.004	65.6	190	47.4	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	0.004	55.6	87	37.1	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.041	11.6	3244	6.8	0	ICSA Main CR1 Failed
U	238	1	No Gas	0.018	12.8	853	11.5	0	ICSA Main CR1 Failed
Ca	43	2	He	93994.262	0.8	179322	0.8	0	
Sb	121	2	He	0.088	8.2	903	5.5	0	ICSA Main CR1 Failed
Ti	47	2	He	2035.762	0.9	432491	1.0	0	
Se	82	1	No Gas	-0.873	-158.4	-424	-76.3	0	ICSA Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	944481	1.41	973853	96.98	70	120	
Ge	72	2	He	623207	0.47	657482	94.79	70	120	
Ge	72	1	No Gas	2516523	0.58	2680900	93.87	70	120	
In	115	1	No Gas	2713957	1.52	2941542	92.26	70	120	
Bi	209	1	No Gas	2291646	0.99	2457984	93.23	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	027ICSB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T12:59:54-05:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	94.176	2.292	1335156	2.49	100	94.2	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	91.797	0.656	342358	0.40	100	91.8	80	120	
V	51	2	He	97.975	1.372	617383	0.65	100	98.0	80	120	
Cr	52	2	He	94.013	1.483	732819	0.70	100	94.0	80	120	
Fe	56	2	He	106295.757	0.710	731429616	0.14	100	106295.8	80	120	ICSB Main CR1 Failed
Se	78	2	He	97.343	1.214	8409	0.42	100	97.3	80	120	
As	75	2	He	96.521	1.402	110586	0.81	100	96.5	80	120	
Ca	44	2	He	112598.879	0.875	3611455	0.71	100	112598.9	80	120	
Na	23	2	He	108015.358	0.968	116054372	0.35	100	108015.4	80	120	ICSB Main CR1 Failed
Mg	24	2	He	107781.040	0.734	64785099	0.33	100	107781.0	80	120	ICSB Main CR1 Failed
K	39	2	He	106849.685	0.971	68765632	0.70	100	106849.7	80	120	ICSB Main CR1 Failed
Mn	55	2	He	96.396	0.655	455269	0.72	100	96.4	80	120	
Co	59	2	He	94.602	3.413	1216321	3.20	100	94.6	80	120	
Ni	60	2	He	94.723	1.550	306002	0.94	100	94.7	80	120	
Cu	63	2	He	89.457	0.838	818830	0.77	100	89.5	80	120	
Zn	66	2	He	96.458	1.884	148395	1.31	100	96.5	80	120	
Al	27	2	He	94442.272	0.559	25129445	0.24	100	94442.3	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	479.528	0.706	1079344	0.70	100	479.5	80	120	
Al	27	1	No Gas	89210.858	0.710	1511516564	1.34	100	89210.9	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	491.497	2.836	4374905	2.63	100	491.5	80	120	
Ag	107	1	No Gas	92.316	2.839	1847446	1.54	100	92.3	80	120	
Cd	111	1	No Gas	94.508	1.646	366458	1.20	100	94.5	80	120	
Sr	88	1	No Gas	98.178	0.917	3537616	0.97	100	98.2	80	120	
Mo	95	1	No Gas	2183.310	0.767	15615801	1.16	100	2183.3	80	120	ICSB Main CR1 Failed
Sn	118	1	No Gas	89.144	0.945	1060953	0.49	100	89.1	80	120	
Sb	121	1	No Gas	95.454	1.667	1606211	0.58	100	95.5	80	120	
Ba	137	1	No Gas	96.348	1.761	516707	1.20	100	96.3	80	120	
Tl	205	1	No Gas	95.860	0.415	3132837	0.25	100	95.9	80	120	
Tl	203	1	No Gas	90.989	0.264	1327841	0.50	100	91.0	80	120	
Pb	208	1	No Gas	91.436	0.469	4230861	0.54	100	91.4	80	120	
U	238	1	No Gas	98.056	0.414	4549840	0.69	100	98.1	80	120	
Ca	43	2	He	101917.360	1.182	193039	1.00	100	101917.4	80	120	ICSB Main CR1 Failed
Sb	121	2	He	96.539	0.763	714714	0.44	100	96.5	80	120	
Ti	47	2	He	2093.280	0.925	441510	0.63	100	2093.3	80	120	ICSB Main CR1 Failed
Cu	63	1	No Gas	93.799	0.528	1557514	1.15	100	93.8	80	120	
Se	82	1	No Gas	95.489	2.407	21789	3.32	100	95.5	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	923619	0.38	973853	94.84	70	120	
Ge	72	2	He	618746	0.78	657482	94.11	70	120	
Ge	72	1	No Gas	2488352	1.14	2680900	92.82	70	120	
In	115	1	No Gas	2733375	1.28	2941542	92.92	70	120	
Bi	209	1	No Gas	2303136	0.29	2457984	93.70	70	120	

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	159CALB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T19:54:04-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	44734	0.00
Be	9	1	No Gas	3	2598.08
V	51	2	He	2445	0.14
Cr	52	2	He	553	3.22
Fe	56	2	He	10945	0.03
Se	78	2	He	133	6.94
As	75	2	He	128	11.24
Ca	44	2	He	467	1.86
Na	23	2	He	108453	0.00
Mg	24	2	He	360	4.82
K	39	2	He	54103	0.00
Mn	55	2	He	487	0.97
Co	59	2	He	30	293.97
Ni	60	2	He	1743	0.18
Cu	63	2	He	5214	0.07
Zn	66	2	He	333	1.87
Al	27	2	He	803	0.18
B	11	1	No Gas	5409	0.10
Al	27	1	No Gas	48923	0.00
Si	28	1	No Gas	344820	0.00
Ag	107	1	No Gas	660	1.40
Cd	111	1	No Gas	10	0.00
Sr	88	1	No Gas	1980	0.37
Mo	95	1	No Gas	47	140.28
Sn	118	1	No Gas	657	2.15
Sb	121	1	No Gas	383	5.11
Ba	137	1	No Gas	237	10.91
Tl	205	1	No Gas	63	87.55
Tl	203	1	No Gas	40	125.00
Pb	208	1	No Gas	1017	0.15
U	238	1	No Gas	3	5196.15
Ca	43	2	He	23	590.43
Sb	121	2	He	180	16.33
Cu	63	1	No Gas	8770	0.05

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	6	1	No Gas	839053	2.59

Calibration Blank Report

Ge	72	2	He	589070	1.37
Ge	72	1	No Gas	2387222	0.39
In	115	1	No Gas	2718732	1.47
Bi	209	1	No Gas	2414089	1.61

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	160CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T19:56:01-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	159CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	6415	0.01
V	51	2	He	14432	0.01
Cr	52	2	He	14798	0.02
Fe	56	2	He	1376865	0.00
Se	78	2	He	279	2.82
As	75	2	He	2202	0.20
Ca	44	2	He	6512	0.08
Na	23	2	He	304340	0.00
Mg	24	2	He	109132	0.00
K	39	2	He	167783	0.00
Mn	55	2	He	9594	0.05
Co	59	2	He	23447	0.01
Ni	60	2	He	11221	0.02
Cu	63	2	He	35466	0.00
Zn	66	2	He	3614	0.25
Al	27	2	He	1340	0.17
B	11	1	No Gas	23678	0.01
Al	27	1	No Gas	82350	0.00
Si	28	1	No Gas	418219	0.00
Ag	107	1	No Gas	37828	0.00
Cd	111	1	No Gas	7419	0.04
Sr	88	1	No Gas	68726	0.00
Mo	95	1	No Gas	13440	0.01
Sn	118	1	No Gas	21969	0.01
Sb	121	1	No Gas	30436	0.00
Ba	137	1	No Gas	10688	0.00
Tl	205	1	No Gas	63699	0.00
Tl	203	1	No Gas	26612	0.01
Pb	208	1	No Gas	88576	0.00
U	238	1	No Gas	88629	0.00
Ca	43	2	He	453	6.48
Sb	121	2	He	14148	0.03
Cu	63	1	No Gas	60220	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	829475	2.06	839053	98.86	70	120	
Ge	72	2	He	595842	0.25	589070	101.15	70	120	
Ge	72	1	No Gas	2395305	0.69	2387222	100.34	70	120	

Calibration Standard Report

In	115	1	No Gas	2737850	2.06	2718732	100.70	70	120	
Bi	209	1	No Gas	2431866	0.73	2414089	100.74	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	161CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T19:57:59-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	159CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	16156	0.01
V	51	2	He	32705	0.01
Cr	52	2	He	37218	0.00
Fe	56	2	He	3385764	0.00
Se	78	2	He	537	1.13
As	75	2	He	5446	0.02
Ca	44	2	He	15496	0.04
Na	23	2	He	596283	0.00
Mg	24	2	He	272523	0.00
K	39	2	He	335852	0.00
Mn	55	2	He	23223	0.00
Co	59	2	He	59580	0.00
Ni	60	2	He	16343	0.01
Cu	63	2	He	43918	0.00
Zn	66	2	He	7749	0.03
Al	27	2	He	2127	0.16
B	11	1	No Gas	51352	0.00
Al	27	1	No Gas	122052	0.00
Si	28	1	No Gas	522961	0.00
Ag	107	1	No Gas	93107	0.00
Cd	111	1	No Gas	18987	0.01
Sr	88	1	No Gas	166624	0.00
Mo	95	1	No Gas	33827	0.01
Sn	118	1	No Gas	54038	0.00
Sb	121	1	No Gas	76764	0.00
Ba	137	1	No Gas	26387	0.01
Tl	205	1	No Gas	161475	0.00
Tl	203	1	No Gas	67462	0.00
Pb	208	1	No Gas	221253	0.00
U	238	1	No Gas	222079	0.00
Ca	43	2	He	837	0.50
Sb	121	2	He	34963	0.00
Cu	63	1	No Gas	75188	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	832337	2.58	839053	99.20	70	120	
Ge	72	2	He	593657	0.48	589070	100.78	70	120	
Ge	72	1	No Gas	2379728	1.56	2387222	99.69	70	120	

Calibration Standard Report

In	115	1	No Gas	2756567	0.35	2718732	101.39	70	120	
Bi	209	1	No Gas	2475669	0.91	2414089	102.55	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	162CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T19:59:56-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	159CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	32598	0.00
V	51	2	He	61532	0.00
Cr	52	2	He	71875	0.00
Fe	56	2	He	6479883	0.00
Se	78	2	He	867	0.66
As	75	2	He	10960	0.02
Ca	44	2	He	29545	0.01
Na	23	2	He	1181585	0.00
Mg	24	2	He	535843	0.00
K	39	2	He	608294	0.00
Mn	55	2	He	44670	0.00
Co	59	2	He	116215	0.00
Ni	60	2	He	31908	0.01
Cu	63	2	He	85763	0.00
Zn	66	2	He	15109	0.04
Al	27	2	He	3397	0.09
B	11	1	No Gas	99158	0.00
Al	27	1	No Gas	194128	0.00
Si	28	1	No Gas	711230	0.00
Ag	107	1	No Gas	186166	0.00
Cd	111	1	No Gas	38199	0.01
Sr	88	1	No Gas	335661	0.00
Mo	95	1	No Gas	66214	0.00
Sn	118	1	No Gas	107907	0.00
Sb	121	1	No Gas	153736	0.00
Ba	137	1	No Gas	53373	0.00
Tl	205	1	No Gas	324005	0.00
Tl	203	1	No Gas	138607	0.00
Pb	208	1	No Gas	447032	0.00
U	238	1	No Gas	455924	0.00
Ca	43	2	He	1783	0.12
Sb	121	2	He	69668	0.00
Cu	63	1	No Gas	150550	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	822480	0.85	839053	98.02	70	120	
Ge	72	2	He	582633	0.74	589070	98.91	70	120	
Ge	72	1	No Gas	2399768	1.15	2387222	100.53	70	120	

Calibration Standard Report

In	115	1	No Gas	2718972	0.69	2718732	100.01	70	120	
Bi	209	1	No Gas	2459760	1.20	2414089	101.89	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	163CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T20:01:54-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	159CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	325679	0.00
V	51	2	He	609185	0.00
Cr	52	2	He	724829	0.00
Fe	56	2	He	64625389	0.00
Se	78	2	He	8045	0.04
As	75	2	He	108260	0.00
Ca	44	2	He	299775	0.00
Na	23	2	He	10532996	0.00
Mg	24	2	He	5734658	0.00
K	39	2	He	6049111	0.00
Mn	55	2	He	446985	0.00
Co	59	2	He	1252211	0.00
Ni	60	2	He	314557	0.00
Cu	63	2	He	852619	0.00
Zn	66	2	He	149278	0.00
Al	27	2	He	26442	0.01
B	11	1	No Gas	996824	0.00
Al	27	1	No Gas	1651563	0.00
Si	28	1	No Gas	3893227	0.00
Ag	107	1	No Gas	1958164	0.00
Cd	111	1	No Gas	377370	0.00
Sr	88	1	No Gas	3447825	0.00
Mo	95	1	No Gas	677565	0.00
Sn	118	1	No Gas	1069082	0.00
Sb	121	1	No Gas	1618973	0.00
Ba	137	1	No Gas	526380	0.00
Tl	205	1	No Gas	3371844	0.00
Tl	203	1	No Gas	1446057	0.00
Pb	208	1	No Gas	4551449	0.00
U	238	1	No Gas	4737348	0.00
Ca	43	2	He	17842	0.01
Sb	121	2	He	703652	0.00
Cu	63	1	No Gas	1547692	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	796909	1.47	839053	94.98	70	120	
Ge	72	2	He	592953	0.44	589070	100.66	70	120	
Ge	72	1	No Gas	2337325	1.26	2387222	97.91	70	120	

Calibration Standard Report

In	115	1	No Gas	2668537	0.48	2718732	98.15	70	120	
Bi	209	1	No Gas	2364681	1.65	2414089	97.95	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	164CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T20:03:46-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	159CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	641687	0.00
V	51	2	He	1349762	0.00
Cr	52	2	He	1476444	0.00
Fe	56	2	He	126732951	0.00
Se	78	2	He	15675	0.00
As	75	2	He	212541	0.00
Ca	44	2	He	588900	0.00
Na	23	2	He	20242920	0.00
Mg	24	2	He	11218092	0.00
K	39	2	He	11747969	0.00
Mn	55	2	He	875605	0.00
Co	59	2	He	2437931	0.00
Ni	60	2	He	607507	0.00
Cu	63	2	He	1756949	0.00
Zn	66	2	He	286524	0.00
Al	27	2	He	51174	0.00
B	11	1	No Gas	1958750	0.00
Al	27	1	No Gas	3105295	0.00
Si	28	1	No Gas	7190539	0.00
Ag	107	1	No Gas	3757108	0.00
Cd	111	1	No Gas	744876	0.00
Sr	88	1	No Gas	6683342	0.00
Mo	95	1	No Gas	1492615	0.00
Sn	118	1	No Gas	2296311	0.00
Sb	121	1	No Gas	3182845	0.00
Ba	137	1	No Gas	1039729	0.00
Tl	205	1	No Gas	6455168	0.00
Tl	203	1	No Gas	2883972	0.00
Pb	208	1	No Gas	9197263	0.00
U	238	1	No Gas	9221956	0.00
Ca	43	2	He	34567	0.00
Sb	121	2	He	1485988	0.00
Cu	63	1	No Gas	2966153	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	777083	2.12	839053	92.61	70	120	
Ge	72	2	He	575306	0.77	589070	97.66	70	120	
Ge	72	1	No Gas	2308506	1.69	2387222	96.70	70	120	

Calibration Standard Report

In	115	1	No Gas	2587534	0.99	2718732	95.17	70	120	
Bi	209	1	No Gas	2309297	0.87	2414089	95.66	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICCV
Data File Name	166_ICV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T20:07:28-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	159CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	101.361	2.782	1255692	2.27	100	101.4	90	110	
Be	9	1	No Gas	99.108	1.077	327804	0.82	100	99.1	90	110	
V	51	2	He	88.408	0.300	616510	0.58	100	88.4	90	110	ICV Main CR1 Failed
Cr	52	2	He	95.663	0.572	740154	0.73	100	95.7	90	110	
Fe	56	2	He	9732.134	0.787	65105749	0.80	10000	97.3	90	110	
Se	78	2	He	99.680	0.759	8312	0.91	100	99.7	90	110	
As	75	2	He	101.667	1.185	114082	1.45	100	101.7	90	110	
Ca	44	2	He	9728.881	1.388	302499	1.72	10000	97.3	90	110	
Na	23	2	He	9783.950	1.368	10542839	1.58	10000	97.8	90	110	
Mg	24	2	He	9803.295	0.133	5806798	0.45	10000	98.0	90	110	
K	39	2	He	9688.155	0.518	6041410	0.84	10000	96.9	90	110	
Mn	55	2	He	99.082	0.973	458226	1.20	100	99.1	90	110	
Co	59	2	He	99.825	2.047	1286196	2.27	100	99.8	90	110	
Ni	60	2	He	99.508	0.464	320764	0.67	100	99.5	90	110	
Cu	63	2	He	93.789	0.119	863616	0.33	100	93.8	90	110	
Zn	66	2	He	98.389	0.675	149577	0.70	100	98.4	90	110	
Al	27	2	He	96.328	3.287	26439	3.12	100	96.3	90	110	
B	11	1	No Gas	489.631	1.165	991392	1.64	500	97.9	90	110	
Al	27	1	No Gas	97.692	1.758	1608360	2.68	100	97.7	90	110	
Si	28	1	No Gas	494.867	0.904	3880367	0.84	500	99.0	90	110	
Ag	107	1	No Gas	101.001	0.093	2009259	1.24	100	101.0	90	110	
Cd	111	1	No Gas	98.256	1.309	385310	0.29	100	98.3	90	110	
Sr	88	1	No Gas	98.561	0.554	3481172	1.15	100	98.6	90	110	
Mo	95	1	No Gas	88.088	1.634	677795	0.36	100	88.1	90	110	ICV Main CR1 Failed
Sn	118	1	No Gas	91.787	0.979	1091959	0.34	100	91.8	90	110	
Sb	121	1	No Gas	100.517	1.418	1659604	0.79	100	100.5	90	110	
Ba	137	1	No Gas	98.173	0.567	537430	0.93	100	98.2	90	110	
Tl	205	1	No Gas	102.482	1.403	3450263	1.11	100	102.5	90	110	
Tl	203	1	No Gas	101.124	2.319	1508393	1.88	100	101.1	90	110	
Pb	208	1	No Gas	96.648	1.242	4586434	1.01	100	96.6	90	110	
U	238	1	No Gas	98.118	1.186	4703154	1.23	100	98.1	90	110	
Ca	43	2	He	9694.126	1.616	17738	1.28	10000	96.9	90	110	
Sb	121	2	He	93.970	0.028	726597	0.33	100	94.0	90	110	
Ti	47	2	He	97.280	1.197	20038	1.42	100	97.3	90	110	
Cu	63	1	No Gas	101.245	0.362	1569218	0.94	100	101.2	90	110	
Se	82	1	No Gas	99.467	4.948	21543	4.46	100	99.5	90	110	

QC ISTD Table

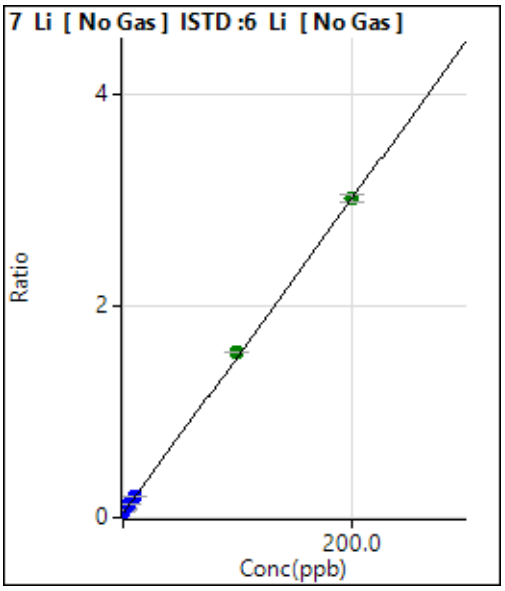
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	802906	1.80	839053	95.69	70	120	
Ge	72	2	He	608575	0.34	589070	103.31	70	120	
Ge	72	1	No Gas	2393098	1.25	2387222	100.25	70	120	
In	115	1	No Gas	2734578	1.33	2718732	100.58	70	120	
Bi	209	1	No Gas	2399485	0.56	2414089	99.40	70	120	

Calibration for 166_ICV.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\083022A.b\
Analysis File: 083022A.batch.bin
DA Date-Time: 08/30/2022 22:08:01
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	159CALB.d	CAL BLK	08/30/2022 19:54:04
2	160CALS.d	2/10/200	08/30/2022 19:56:01
3	161CALS.d	5/25/500	08/30/2022 19:57:59
4	162CALS.d	10/50/100	08/30/2022 19:59:56
5	163CALS.d	100/500/10K	08/30/2022 20:01:54
6	164CALS.d	200/1000/20K	08/30/2022 20:03:46

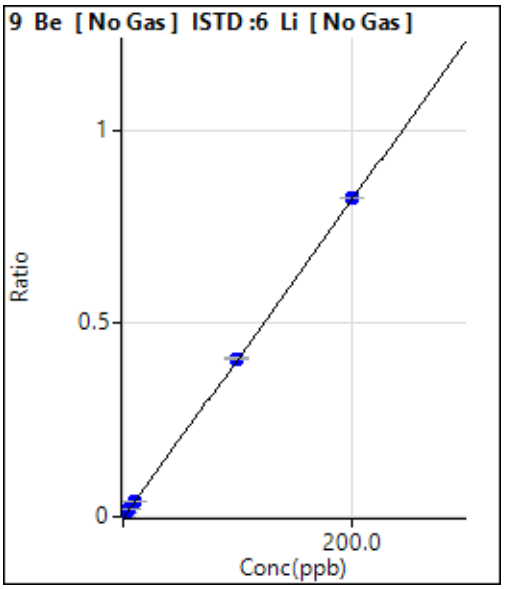
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	44734.13	0.0533	P	3.8	
2	☐	2.000	1.936	68167.57	0.0822	P	1.9	-3.2
3	☐	5.000	4.613	101585.50	0.1221	P	2.6	-7.7
4	☐	10.000	9.505	160402.60	0.1950	P	0.7	-4.9
5	☐	100.000	101.336	1246278.31	1.5638	A	0.4	1.3
6	☐	200.000	199.367	2351360.95	3.0251	A	2.0	-0.3

y = 0.0149 * x + 0.0533
R = 1.0000
DL = 0.4034 ppb
BEC = 3.579 ppb

Weight: <None>
Min Conc: <None>

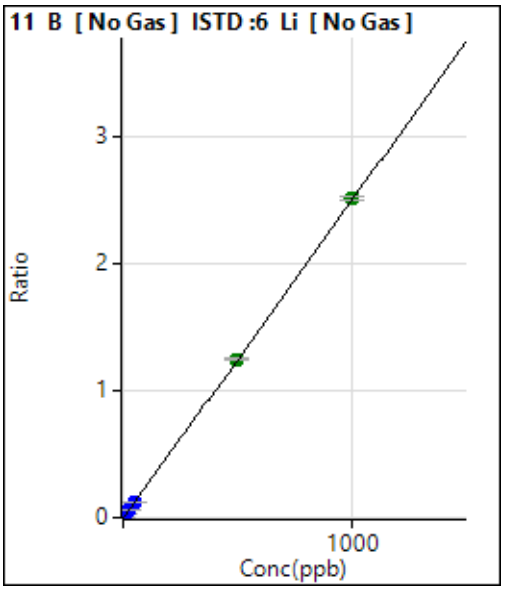


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3.33	0.0000	P	86.6	
2	☐	2.000	1.877	6414.85	0.0077	P	2.9	-6.2
3	☐	5.000	4.714	16156.01	0.0194	P	4.4	-5.7
4	☐	10.000	9.619	32597.74	0.0396	P	1.0	-3.8
5	☐	100.000	99.199	325679.31	0.4087	P	1.2	-0.8
6	☐	200.000	200.428	641686.51	0.8258	P	0.6	0.2

y = 0.0041 * x + 3.9144E-006
R = 1.0000
DL = 0.002468 ppb
BEC = 0.0009501 ppb

Weight: <None>
Min Conc: <None>

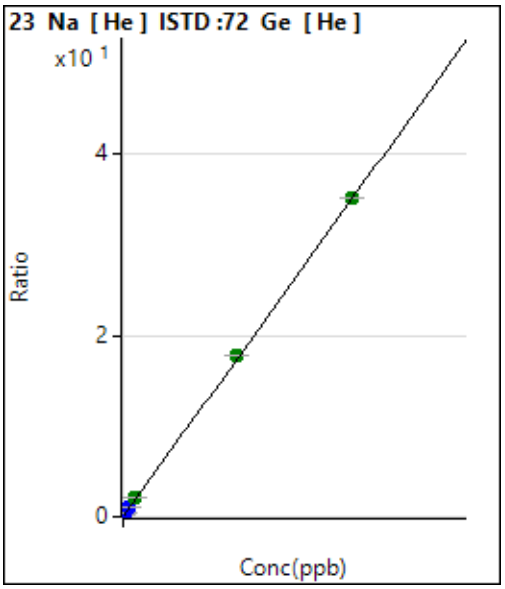
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5409.43	0.0065	P	5.9	
2	☐	10.000	8.809	23678.40	0.0285	P	0.9	-11.9
3	☐	25.000	22.034	51351.89	0.0617	P	3.1	-11.9
4	☐	50.000	45.486	99157.60	0.1206	P	1.0	-9.0
5	☐	500.000	496.044	996823.97	1.2509	A	1.9	-0.8
6	☐	1000.000	1002.290	1958750.03	2.5210	A	1.3	0.2

y = 0.0025 * x + 0.0065
R = 1.0000
DL = 0.4545 ppb
BEC = 2.571 ppb

Weight: <None>
Min Conc: <None>

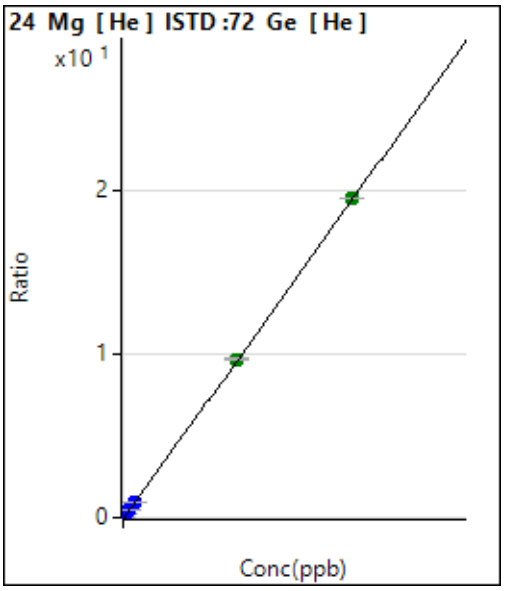


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	108452.89	0.1842	P	2.6	
2	☐	200.000	186.453	304339.66	0.5108	P	0.7	-6.8
3	☐	500.000	468.267	596283.25	1.0045	P	1.0	-6.3
4	☐	1000.000	1052.542	1181585.32	2.0280	A	1.1	5.3
5	☐	10000.00	10035.18	10532995.88	17.7636	A	0.7	0.4
6	☐	20000.00	19980.71	20242920.11	35.1860	A	0.5	-0.1

y = 0.0018 * x + 0.1842
R = 1.0000
DL = 8.133 ppb
BEC = 105.1 ppb

Weight: <None>
Min Conc: <None>

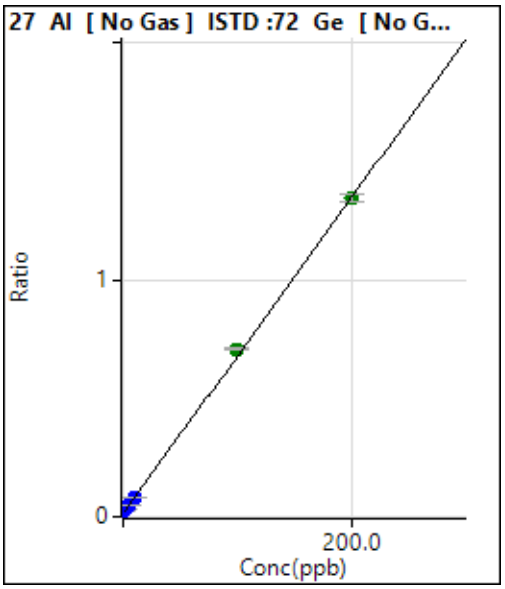
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	360.01	0.0006	P	18.6	
2	☐	200.000	187.564	109131.52	0.1832	P	1.4	-6.2
3	☐	500.000	471.056	272522.93	0.4591	P	0.8	-5.8
4	☐	1000.000	944.338	535842.66	0.9197	P	1.5	-5.6
5	☐	10000.00	9936.769	5734657.62	9.6715	A	0.6	-0.6
6	☐	20000.00	20035.24	11218091.91	19.4998	A	0.5	0.2

y = 9.7324E-004 * x + 6.1211E-004
R = 1.0000
DL = 0.3514 ppb
BEC = 0.6289 ppb

Weight: <None>
Min Conc: <None>

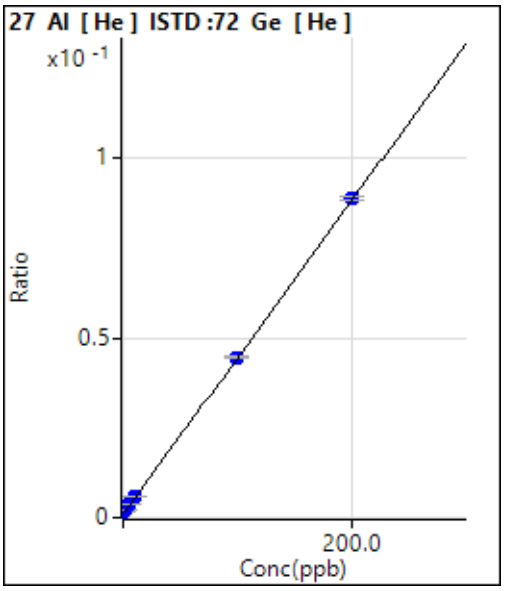


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	48923.29	0.0205	P	0.6	
2	☐	2.000	2.083	82350.16	0.0344	P	2.4	4.1
3	☐	5.000	4.619	122051.87	0.0513	P	1.8	-7.6
4	☐	10.000	9.058	194128.02	0.0809	P	0.9	-9.4
5	☐	100.000	102.871	1651563.41	0.7066	A	0.8	2.9
6	☐	200.000	198.620	3105294.64	1.3451	A	2.0	-0.7

y = 0.0067 * x + 0.0205
R = 0.9998
DL = 0.05845 ppb
BEC = 3.073 ppb

Weight: <None>
Min Conc: <None>

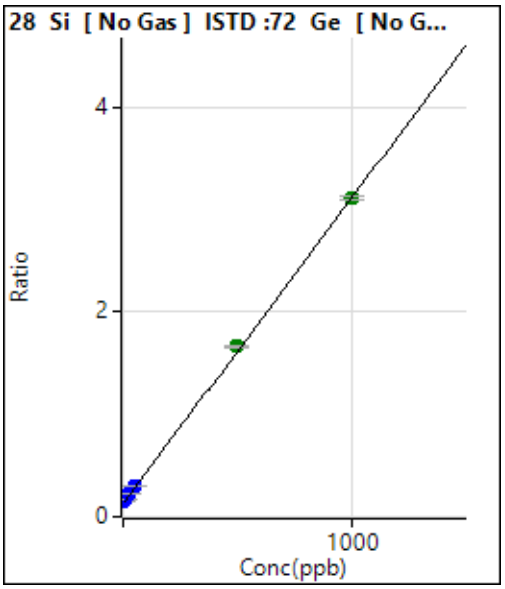
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	803.37	0.0014	P	0.9	
2	☐	2.000	2.027	1340.09	0.0022	P	2.4	1.3
3	☐	5.000	5.079	2126.87	0.0036	P	2.9	1.6
4	☐	10.000	10.227	3397.14	0.0058	P	3.8	2.3
5	☐	100.000	98.956	26442.12	0.0446	P	1.0	-1.0
6	☐	200.000	200.509	51174.25	0.0890	P	1.2	0.3

y = 4.3685E-004 * x + 0.0014
R = 1.0000
DL = 0.08698 ppb
BEC = 3.122 ppb

Weight: <None>
Min Conc: <None>

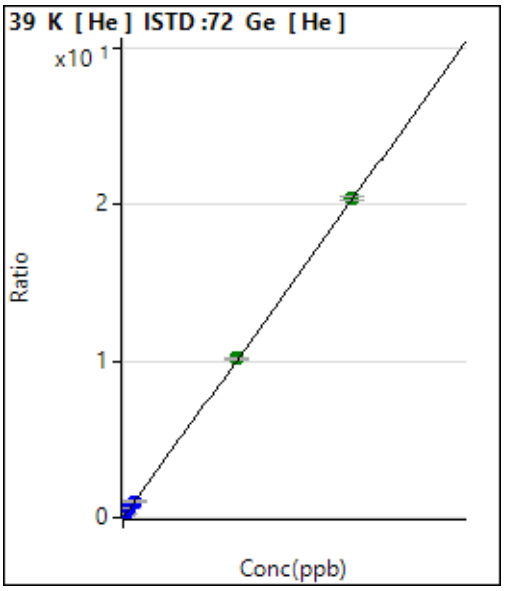


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	344820.27	0.1444	P	0.0	
2	☐	10.000	10.104	418218.77	0.1746	P	0.4	1.0
3	☐	25.000	25.250	522961.01	0.2198	P	2.5	1.0
4	☐	50.000	50.904	711230.07	0.2964	P	1.1	1.8
5	☐	500.000	509.609	3893227.44	1.6656	A	1.0	1.9
6	☐	1000.000	995.143	7190538.64	3.1148	A	1.6	-0.5

y = 0.0030 * x + 0.1444
R = 0.9999
DL = 0.0378 ppb
BEC = 48.39 ppb

Weight: <None>
Min Conc: <None>

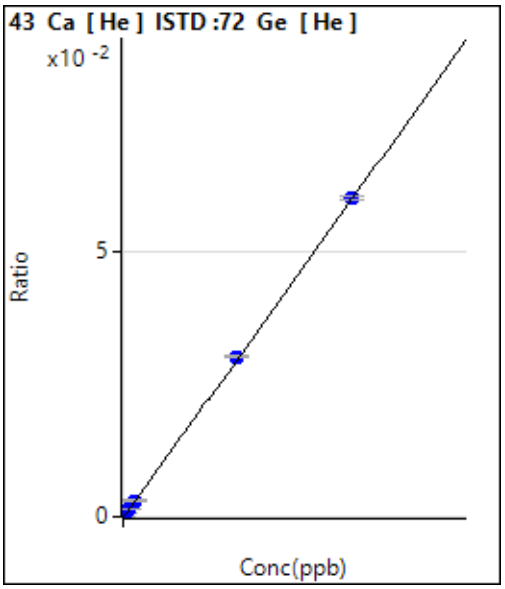
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	54102.79	0.0918	P	0.6	
2	☐	200.000	186.905	167782.79	0.2816	P	0.4	-6.5
3	☐	500.000	466.820	335851.98	0.5658	P	1.1	-6.6
4	☐	1000.000	937.982	608293.79	1.0441	P	0.5	-6.2
5	☐	10000.00	9958.945	6049110.95	10.2019	A	1.1	-0.4
6	☐	20000.00	20024.58	11747968.99	20.4203	A	0.7	0.1

y = 0.0010 * x + 0.0918
R = 1.0000
DL = 1.575 ppb
BEC = 90.48 ppb

Weight: <None>
Min Conc: <None>

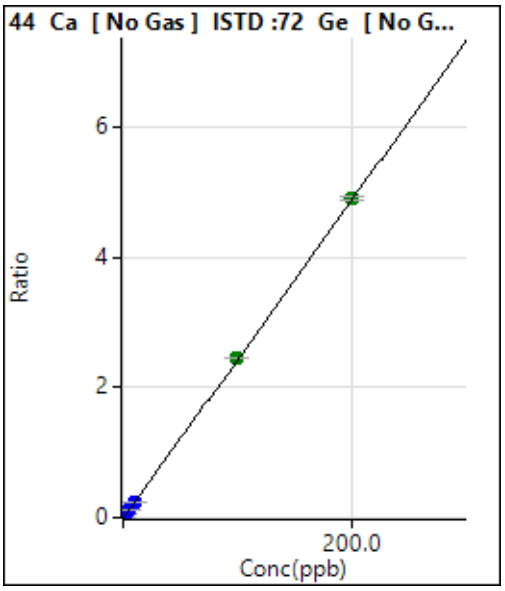


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	23.33	0.0000	P	137.0	
2	☐	200.000	240.360	453.35	0.0008	P	29.4	20.2
3	☐	500.000	456.387	836.71	0.0014	P	4.6	-8.7
4	☐	1000.000	1006.498	1783.48	0.0031	P	2.8	0.6
5	☐	10000.00	10007.79	17841.75	0.0301	P	1.2	0.1
6	☐	20000.00	19996.46	34567.05	0.0601	P	0.8	0.0

y = 3.0028E-006 * x + 3.9189E-005
R = 1.0000
DL = 53.63 ppb
BEC = 13.05 ppb

Weight: <None>
Min Conc: <None>

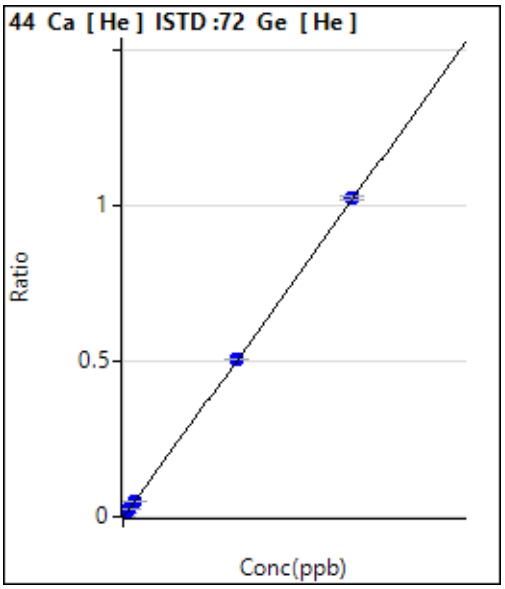
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	24228.26	0.0101	P	0.3	
2	☐	2.000	1.836	131947.75	0.0551	P	1.7	-8.2
3	☐	5.000	4.690	297349.81	0.1250	P	2.9	-6.2
4	☐	10.000	9.305	571033.29	0.2380	P	1.1	-7.0
5	☐	100.000	99.564	5721715.96	2.4479	A	0.5	-0.4
6	☐	200.000	200.262	11342811.91	4.9134	A	1.2	0.1

y = 0.0245 * x + 0.0101
R = 1.0000
DL = 0.004158 ppb
BEC = 0.4145 ppb

Weight: <None>
Min Conc: <None>

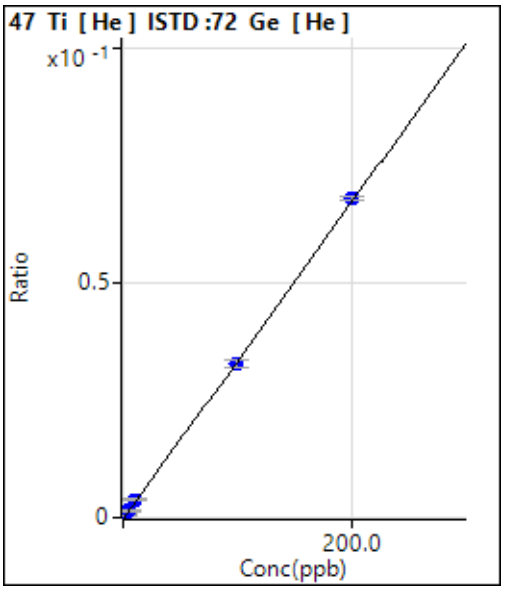


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	466.68	0.0008	P	7.7	
2	☐	200.000	198.706	6511.64	0.0109	P	5.2	-0.6
3	☐	500.000	496.115	15495.64	0.0261	P	5.2	-0.8
4	☐	1000.000	978.629	29545.24	0.0507	P	1.4	-2.1
5	☐	10000.00	9895.854	299774.84	0.5056	P	0.6	-1.0
6	☐	20000.00	20053.25	588899.90	1.0237	P	1.0	0.3

y = 5.1008E-005 * x + 7.9188E-004
R = 1.0000
DL = 3.575 ppb
BEC = 15.52 ppb

Weight: <None>
Min Conc: <None>

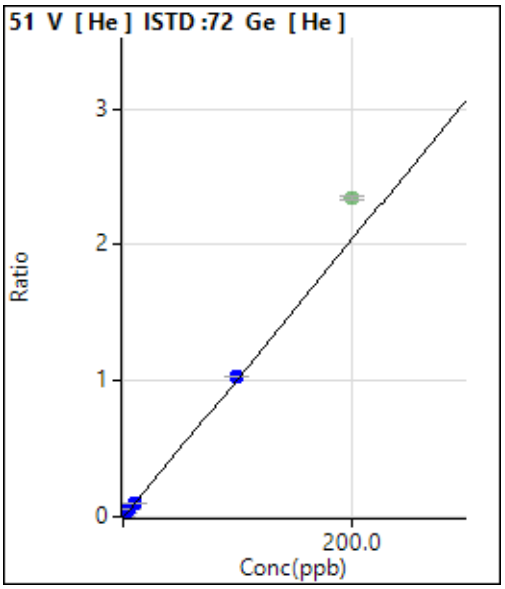
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	0.00	0.0000	P		
2	☐	2.000	1.834	370.01	0.0006	P	28.1	-8.3
3	☐	5.000	4.444	893.38	0.0015	P	14.8	-11.1
4	☐	10.000	11.051	2180.22	0.0037	P	9.3	10.5
5	☐	100.000	97.105	19487.49	0.0329	P	4.3	-2.9
6	☐	200.000	201.410	39219.69	0.0682	P	1.5	0.7

y = 3.3847E-004 * x + 0.0000E+000
R = 0.9998
DL = 0 ppb
BEC = 0 ppb

Weight: <None>
Min Conc: <None>

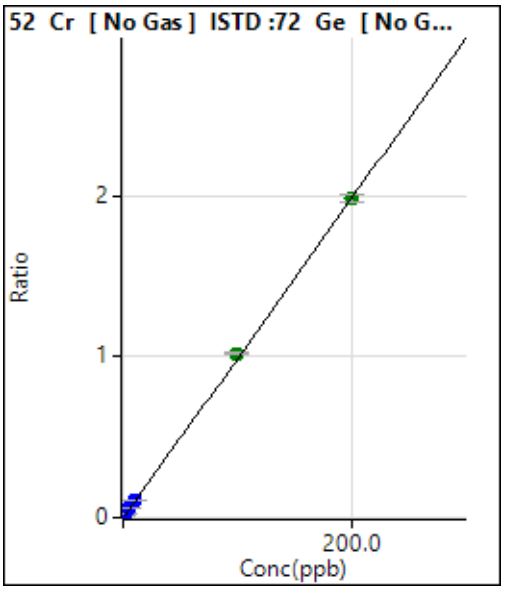


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2444.68	0.0041	P	2.1	
2	☐	2.000	1.962	14432.09	0.0242	P	1.1	-1.9
3	☐	5.000	4.979	32704.50	0.0551	P	2.2	-0.4
4	☐	10.000	9.917	61531.74	0.1056	P	0.7	-0.8
5	☐	100.000	100.010	609185.20	1.0274	P	0.1	0.0
6	☑	200.000		1349762.06	2.3463	A	1.1	

y = 0.0102 * x + 0.0041
R = 1.0000
DL = 0.02563 ppb
BEC = 0.4056 ppb

Weight: <None>
Min Conc: <None>

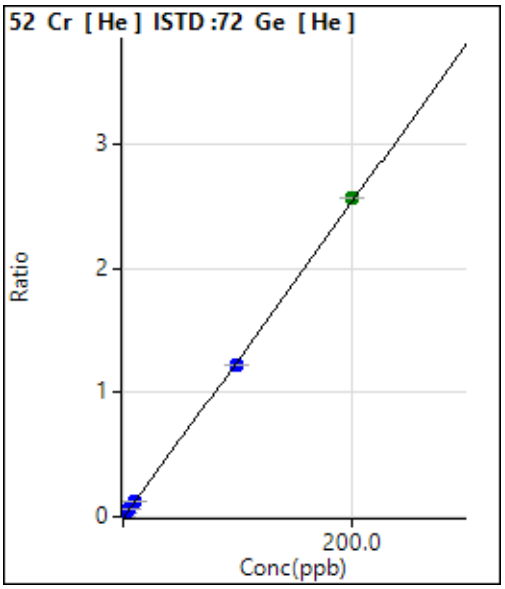
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16063.01	0.0067	P	3.0	
2	☐	2.000	1.878	60875.61	0.0254	P	1.6	-6.1
3	☐	5.000	4.848	130783.86	0.0550	P	2.0	-3.0
4	☐	10.000	9.653	246629.83	0.1028	P	1.3	-3.5
5	☐	100.000	102.044	2389178.30	1.0221	A	1.2	2.0
6	☐	200.000	199.000	4586259.83	1.9868	A	2.2	-0.5

y = 0.0100 * x + 0.0067
R = 0.9999
DL = 0.06061 ppb
BEC = 0.6763 ppb

Weight: <None>
Min Conc: <None>

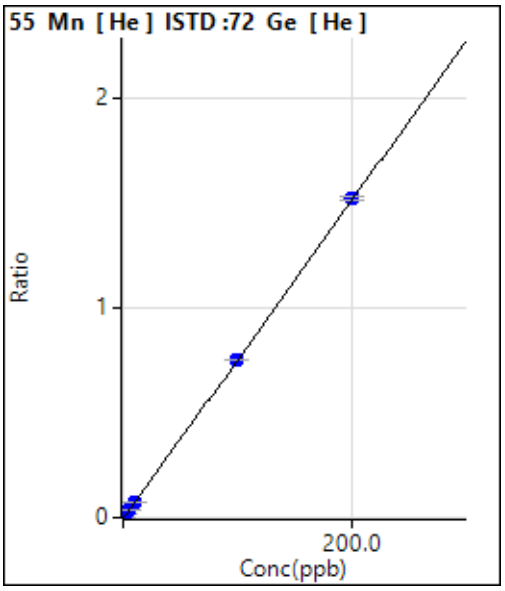


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	553.36	0.0009	P	18.9	
2	☐	2.000	1.881	14798.25	0.0248	P	3.2	-5.9
3	☐	5.000	4.861	37217.66	0.0627	P	1.7	-2.8
4	☐	10.000	9.637	71874.76	0.1234	P	0.9	-3.6
5	☐	100.000	96.153	724829.42	1.2224	P	0.8	-3.8
6	☐	200.000	201.946	1476443.88	2.5664	A	0.6	1.0

y = 0.0127 * x + 9.4085E-004
R = 0.9997
DL = 0.04196 ppb
BEC = 0.07406 ppb

Weight: <None>
Min Conc: <None>

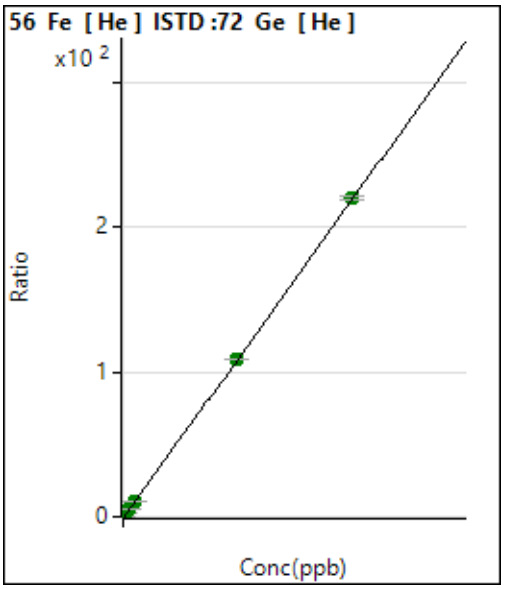
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	486.69	0.0008	P	3.8	
2	☐	2.000	2.012	9593.52	0.0161	P	4.6	0.6
3	☐	5.000	5.045	23223.36	0.0391	P	0.6	0.9
4	☐	10.000	9.991	44670.12	0.0767	P	1.5	-0.1
5	☐	100.000	99.199	446985.03	0.7538	P	0.6	-0.8
6	☐	200.000	200.400	875604.70	1.5220	P	0.6	0.2

y = 0.0076 * x + 8.2602E-004
R = 1.0000
DL = 0.01241 ppb
BEC = 0.1088 ppb

Weight: <None>
Min Conc: <None>

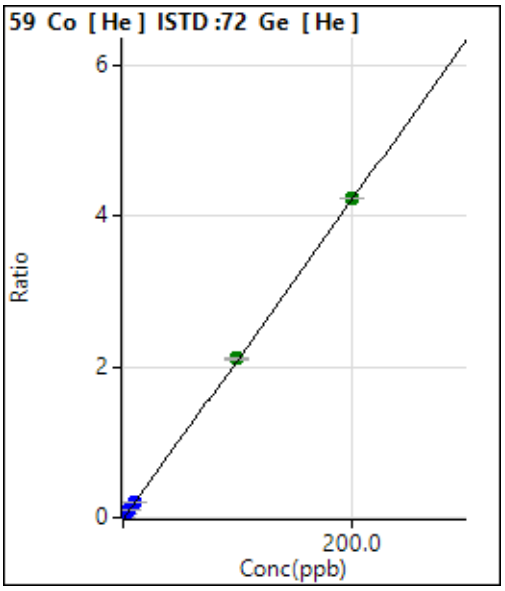


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10944.57	0.0186	P	4.5	
2	☐	200.000	208.562	1376864.62	2.3108	A	1.0	4.3
3	☐	500.000	517.243	3385763.70	5.7034	A	1.0	3.4
4	☐	1000.000	1010.221	6479882.61	11.1216	A	0.8	1.0
5	☐	10000.00	9914.782	64625389.04	108.988	A	0.2	-0.9
6	☐	20000.00	20041.58	126732951.4	220.288	A	0.6	0.2

y = 0.0110 * x + 0.0186
R = 1.0000
DL = 0.2263 ppb
BEC = 1.691 ppb

Weight: <None>
Min Conc: <None>

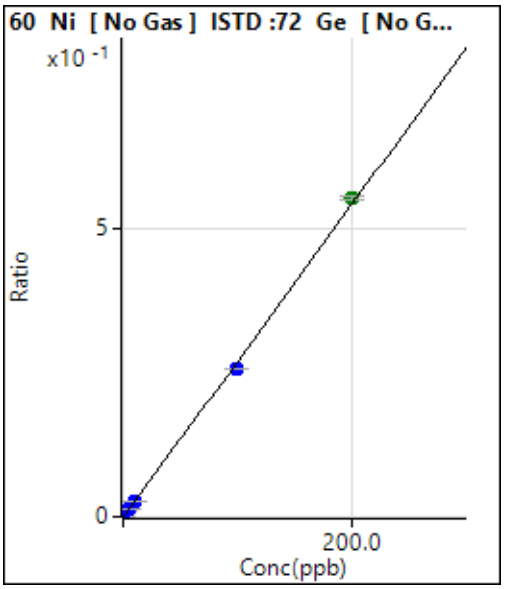
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	30.00	0.0001	P	88.5	
2	☐	2.000	1.856	23447.11	0.0393	P	2.4	-7.2
3	☐	5.000	4.738	59580.16	0.1004	P	0.9	-5.2
4	☐	10.000	9.419	116215.14	0.1995	P	0.4	-5.8
5	☐	100.000	99.750	1252211.02	2.1118	A	0.6	-0.3
6	☐	200.000	200.162	2437931.00	4.2376	A	0.2	0.1

y = 0.0212 * x + 5.0915E-005
R = 1.0000
DL = 0.006386 ppb
BEC = 0.002405 ppb

Weight: <None>
Min Conc: <None>

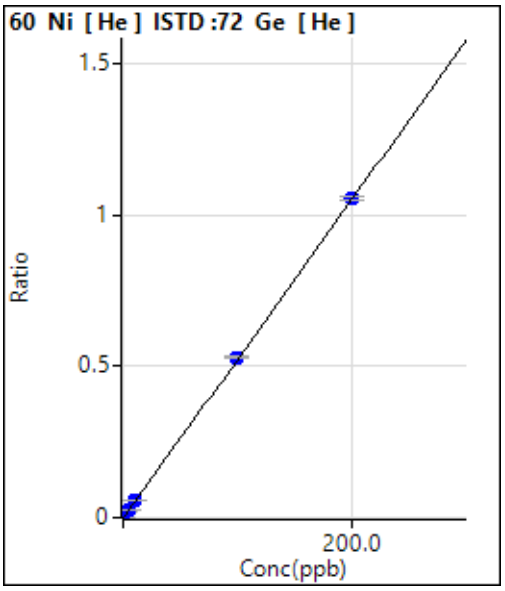


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3600.54	0.0015	P	3.6	
2	☐	2.000	2.758	21547.33	0.0090	P	4.5	37.9
3	☐	5.000	4.220	30851.93	0.0130	P	3.0	-15.6
4	☐	10.000	8.797	60950.05	0.0254	P	2.4	-12.0
5	☐	100.000	93.677	598046.52	0.2559	P	0.4	-6.3
6	☐	200.000	203.234	1277280.06	0.5534	A	1.5	1.6

y = 0.0027 * x + 0.0015
R = 0.9993
DL = 0.05952 ppb
BEC = 0.5554 ppb

Weight: <None>
Min Conc: <None>

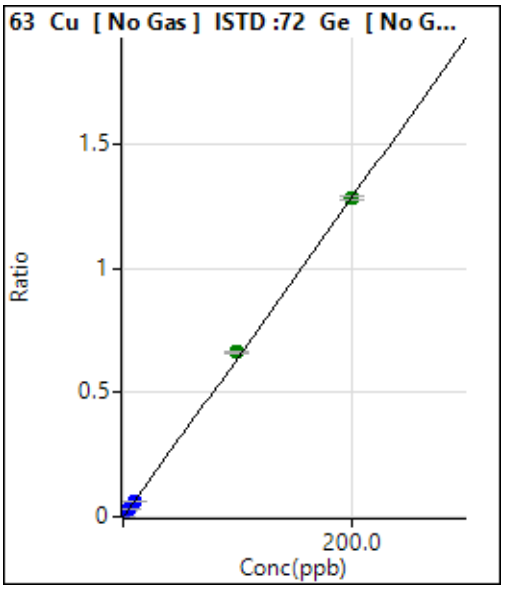
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1743.48	0.0030	P	4.0	
2	☐	2.000	3.013	11221.43	0.0188	P	2.1	50.7
3	☐	5.000	4.665	16343.38	0.0275	P	2.1	-6.7
4	☐	10.000	9.835	31907.71	0.0548	P	1.5	-1.6
5	☐	100.000	100.159	314556.55	0.5305	P	0.7	0.2
6	☐	200.000	199.927	607506.88	1.0560	P	0.7	0.0

y = 0.0053 * x + 0.0030
R = 1.0000
DL = 0.06674 ppb
BEC = 0.5621 ppb

Weight: <None>
Min Conc: <None>

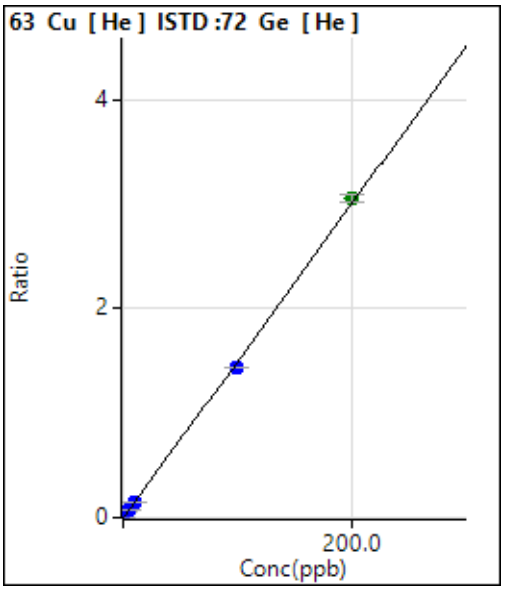


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8769.66	0.0037	P	4.1	
2	☑	2.000		60220.14	0.0251	P	0.6	
3	☐	5.000	4.336	75187.54	0.0316	P	1.2	-13.3
4	☐	10.000	9.171	150549.70	0.0627	P	1.4	-8.3
5	☐	100.000	102.246	1547692.42	0.6622	A	0.3	2.2
6	☐	200.000	198.935	2966152.87	1.2848	A	1.4	-0.5

y = 0.0064 * x + 0.0037
R = 0.9999
DL = 0.07045 ppb
BEC = 0.5704 ppb

Weight: <None>
Min Conc: <None>

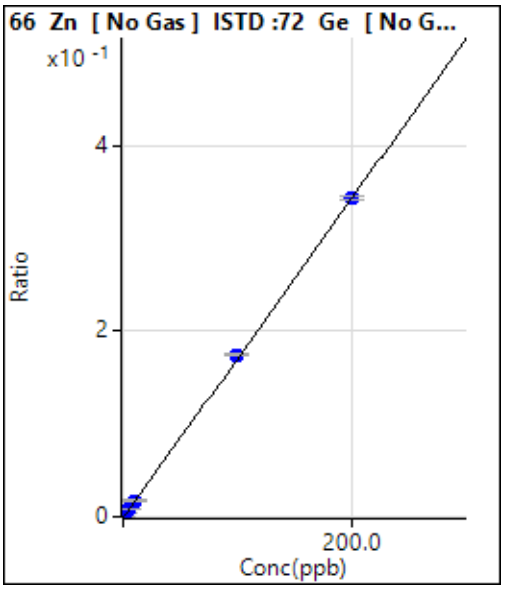
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5214.42	0.0089	P	2.6	
2	☑	2.000		35466.50	0.0595	P	0.5	
3	☐	5.000	4.332	43917.80	0.0740	P	2.0	-13.4
4	☐	10.000	9.201	85762.87	0.1472	P	1.0	-8.0
5	☐	100.000	95.049	852618.79	1.4379	P	0.8	-5.0
6	☐	200.000	202.532	1756948.72	3.0540	A	1.8	1.3

y = 0.0150 * x + 0.0089
R = 0.9996
DL = 0.04662 ppb
BEC = 0.5887 ppb

Weight: <None>
Min Conc: <None>

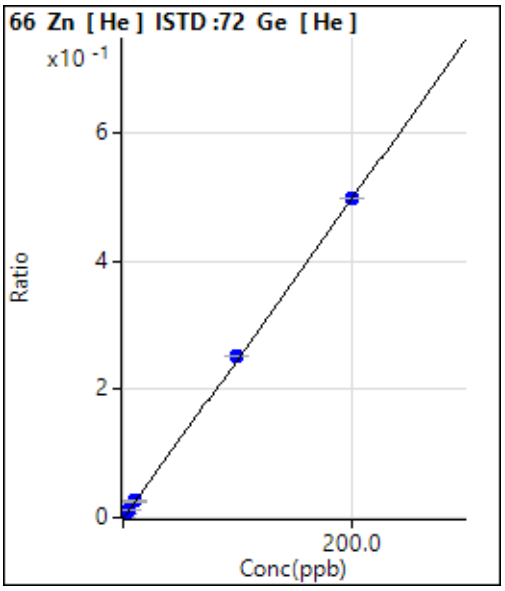


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	950.05	0.0004	P	15.7	
2	☐	2.000	2.008	9229.97	0.0039	P	3.5	0.4
3	☐	5.000	4.987	21367.09	0.0090	P	1.6	-0.3
4	☐	10.000	9.962	42092.17	0.0175	P	2.7	-0.4
5	☐	100.000	101.308	408398.39	0.1747	P	0.5	1.3
6	☐	200.000	199.348	792756.05	0.3434	P	0.9	-0.3

y = 0.0017 * x + 3.9805E-004
R = 1.0000
DL = 0.1092 ppb
BEC = 0.2313 ppb

Weight: <None>
Min Conc: <None>

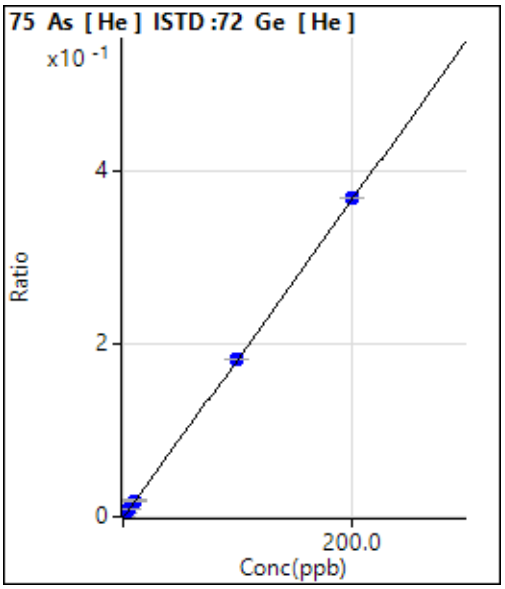
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	333.34	0.0006	P	7.3	
2	☐	2.000	2.207	3613.89	0.0061	P	9.1	10.3
3	☐	5.000	5.011	7749.03	0.0131	P	3.1	0.2
4	☐	10.000	10.177	15108.66	0.0259	P	5.6	1.8
5	☐	100.000	100.785	149277.52	0.2518	P	0.5	0.8
6	☐	200.000	199.596	286523.72	0.4980	P	0.6	-0.2

y = 0.0025 * x + 5.6621E-004
R = 1.0000
DL = 0.05005 ppb
BEC = 0.2272 ppb

Weight: <None>
Min Conc: <None>

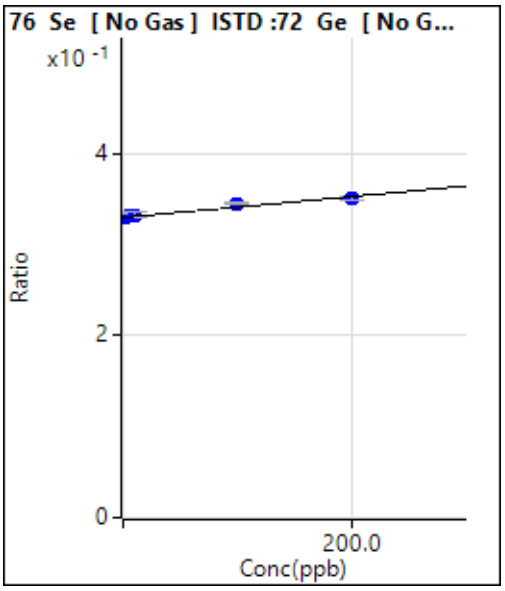


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	127.78	0.0002	P	15.6	
2	☐	2.000	1.889	2202.41	0.0037	P	4.2	-5.5
3	☐	5.000	4.863	5445.57	0.0092	P	1.8	-2.7
4	☐	10.000	10.097	10960.07	0.0188	P	2.4	1.0
5	☐	100.000	99.021	108260.14	0.1826	P	0.6	-1.0
6	☐	200.000	200.489	212541.27	0.3695	P	0.6	0.2

y = 0.0018 * x + 2.1722E-004
R = 1.0000
DL = 0.05508 ppb
BEC = 0.1179 ppb

Weight: <None>
Min Conc: <None>

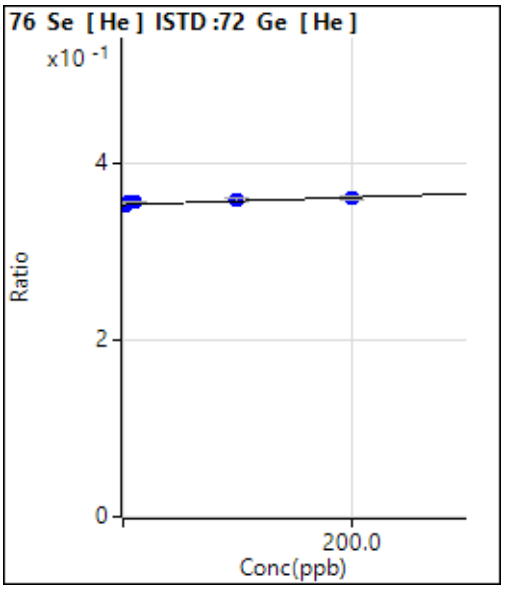
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	786631.68	0.3295	P	0.4	
2	☐	2.000	-1.533	788855.51	0.3293	P	0.4	-176.6
3	☐	5.000	17.130	788802.12	0.3315	P	1.1	242.6
4	☐	10.000	22.093	796793.92	0.3321	P	2.0	120.9
5	☐	100.000	133.778	806499.10	0.3450	P	0.6	33.8
6	☐	200.000	182.238	809446.50	0.3507	P	1.2	-8.9

y = 1.1608E-004 * x + 0.3295
R = 0.9768
DL = 37.15 ppb
BEC = 2839 ppb

Weight: <None>
Min Conc: <None>

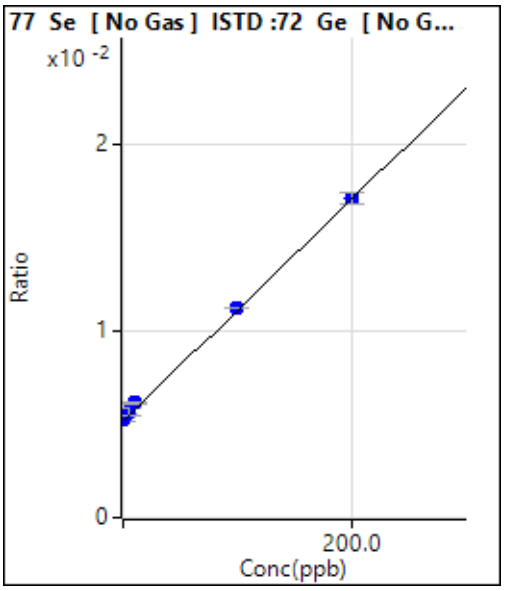


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	208438.16	0.3538	P	0.1	
2	☐	2.000	-20.979	210310.70	0.3530	P	0.5	-1148.
3	☐	5.000	66.332	211719.48	0.3566	P	0.6	1226.6
4	☐	10.000	54.611	207510.89	0.3561	P	0.7	446.1
5	☐	100.000	127.284	212990.97	0.3592	P	1.0	27.3
6	☐	200.000	182.824	207994.86	0.3616	P	1.0	-8.6

y = 4.2160E-005 * x + 0.3538
R = 0.9083
DL = 23.55 ppb
BEC = 8393 ppb

Weight: <None>
Min Conc: <None>

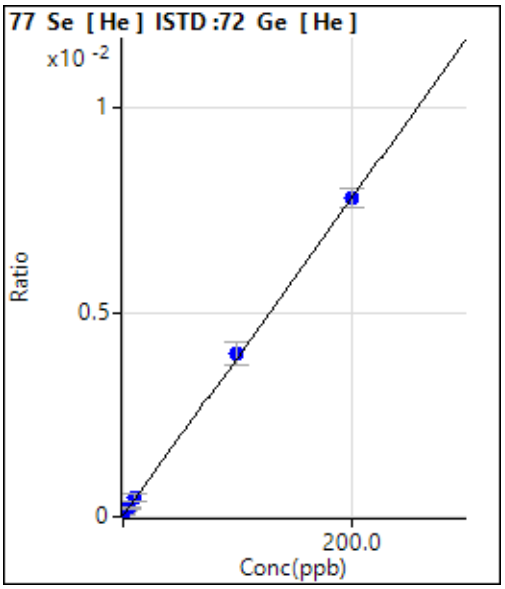
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12579.40	0.0053	P	4.9	
2	☐	2.000	3.561	13126.55	0.0055	P	1.5	78.1
3	☐	5.000	6.939	13517.06	0.0057	P	6.2	38.8
4	☐	10.000	14.555	14711.61	0.0061	P	1.9	45.6
5	☐	100.000	100.508	26229.22	0.0112	P	0.8	0.5
6	☐	200.000	199.454	39434.82	0.0171	P	4.1	-0.3

y = 5.9237E-005 * x + 0.0053
R = 0.9998
DL = 13.04 ppb
BEC = 88.94 ppb

Weight: <None>
Min Conc: <None>

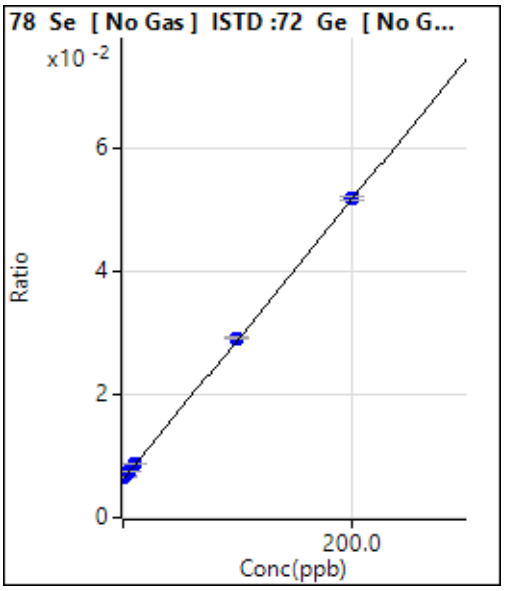


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	36.67	0.0001	P	31.7	
2	☐	2.000	2.717	100.00	0.0002	P	36.3	35.9
3	☐	5.000	4.024	130.00	0.0002	P	33.0	-19.5
4	☐	10.000	10.594	276.67	0.0005	P	31.7	5.9
5	☐	100.000	101.593	2380.26	0.0040	P	13.8	1.6
6	☐	200.000	199.191	4490.84	0.0078	P	6.6	-0.4

y = 3.8886E-005 * x + 6.2278E-005
R = 0.9999
DL = 1.524 ppb
BEC = 1.602 ppb

Weight: <None>
Min Conc: <None>

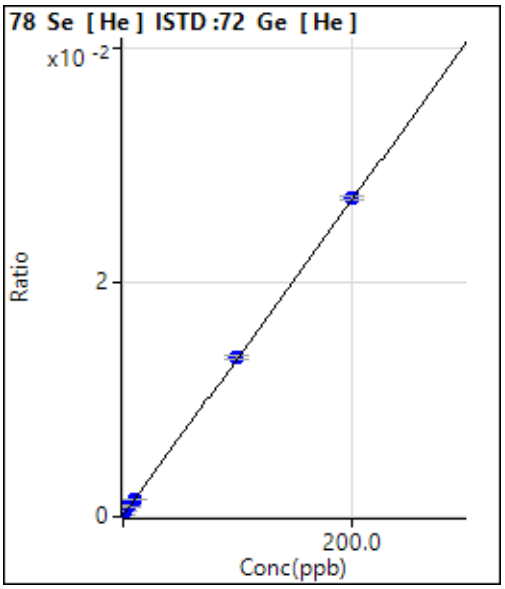
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	15459.12	0.0065	P	1.4	
2	☐	2.000	1.701	16436.98	0.0069	P	4.2	-14.9
3	☐	5.000	4.754	17982.25	0.0076	P	2.7	-4.9
4	☐	10.000	10.272	21150.21	0.0088	P	2.3	2.7
5	☐	100.000	100.090	68403.47	0.0293	P	0.6	0.1
6	☐	200.000	199.951	120044.74	0.0520	P	1.7	0.0

y = 2.2768E-004 * x + 0.0065
R = 1.0000
DL = 1.205 ppb
BEC = 28.44 ppb

Weight: <None>
Min Conc: <None>

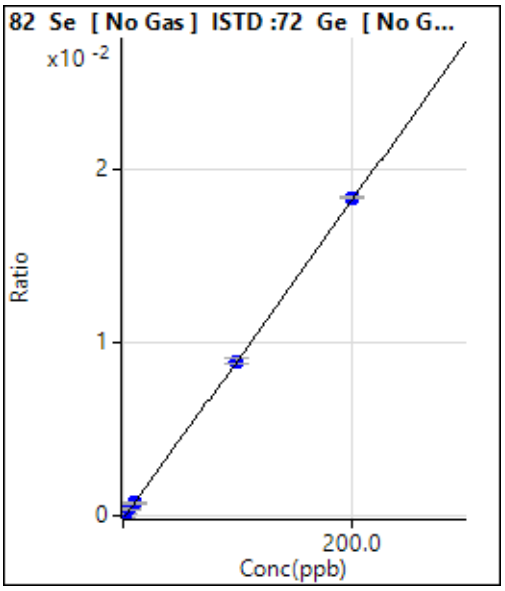


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	132.67	0.0002	P	10.5	
2	☐	2.000	1.806	279.33	0.0005	P	8.0	-9.7
3	☐	5.000	5.037	536.68	0.0009	P	6.4	0.7
4	☐	10.000	9.377	867.36	0.0015	P	6.2	-6.2
5	☐	100.000	99.009	8045.09	0.0136	P	2.7	-1.0
6	☐	200.000	200.528	15675.11	0.0272	P	1.0	0.3

y = 1.3476E-004 * x + 2.2542E-004
R = 1.0000
DL = 0.5278 ppb
BEC = 1.673 ppb

Weight: <None>
Min Conc: <None>

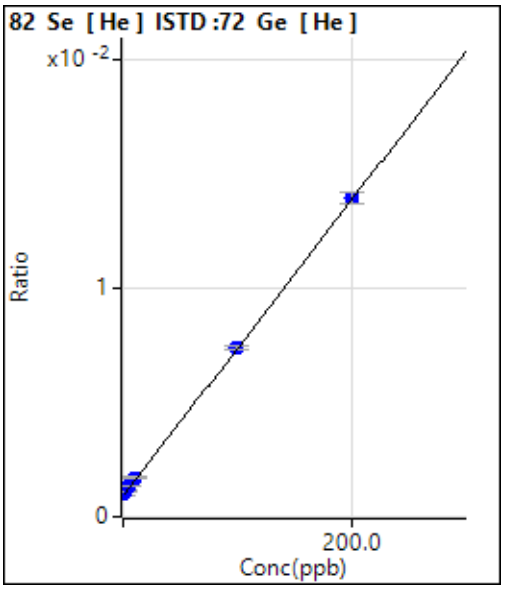
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-339.17	-0.0001	P	-31.1	
2	☐	2.000	1.971	93.73	0.0000	P	26.7	-1.5
3	☐	5.000	5.517	868.79	0.0004	P	14.5	10.3
4	☐	10.000	9.368	1723.94	0.0007	P	18.4	-6.3
5	☐	100.000	97.899	20711.26	0.0089	P	3.7	-2.1
6	☐	200.000	201.069	42358.86	0.0183	P	1.1	0.5

y = 9.1953E-005 * x - 1.4207E-004
R = 0.9999
DL = 1.44 ppb
BEC = -1.545 ppb

Weight: <None>
Min Conc: <None>

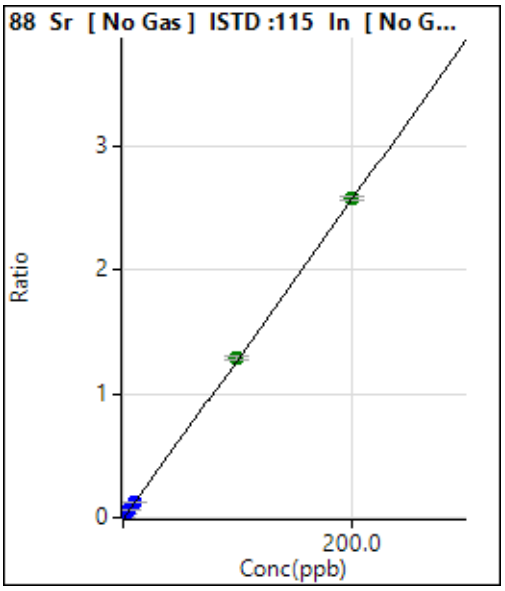


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	576.69	0.0010	P	16.6	
2	☐	2.000	2.265	670.03	0.0011	P	9.2	13.2
3	☐	5.000	5.624	796.71	0.0013	P	4.6	12.5
4	☐	10.000	11.331	996.73	0.0017	P	7.3	13.3
5	☐	100.000	99.208	4387.46	0.0074	P	2.5	-0.8
6	☐	200.000	200.311	8022.53	0.0139	P	3.1	0.2

y = 6.4724E-005 * x + 9.7783E-004
R = 1.0000
DL = 7.511 ppb
BEC = 15.11 ppb

Weight: <None>
Min Conc: <None>

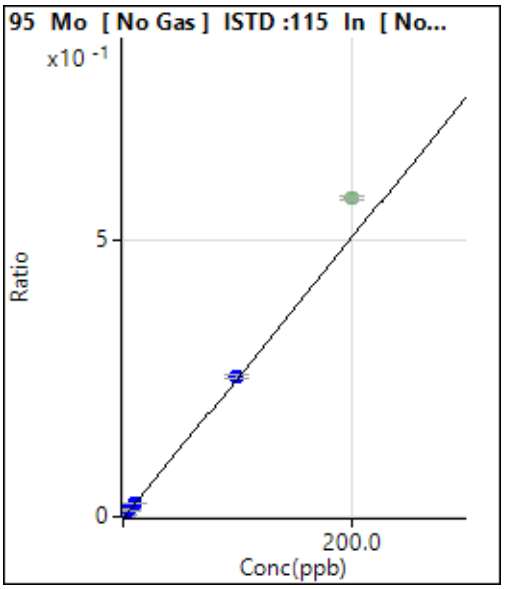
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1980.19	0.0007	P	8.3	
2	☐	2.000	1.888	68726.30	0.0251	P	0.4	-5.6
3	☐	5.000	4.626	166624.37	0.0604	P	0.9	-7.5
4	☐	10.000	9.507	335660.87	0.1235	P	1.1	-4.9
5	☐	100.000	100.035	3447825.36	1.2921	A	1.5	0.0
6	☐	200.000	200.018	6683341.57	2.5828	A	1.7	0.0

y = 0.0129 * x + 7.2876E-004
R = 1.0000
DL = 0.0141 ppb
BEC = 0.05645 ppb

Weight: <None>
Min Conc: <None>

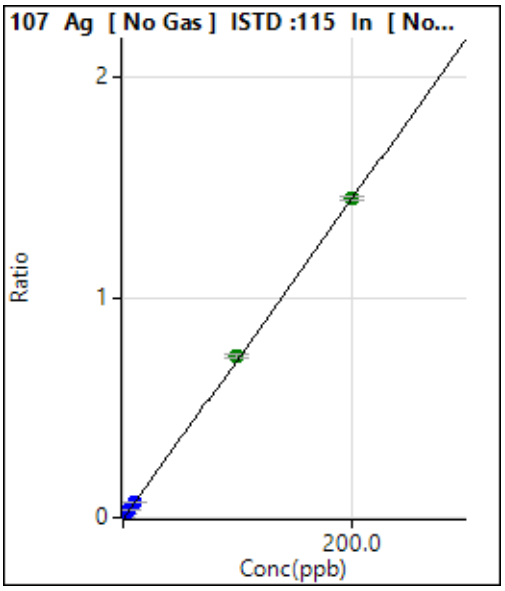


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	46.67	0.0000	P	66.8	
2	☐	2.000	1.928	13440.36	0.0049	P	3.0	-3.6
3	☐	5.000	4.829	33826.58	0.0123	P	3.7	-3.4
4	☐	10.000	9.590	66214.34	0.0244	P	1.7	-4.1
5	☐	100.000	100.051	677565.04	0.2539	P	2.0	0.1
6	☑	200.000		1492615.03	0.5768	A	1.2	

y = 0.0025 * x + 1.7278E-005
R = 1.0000
DL = 0.01364 ppb
BEC = 0.006808 ppb

Weight: <None>
Min Conc: <None>

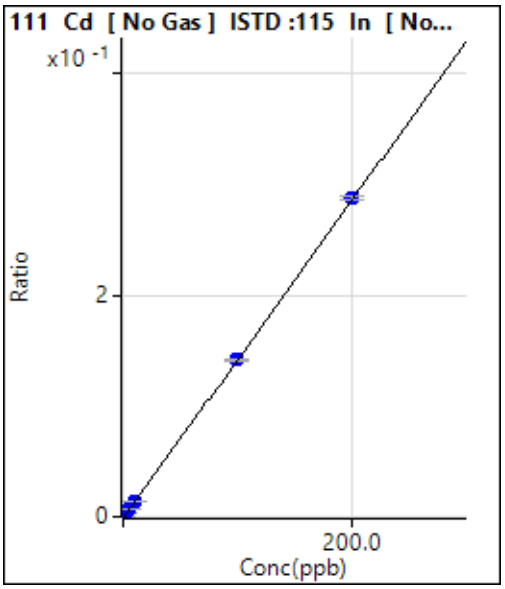
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	660.03	0.0002	P	10.4	
2	☐	2.000	1.867	37827.84	0.0138	P	1.5	-6.7
3	☐	5.000	4.611	93106.71	0.0338	P	1.1	-7.8
4	☐	10.000	9.381	186166.49	0.0685	P	0.5	-6.2
5	☐	100.000	100.873	1958163.72	0.7338	A	1.6	0.9
6	☐	200.000	199.606	3757107.96	1.4519	A	1.4	-0.2

y = 0.0073 * x + 2.4299E-004
R = 1.0000
DL = 0.01044 ppb
BEC = 0.03341 ppb

Weight: <None>
Min Conc: <None>

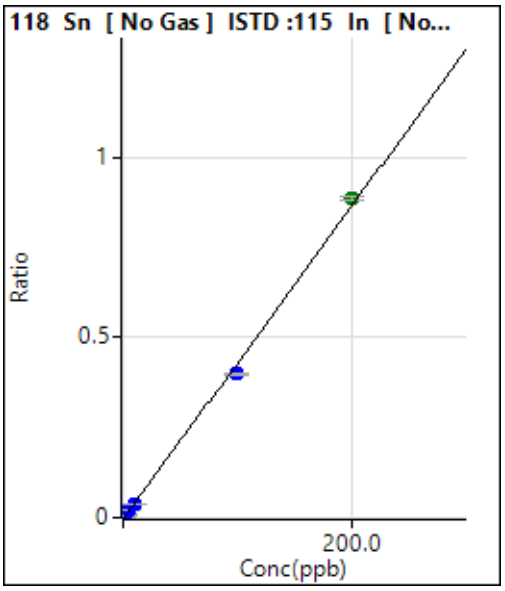


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10.00	0.0000	P	1.5	
2	☐	2.000	1.888	7418.87	0.0027	P	4.8	-5.6
3	☐	5.000	4.800	18987.30	0.0069	P	2.3	-4.0
4	☐	10.000	9.794	38199.00	0.0141	P	2.4	-2.1
5	☐	100.000	98.604	377370.21	0.1414	P	0.6	-1.4
6	☐	200.000	200.714	744876.13	0.2879	P	0.7	0.4

y = 0.0014 * x + 3.6787E-006
R = 1.0000
DL = 0.0001133 ppb
BEC = 0.002565 ppb

Weight: <None>
Min Conc: <None>

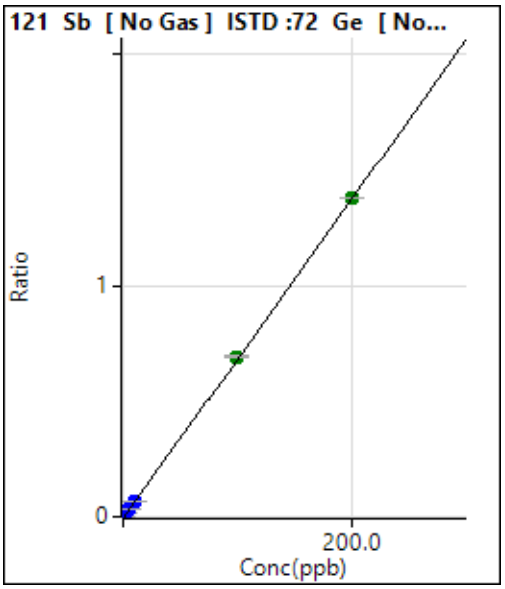
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	656.69	0.0002	P	13.0	
2	☐	2.000	1.790	21968.61	0.0080	P	1.1	-10.5
3	☐	5.000	4.453	54037.82	0.0196	P	1.4	-10.9
4	☐	10.000	9.072	107907.37	0.0397	P	0.3	-9.3
5	☐	100.000	92.084	1069081.76	0.4006	P	1.4	-7.9
6	☐	200.000	204.020	2296310.80	0.8874	A	1.6	2.0

y = 0.0043 * x + 2.4128E-004
R = 0.9989
DL = 0.02163 ppb
BEC = 0.05549 ppb

Weight: <None>
Min Conc: <None>

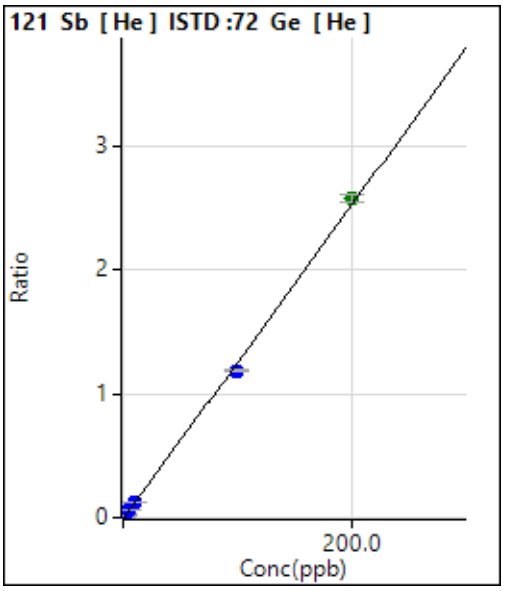


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	383.35	0.0002	P	19.3	
2	☐	2.000	1.819	30435.85	0.0127	P	0.9	-9.1
3	☐	5.000	4.655	76764.01	0.0323	P	3.8	-6.9
4	☐	10.000	9.264	153735.87	0.0641	P	1.5	-7.4
5	☐	100.000	100.390	1618973.41	0.6927	A	1.6	0.4
6	☐	200.000	199.852	3182845.47	1.3788	A	0.5	-0.1

y = 0.0069 * x + 1.6053E-004
R = 1.0000
DL = 0.01348 ppb
BEC = 0.02327 ppb

Weight: <None>
Min Conc: <None>

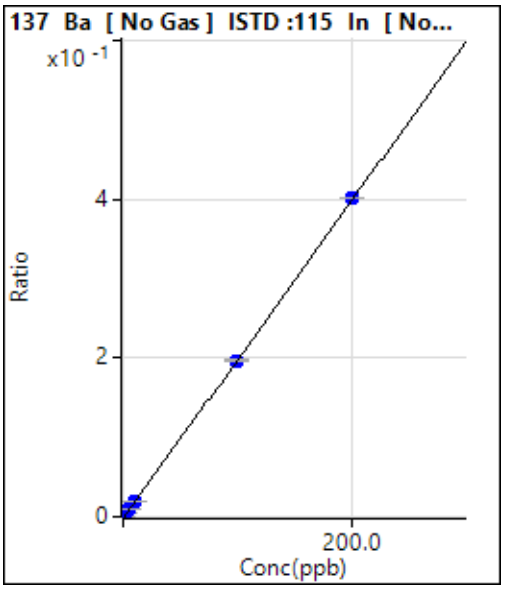
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	180.01	0.0003	P	28.8	
2	☐	2.000	1.845	14147.91	0.0237	P	4.2	-7.7
3	☐	5.000	4.613	34963.46	0.0589	P	0.7	-7.7
4	☐	10.000	9.390	69668.08	0.1196	P	1.2	-6.1
5	☐	100.000	93.401	703652.49	1.1867	P	0.8	-6.6
6	☐	200.000	203.341	1485987.63	2.5832	A	2.1	1.7

y = 0.0127 * x + 3.0508E-004
R = 0.9993
DL = 0.02075 ppb
BEC = 0.02402 ppb

Weight: <None>
Min Conc: <None>

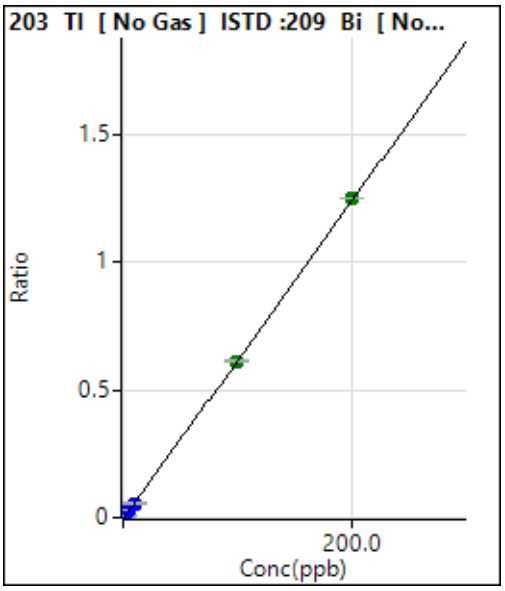


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	236.67	0.0001	P	24.5	
2	☐	2.000	1.908	10687.88	0.0039	P	1.7	-4.6
3	☐	5.000	4.740	26387.13	0.0096	P	2.3	-5.2
4	☐	10.000	9.767	53373.15	0.0196	P	1.6	-2.3
5	☐	100.000	98.533	526380.49	0.1973	P	0.6	-1.5
6	☐	200.000	200.753	1039729.31	0.4018	P	0.5	0.4

y = 0.0020 * x + 8.6845E-005
R = 1.0000
DL = 0.03193 ppb
BEC = 0.0434 ppb

Weight: <None>
Min Conc: <None>

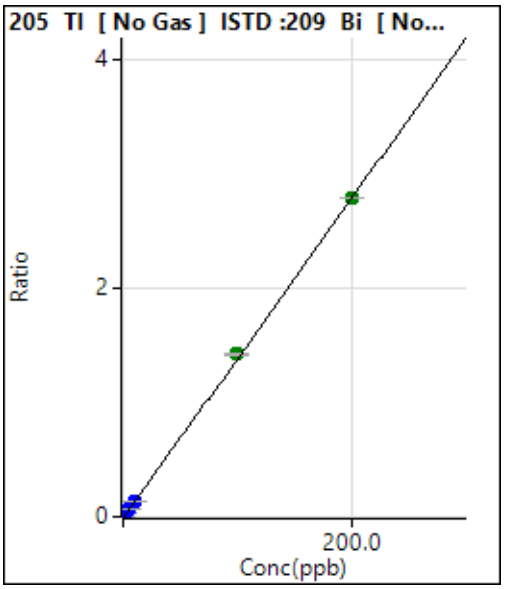
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	40.00	0.0000	P	51.3	
2	☐	2.000	1.758	26612.02	0.0109	P	3.0	-12.1
3	☐	5.000	4.381	67461.87	0.0272	P	1.1	-12.4
4	☐	10.000	9.063	138606.93	0.0564	P	2.6	-9.4
5	☐	100.000	98.375	1446057.06	0.6116	A	1.0	-1.6
6	☐	200.000	200.877	2883971.94	1.2488	A	0.6	0.4

y = 0.0062 * x + 1.6640E-005
R = 1.0000
DL = 0.004123 ppb
BEC = 0.002677 ppb

Weight: <None>
Min Conc: <None>

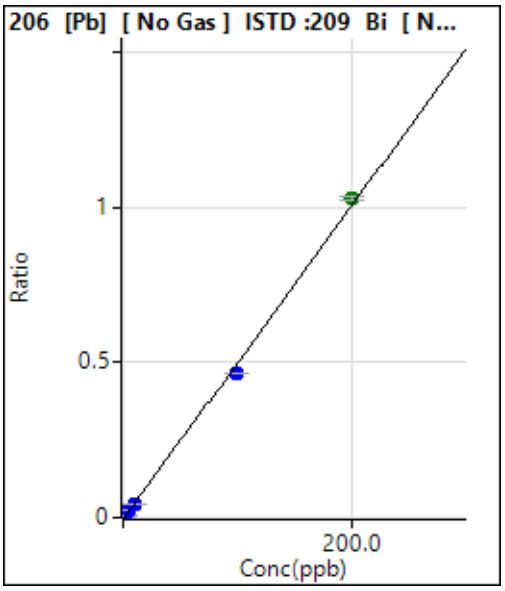


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	63.33	0.0000	P	54.4	
2	☐	2.000	1.865	63699.04	0.0262	P	1.9	-6.7
3	☐	5.000	4.647	161475.22	0.0652	P	1.6	-7.1
4	☐	10.000	9.387	324004.72	0.1317	P	1.2	-6.1
5	☐	100.000	101.634	3371844.01	1.4261	A	1.3	1.6
6	☐	200.000	199.224	6455167.82	2.7954	A	0.5	-0.4

y = 0.0140 * x + 2.6096E-005
R = 0.9999
DL = 0.003033 ppb
BEC = 0.00186 ppb

Weight: <None>
Min Conc: <None>

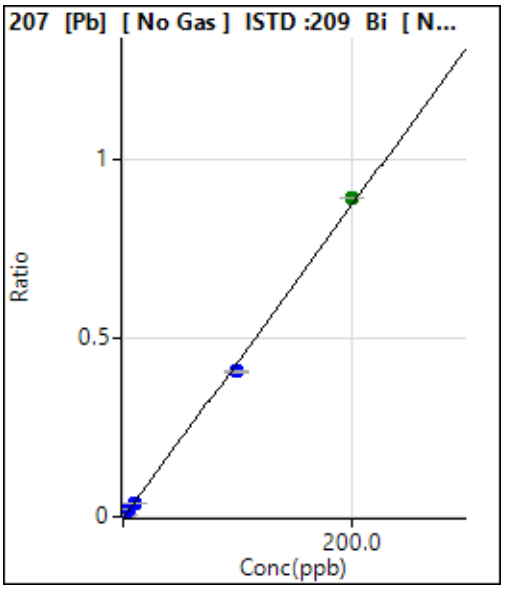
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	303.34	0.0001	P	15.0	
2	☐	2.000	1.795	22343.72	0.0092	P	0.9	-10.3
3	☐	5.000	4.444	55852.01	0.0226	P	0.4	-11.1
4	☐	10.000	9.006	112141.24	0.0456	P	2.6	-9.9
5	☐	100.000	92.528	1104982.90	0.4673	P	0.0	-7.5
6	☐	200.000	203.802	2376639.13	1.0291	A	1.1	1.9

y = 0.0050 * x + 1.2586E-004
R = 0.9991
DL = 0.01123 ppb
BEC = 0.02493 ppb

Weight: <None>
Min Conc: <None>

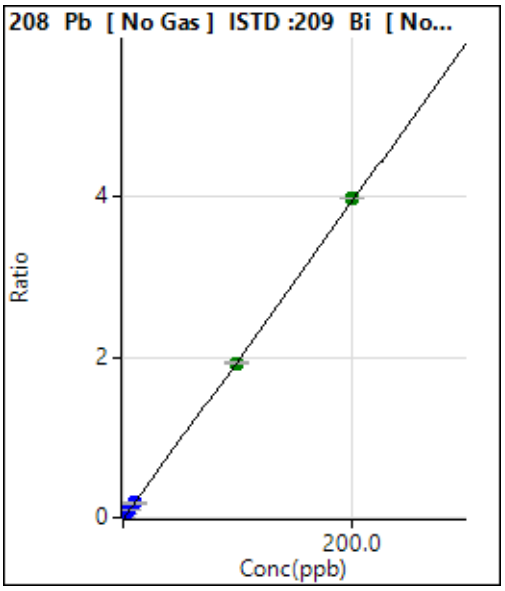


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	210.01	0.0001	P	14.3	
2	☐	2.000	1.738	18731.00	0.0077	P	2.6	-13.1
3	☐	5.000	4.434	48317.23	0.0195	P	1.3	-11.3
4	☐	10.000	9.016	97382.44	0.0396	P	3.4	-9.8
5	☐	100.000	92.733	961084.75	0.4065	P	0.9	-7.3
6	☐	200.000	203.699	2061619.39	0.8927	A	0.1	1.8

y = 0.0044 * x + 8.7127E-005
R = 0.9991
DL = 0.008531 ppb
BEC = 0.01988 ppb

Weight: <None>
Min Conc: <None>

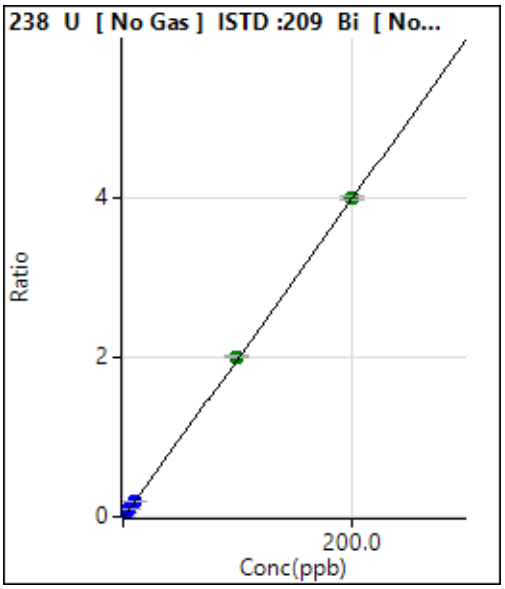
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1016.71	0.0004	P	2.2	
2	☐	2.000	1.821	88575.50	0.0364	P	1.1	-9.0
3	☐	5.000	4.499	221252.86	0.0894	P	0.7	-10.0
4	☐	10.000	9.171	447032.27	0.1818	P	2.6	-8.3
5	☐	100.000	97.328	4551448.71	1.9249	A	0.8	-2.7
6	☐	200.000	201.392	9197262.93	3.9826	A	0.4	0.7

y = 0.0198 * x + 4.2123E-004
R = 0.9999
DL = 0.001415 ppb
BEC = 0.0213 ppb

Weight: <None>
Min Conc: <None>

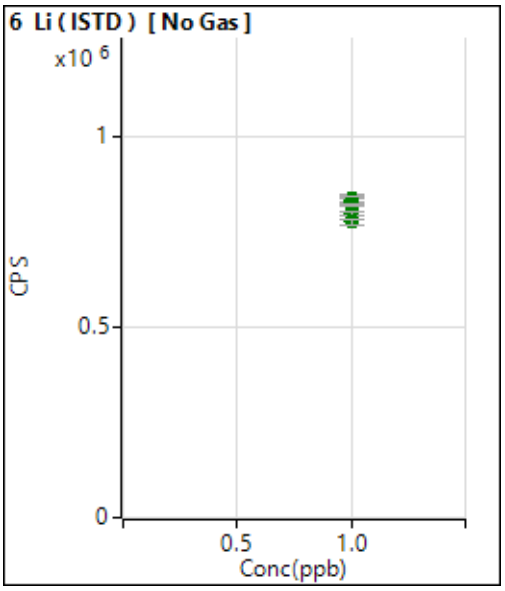


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3.33	0.0000	P	173.2	
2	☐	2.000	1.824	88629.32	0.0364	P	0.7	-8.8
3	☐	5.000	4.491	222079.12	0.0897	P	2.2	-10.2
4	☐	10.000	9.280	455924.11	0.1854	P	1.8	-7.2
5	☐	100.000	100.300	4737348.05	2.0037	A	1.4	0.3
6	☐	200.000	199.901	9221955.69	3.9934	A	0.6	0.0

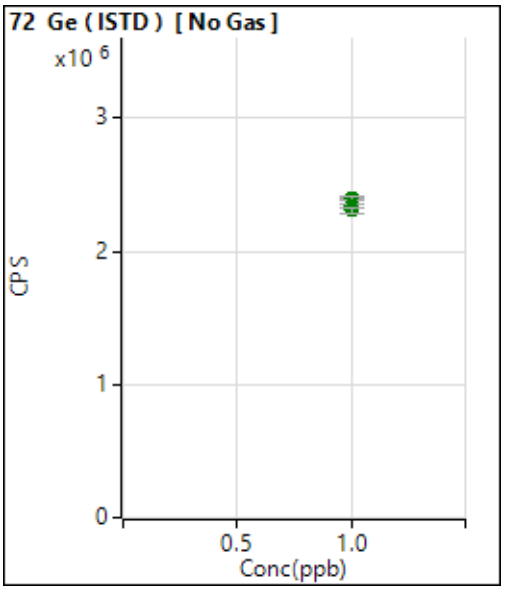
y = 0.0200 * x + 1.3724E-006
R = 1.0000
DL = 0.000357 ppb
BEC = 6.87E-05 ppb

Weight: <None>
Min Conc: <None>

Calibration for 166_ICV.d

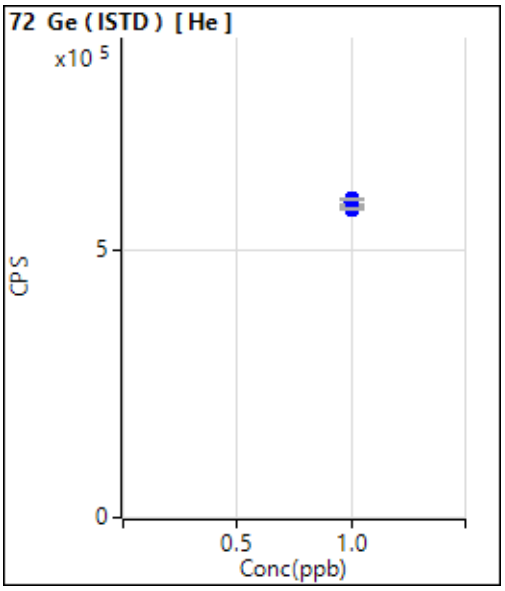


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		839052.94		A	2.6	
2	☐	1.000		829475.28		A	2.1	
3	☐	1.000		832336.79		A	2.6	
4	☐	1.000		822479.99		A	0.8	
5	☐	1.000		796908.73		A	1.5	
6	☐	1.000		777082.83		A	2.1	

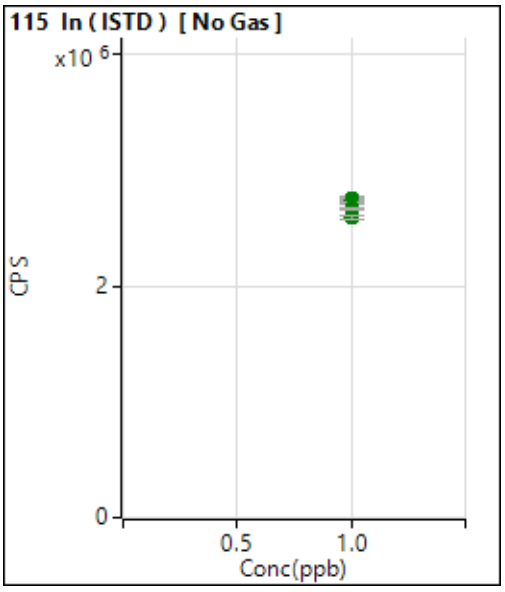


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2387222.36		A	0.4	
2	☐	1.000		2395304.81		A	0.7	
3	☐	1.000		2379728.35		A	1.6	
4	☐	1.000		2399767.88		A	1.1	
5	☐	1.000		2337324.65		A	1.3	
6	☐	1.000		2308506.22		A	1.7	

Calibration for 166_ICV.d

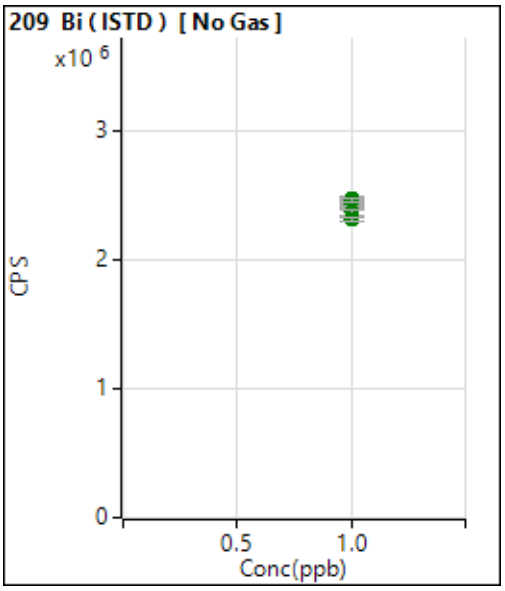


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		589069.89		P	1.4	
2	☐	1.000		595842.33		P	0.3	
3	☐	1.000		593656.89		P	0.5	
4	☐	1.000		582632.71		P	0.7	
5	☐	1.000		592952.67		P	0.4	
6	☐	1.000		575305.88		P	0.8	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2718731.60		A	1.5	
2	☐	1.000		2737850.42		A	2.1	
3	☐	1.000		2756566.87		A	0.4	
4	☐	1.000		2718971.55		A	0.7	
5	☐	1.000		2668537.40		A	0.5	
6	☐	1.000		2587534.48		A	1.0	

Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2414089.44		A	1.6	
2	☐	1.000		2431866.42		A	0.7	
3	☐	1.000		2475668.56		A	0.9	
4	☐	1.000		2459760.43		A	1.2	
5	☐	1.000		2364680.85		A	1.7	
6	☐	1.000		2309296.58		A	0.9	

Sample Report

Sample Table

Sample Name	LLCCV2
Data File Name	167LCV2.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T20:09:15-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	159CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	1.890	1.890	4.08	68226	0.00	2	
Be	9	1	No Gas	1.871	1.871	6.29	6453	0.03	2	
V	51	2	He	1.708	1.708	2.93	12877	0.01	2	
Cr	52	2	He	1.944	1.944	3.35	15275	0.01	2	
Fe	56	2	He	207.809	207.809	0.72	1371639	0.02	200	
Se	78	2	He	1.800	1.800	10.96	279	0.65	2	
As	75	2	He	2.025	2.025	2.24	2351	0.09	2	
Ca	44	2	He	190.037	190.037	4.24	6245	3.04	200	
Na	23	2	He	181.207	181.207	0.25	298800	0.06	200	
Mg	24	2	He	186.122	186.122	1.75	108278	0.17	200	
K	39	2	He	186.089	186.089	0.64	167249	0.11	200	
Mn	55	2	He	1.988	1.988	4.37	9480	0.02	2	
Co	59	2	He	1.860	1.860	0.82	23487	0.01	2	
Ni	60	2	He	3.040	3.040	3.76	11302	0.03	2	NewName Main CR1 Failed
Cu	63	2	He	3.355	3.355	2.21	35326	0.01	2	NewName Main CR1 Failed
Zn	66	2	He	2.054	2.054	5.44	3387	0.06	2	
Al	27	2	He	2.319	2.319	23.87	1417	0.16	2	
B	11	1	No Gas	17.205	17.205	1.52	41538	0.04	10	NewName Main CR1 Failed
Al	27	1	No Gas	1.977	1.977	3.32	81280	0.00	2	
Si	28	1	No Gas	11.851	11.851	6.47	433985	0.00	10	
Ag	107	1	No Gas	1.940	1.940	1.84	39238	0.00	2	
Cd	111	1	No Gas	1.907	1.907	3.14	7489	0.03	2	
Sr	88	1	No Gas	1.920	1.920	0.51	69762	0.00	2	
Mo	95	1	No Gas	2.030	2.030	2.11	14134	0.01	2	
Sn	118	1	No Gas	1.838	1.838	0.95	22520	0.01	2	
Sb	121	1	No Gas	1.900	1.900	4.20	32013	0.01	2	
Ba	137	1	No Gas	2.002	2.002	2.73	11192	0.02	2	
Tl	205	1	No Gas	1.925	1.925	1.11	66427	0.00	2	
Tl	203	1	No Gas	1.802	1.802	2.74	27564	0.01	2	
Pb	208	1	No Gas	1.865	1.865	1.14	91603	0.00	2	
U	238	1	No Gas	1.841	1.841	1.04	90345	0.00	2	
Ca	43	2	He	182.870	182.870	24.65	350	52.25	200	
Sb	121	2	He	1.927	1.927	1.52	14762	0.01	2	
Ti	47	2	He	2.149	2.149	10.48	433	0.50	200	
Cu	63	1	No Gas	3.416	3.416	1.33	61968	0.01	2	NewName Main CR1 Failed
Se	82	1	No Gas	2.297	2.297	25.73	166	1.38	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	837101	2.17	839053	99.77	70	120	
Ge	72	2	He	595713	0.89	589070	101.13	70	120	
Ge	72	1	No Gas	2413598	0.89	2387222	101.10	70	120	
In	115	1	No Gas	2734433	0.73	2718732	100.58	70	120	
Bi	209	1	No Gas	2456473	0.31	2414089	101.76	70	120	

Sample Report

Sample Table

Sample Name	LLCCV5
Data File Name	168LCV5.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T20:11:09-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	159CALB.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	4.748	4.748	4.96	101354	0.00	5	
Be	9	1	No Gas	4.780	4.780	3.25	16083	0.03	5	
V	51	2	He	4.696	4.696	1.16	31503	0.01	5	
Cr	52	2	He	4.781	4.781	1.63	37221	0.01	5	
Fe	56	2	He	508.988	508.988	1.32	3387488	0.02	500	
Se	78	2	He	4.926	4.926	5.83	537	0.92	5	
As	75	2	He	4.904	4.904	3.97	5582	0.09	5	
Ca	44	2	He	493.848	493.848	3.19	15682	3.15	500	
Na	23	2	He	455.531	455.531	0.47	592772	0.08	500	
Mg	24	2	He	464.009	464.009	1.47	272924	0.17	500	
K	39	2	He	460.301	460.301	0.33	337467	0.14	500	
Mn	55	2	He	4.878	4.878	1.07	22846	0.02	5	
Co	59	2	He	4.721	4.721	1.29	60347	0.01	5	
Ni	60	2	He	4.532	4.532	3.38	16193	0.03	5	
Cu	63	2	He	4.313	4.313	0.58	44486	0.01	5	
Zn	66	2	He	4.939	4.939	3.91	7772	0.06	5	
Al	27	2	He	4.832	4.832	20.55	2097	0.23	5	
B	11	1	No Gas	27.019	27.019	2.01	60624	0.04	25	
Al	27	1	No Gas	4.462	4.462	5.16	121285	0.00	5	
Si	28	1	No Gas	25.395	25.395	5.64	531591	0.00	25	
Ag	107	1	No Gas	4.702	4.702	1.06	95812	0.00	5	
Cd	111	1	No Gas	4.904	4.904	1.00	19578	0.03	5	
Sr	88	1	No Gas	4.693	4.693	0.66	170593	0.00	5	
Mo	95	1	No Gas	4.794	4.794	2.38	33897	0.01	5	
Sn	118	1	No Gas	4.548	4.548	2.82	55681	0.01	5	
Sb	121	1	No Gas	4.679	4.679	2.86	78293	0.01	5	
Ba	137	1	No Gas	4.767	4.767	0.27	26781	0.02	5	
Tl	205	1	No Gas	4.714	4.714	1.62	163214	0.00	5	
Tl	203	1	No Gas	4.480	4.480	1.46	68735	0.01	5	
Pb	208	1	No Gas	4.593	4.593	0.50	225089	0.00	5	
U	238	1	No Gas	4.630	4.630	0.70	228132	0.00	5	
Ca	43	2	He	463.328	463.328	8.75	863	53.66	500	
Sb	121	2	He	4.647	4.647	1.16	35809	0.01	5	
Ti	47	2	He	4.552	4.552	12.82	930	0.49	5	
Cu	63	1	No Gas	4.313	4.313	1.83	75911	0.01	5	
Se	82	1	No Gas	5.705	5.705	19.86	921	0.62	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	816842	1.93	839053	97.35	70	120	
Ge	72	2	He	603554	0.25	589070	102.46	70	120	
Ge	72	1	No Gas	2414108	1.59	2387222	101.13	70	120	

Sample Report

In	115	1	No Gas	2782297	0.86	2718732	102.34	70	120	
Bi	209	1	No Gas	2466832	1.00	2414089	102.18	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICCB
Data File Name	169_ICB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T20:13:02-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	159CALB.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	0.053	210.9	44465	0.4	0.5	
Be	9	1	No Gas	0.015	160.2	53	149.5	0.5	
V	51	2	He	-0.245	-5.0	987	8.0	2.5	
Cr	52	2	He	0.162	15.3	1797	10.0	2.5	
Fe	56	2	He	-0.042	-114.0	10865	2.4	100	
Se	78	2	He	-0.137	-170.9	124	14.8	1	
As	75	2	He	-0.051	-28.2	74	21.2	2.5	
Ca	44	2	He	-4.410	-11.7	340	5.1	100	
Na	23	2	He	-6.567	-16.2	103528	1.2	100	
Mg	24	2	He	-0.132	-112.4	290	30.1	100	
K	39	2	He	-2.896	-32.9	53313	0.8	100	
Mn	55	2	He	0.022	45.5	593	7.0	2.5	
Co	59	2	He	0.003	58.5	67	31.2	2.5	
Ni	60	2	He	-0.378	-3.2	580	6.9	2.5	
Cu	63	2	He	-0.485	-1.1	937	4.8	1	
Zn	66	2	He	0.185	18.0	617	8.0	2.5	
Al	27	2	He	-2.142	-5.4	257	11.2	5	
B	11	1	No Gas	3.490	7.0	12487	0.7	0.5	ICB Main CR1 Failed
Al	27	1	No Gas	-2.082	-1.7	15669	2.6	5	
Si	28	1	No Gas	-9.421	-6.4	275763	0.4	10	
Ag	107	1	No Gas	0.002	870.3	707	58.1	2.5	
Cd	111	1	No Gas	0.024	182.5	103	164.9	1	
Sr	88	1	No Gas	-0.018	-150.6	1347	67.9	2.5	
Mo	95	1	No Gas	0.007	233.3	97	119.9	2.5	
Sn	118	1	No Gas	0.045	47.8	1194	21.1	5	
Sb	121	1	No Gas	0.030	97.0	860	53.0	2.5	
Ba	137	1	No Gas	-0.005	-533.8	210	61.9	2.5	
Tl	205	1	No Gas	0.019	143.4	687	129.1	1	
Tl	203	1	No Gas	0.012	164.2	210	132.0	1	
Pb	208	1	No Gas	0.018	97.9	1887	42.9	2.5	
U	238	1	No Gas	0.009	170.7	450	169.4	2.5	
Ca	43	2	He	-0.123	-10350.3	23	99.0	100	
Sb	121	2	He	0.016	10.0	303	3.8	2.5	
Ti	47	2	He	0.033	86.6	7	86.6	2.5	
Se	82	1	No Gas	0.527	238.5	-224	-124.1	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	821924	3.40	839053	97.96	70	120	
Ge	72	2	He	599651	0.50	589070	101.80	70	120	
Ge	72	1	No Gas	2370959	1.18	2387222	99.32	70	120	
In	115	1	No Gas	2727599	1.73	2718732	100.33	70	120	
Bi	209	1	No Gas	2422418	2.14	2414089	100.35	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	190_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T20:52:26-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	159CALB.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	97.654	2.038	1250829	2.69	100	97.7	90	110	
Be	9	1	No Gas	95.569	1.193	326353	1.35	100	95.6	90	110	
V	51	2	He	100.211	0.193	617353	0.49	100	100.2	90	110	
Cr	52	2	He	96.945	0.566	739128	0.70	100	96.9	90	110	
Fe	56	2	He	10075.153	0.662	66416371	0.34	10000	100.8	90	110	
Se	78	2	He	97.662	1.000	8028	1.31	100	97.7	90	110	
As	75	2	He	99.531	0.891	110055	0.56	100	99.5	90	110	
Ca	44	2	He	9790.293	0.235	299958	0.53	10000	97.9	90	110	
Na	23	2	He	10035.777	0.427	10653543	0.75	10000	100.4	90	110	
Mg	24	2	He	10055.277	0.557	5869195	0.74	10000	100.6	90	110	
K	39	2	He	9956.439	0.253	6116537	0.11	10000	99.6	90	110	
Mn	55	2	He	99.130	0.322	451756	0.40	100	99.1	90	110	
Co	59	2	He	102.858	0.914	1305934	1.19	100	102.9	90	110	
Ni	60	2	He	100.473	0.131	319134	0.23	100	100.5	90	110	
Cu	63	2	He	96.170	0.630	872429	0.33	100	96.2	90	110	
Zn	66	2	He	100.819	0.326	151026	0.08	100	100.8	90	110	
Al	27	2	He	99.150	1.250	26793	1.06	100	99.1	90	110	
B	11	1	No Gas	496.306	1.501	1037454	2.18	500	99.3	90	110	
Al	27	1	No Gas	100.268	0.784	1661020	0.82	100	100.3	90	110	
Si	28	1	No Gas	495.573	1.465	3912962	0.64	5000	9.9	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	101.144	2.262	2054026	2.30	100	101.1	90	110	
Cd	111	1	No Gas	97.741	1.446	391315	1.49	100	97.7	90	110	
Sr	88	1	No Gas	100.000	1.710	3605617	1.74	100	100.0	90	110	
Mo	95	1	No Gas	99.646	0.930	705970	1.00	100	99.6	90	110	
Sn	118	1	No Gas	100.725	0.800	1223281	0.87	100	100.7	90	110	
Sb	121	1	No Gas	103.600	1.275	1722752	0.95	100	103.6	90	110	
Ba	137	1	No Gas	99.368	1.314	555316	1.39	100	99.4	90	110	
Tl	205	1	No Gas	102.122	0.916	3552301	0.70	100	102.1	90	110	
Tl	203	1	No Gas	101.324	1.882	1561524	1.22	100	101.3	90	110	
Pb	208	1	No Gas	97.178	1.416	4764686	1.26	100	97.2	90	110	
U	238	1	No Gas	99.201	1.830	4912770	1.66	100	99.2	90	110	
Ca	43	2	He	9948.667	1.663	17939	1.67	10000	99.5	90	110	
Sb	121	2	He	95.486	0.242	727550	0.38	100	95.5	90	110	
Ti	47	2	He	99.989	1.565	20295	1.47	100	100.0	90	110	
Cu	63	1	No Gas	101.879	2.329	1590096	2.19	100	101.9	90	110	
Se	82	1	No Gas	101.211	0.440	22088	1.06	100	101.2	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	828910	1.51	839053	98.79	70	120	
Ge	72	2	He	599700	0.35	589070	101.80	70	120	
Ge	72	1	No Gas	2410106	0.80	2387222	100.96	70	120	
In	115	1	No Gas	2791515	0.11	2718732	102.68	70	120	
Bi	209	1	No Gas	2479175	0.87	2414089	102.70	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	191_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T20:54:13-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	159CALB.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	0.016	607.0	45453	2.2	0.5	
Be	9	1	No Gas	0.005	113.9	22	96.1	0.5	
V	51	2	He	-0.301	-3.6	640	10.5	2.5	
Cr	52	2	He	0.106	5.8	1370	3.3	2.5	
Fe	56	2	He	0.302	30.2	13113	4.2	100	
Se	78	2	He	-0.201	-86.9	119	11.5	2	
As	75	2	He	-0.041	-41.6	84	22.8	2.5	
Ca	44	2	He	-1.651	-163.8	423	19.1	100	
Na	23	2	He	-6.404	-13.2	103509	0.6	100	
Mg	24	2	He	0.819	31.0	843	17.3	100	
K	39	2	He	-0.802	-221.4	54487	1.7	100	
Mn	55	2	He	0.055	21.0	743	7.4	2.5	
Co	59	2	He	0.003	53.7	73	31.5	2.5	
Ni	60	2	He	-0.449	-2.3	357	9.0	2.5	
Cu	63	2	He	-0.472	-2.2	1047	8.8	2	
Zn	66	2	He	0.394	3.2	927	2.2	2.5	
Al	27	2	He	-1.732	-11.2	363	13.9	5	
B	11	1	No Gas	10.880	8.1	28629	6.6	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-1.775	-1.5	21070	1.0	5	
Si	28	1	No Gas	-7.565	-9.8	296819	3.1	10	
Ag	107	1	No Gas	-0.011	-21.6	463	10.6	2.5	
Cd	111	1	No Gas	0.001	537.2	13	114.6	1	
Sr	88	1	No Gas	-0.015	-7.0	1513	3.4	2.5	
Mo	95	1	No Gas	0.002	69.4	67	17.3	2.5	
Sn	118	1	No Gas	0.025	19.2	997	5.5	5	
Sb	121	1	No Gas	0.027	12.6	843	8.9	2.5	
Ba	137	1	No Gas	-0.012	-48.7	180	19.2	2.5	
Tl	205	1	No Gas	0.020	37.2	780	33.3	1	
Tl	203	1	No Gas	0.016	52.2	293	43.8	1	
Pb	208	1	No Gas	0.010	22.6	1553	7.3	2.5	
U	238	1	No Gas	0.002	9.3	120	8.3	2.5	
Ca	43	2	He	-1.913	-292.8	20	50.0	100	
Sb	121	2	He	0.020	4.4	337	1.7	2.5	
Ti	47	2	He	0.049	100.2	10	100.0	2.5	
Cu	63	1	No Gas	-0.461	-0.3	1720	1.0	2.5	
Se	82	1	No Gas	0.117	1151.4	-318	-95.0	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	848362	0.48	839053	101.11	70	120	
Ge	72	2	He	598555	0.39	589070	101.61	70	120	
Ge	72	1	No Gas	2435600	2.23	2387222	102.03	70	120	
In	115	1	No Gas	2859189	0.75	2718732	105.17	70	120	
Bi	209	1	No Gas	2528642	0.78	2414089	104.75	70	120	

Sample Report

Sample Table

Sample Name	MBLK-182759
Data File Name	192SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T20:56:06-05:00
Sample Type	Sample
Dilution	1
Comment	DOD TW 182759
ISTD Ref FileName	159CALB.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	0.004	0.004	361.21	46552	0.00	2000	
Be	9	1	No Gas	0.004	0.004	44.54	17	0.02	2000	
V	51	2	He	-0.291	-0.291	-0.80	734	-0.04	2000	
Cr	52	2	He	0.056	0.056	28.01	1043	0.01	2000	
Fe	56	2	He	1.232	1.232	3.43	20215	0.01	200000	
Se	78	2	He	-0.077	-0.077	-112.42	135	-0.06	2000	
As	75	2	He	-0.048	-0.048	-41.04	81	-0.06	2000	
Ca	44	2	He	8.672	8.672	27.20	777	1.12	200000	
Na	23	2	He	-11.385	-11.385	-4.80	103337	-0.01	200000	
Mg	24	2	He	11.435	11.435	4.36	7389	0.15	200000	
K	39	2	He	-3.119	-3.119	-25.66	55810	-0.01	200000	
Mn	55	2	He	0.048	0.048	26.61	750	0.01	2000	
Co	59	2	He	0.000	0.000	541.95	37	0.00	2000	
Ni	60	2	He	-0.510	-0.510	-2.06	173	-0.29	2000	
Cu	63	2	He	-0.408	-0.408	-2.45	1710	-0.02	2000	
Zn	66	2	He	0.887	0.887	8.11	1747	0.05	2000	
Al	27	2	He	4.275	4.275	9.42	2034	0.21	2000	
B	11	1	No Gas	6.021	6.021	3.94	18788	0.03	2000	
Al	27	1	No Gas	3.750	3.750	2.78	116996	0.00	2000	
Si	28	1	No Gas	86.542	86.542	1.90	1035553	0.01	2000	
Ag	107	1	No Gas	-0.014	-0.014	-5.90	417	0.00	2000	
Cd	111	1	No Gas	-0.003	-0.003	0.00	0	#DIV/0!	2000	
Sr	88	1	No Gas	0.013	0.013	35.06	2697	0.00	2000	
Mo	95	1	No Gas	0.004	0.004	153.89	83	0.00	2000	
Sn	118	1	No Gas	0.061	0.061	12.37	1507	0.00	2000	
Sb	121	1	No Gas	0.007	0.007	15.46	543	0.00	2000	
Ba	137	1	No Gas	0.196	0.196	12.72	1433	0.01	2000	
Tl	205	1	No Gas	0.002	0.002	7.71	143	0.00	2000	
Tl	203	1	No Gas	0.000	0.000	-1203.37	43	0.00	2000	
Pb	208	1	No Gas	0.011	0.011	32.00	1730	0.00	2000	
U	238	1	No Gas	0.000	0.000	66.37	27	0.00	2000	
Ca	43	2	He	4.598	4.598	567.96	33	13.79	200000	
Sb	121	2	He	0.010	0.010	37.28	273	0.00	2000	
Ti	47	2	He	0.078	0.078	34.54	17	0.47	2000	
Cu	63	1	No Gas	-0.395	-0.395	-2.40	2897	-0.01	2000	
Zn	66	1	No Gas	0.747	0.747	7.93	4327	0.02	2000	
Se	82	1	No Gas	-0.036	-0.036	-3251.98	-373	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	871574	1.14	839053	103.88	70	120	
Ge	72	2	He	629306	0.18	589070	106.83	70	120	
Ge	72	1	No Gas	2571344	1.00	2387222	107.71	70	120	
In	115	1	No Gas	2988410	0.99	2718732	109.92	70	120	

Sample Report

Bi	209	1	No Gas	2717486	0.57	2414089	112.57	70	120	

Sample Report

Sample Table

Sample Name	LCS-182759
Data File Name	193SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T20:57:59-05:00
Sample Type	Sample
Dilution	1
Comment	DOD TW 182759
ISTD Ref FileName	159CALB.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	107.184	107.184	1.81	1342074	0.01	2000	
Be	9	1	No Gas	52.782	52.782	1.09	176786	0.03	2000	
V	51	2	He	51.895	51.895	0.71	334339	0.02	2000	
Cr	52	2	He	50.313	50.313	0.63	399950	0.01	2000	
Fe	56	2	He	5232.225	5232.225	0.14	35942774	0.01	200000	
Se	78	2	He	52.347	52.347	1.97	4548	1.15	2000	
As	75	2	He	52.882	52.882	2.04	60986	0.09	2000	
Ca	44	2	He	5230.639	5230.639	2.48	167190	3.13	200000	
Na	23	2	He	5156.082	5156.082	0.45	5758651	0.09	200000	
Mg	24	2	He	5335.881	5335.881	0.83	3245098	0.16	200000	
K	39	2	He	5221.059	5221.059	0.90	3369061	0.15	200000	
Mn	55	2	He	52.354	52.354	0.61	248832	0.02	2000	
Co	59	2	He	49.217	49.217	0.75	651059	0.01	2000	
Ni	60	2	He	52.441	52.441	0.26	174432	0.03	2000	
Cu	63	2	He	51.014	51.014	1.33	484761	0.01	2000	
Zn	66	2	He	55.316	55.316	1.39	86491	0.06	2000	
Al	27	2	He	100.533	100.533	3.99	28289	0.36	2000	
B	11	1	No Gas	512.922	512.922	1.49	1051306	0.05	2000	
Al	27	1	No Gas	101.422	101.422	2.09	1759579	0.01	2000	
Si	28	1	No Gas	585.000	585.000	0.44	4774194	0.01	2000	
Ag	107	1	No Gas	46.214	46.214	1.39	983421	0.00	2000	
Cd	111	1	No Gas	51.317	51.317	1.46	215218	0.02	2000	
Sr	88	1	No Gas	104.782	104.782	2.72	3956720	0.00	2000	
Mo	95	1	No Gas	50.902	50.902	1.72	377748	0.01	2000	
Sn	118	1	No Gas	103.925	103.925	1.98	1321983	0.01	2000	
Sb	121	1	No Gas	50.610	50.610	2.10	881904	0.01	2000	
Ba	137	1	No Gas	51.240	51.240	0.78	300088	0.02	2000	
Tl	205	1	No Gas	52.795	52.795	0.89	1926065	0.00	2000	
Tl	203	1	No Gas	47.521	47.521	1.79	768122	0.01	2000	
Pb	208	1	No Gas	50.289	50.289	0.68	2586562	0.00	2000	
U	238	1	No Gas	103.658	103.658	0.78	5384197	0.00	2000	
Ca	43	2	He	5400.168	5400.168	3.06	10157	53.17	200000	
Sb	121	2	He	49.998	49.998	0.93	396993	0.01	2000	
Ti	47	2	He	156.310	156.310	0.66	33057	0.47	2000	
Cu	63	1	No Gas	50.505	50.505	1.85	830520	0.01	2000	
Zn	66	1	No Gas	55.111	55.111	1.89	240450	0.02	2000	
Se	82	1	No Gas	54.093	54.093	1.98	12201	0.44	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	813013	1.38	839053	96.90	70	120	
Ge	72	2	He	624832	0.67	589070	106.07	70	120	
Ge	72	1	No Gas	2525312	1.32	2387222	105.78	70	120	
In	115	1	No Gas	2924218	1.11	2718732	107.56	70	120	

Sample Report

Bi	209	1	No Gas	2600096	0.73	2414089	107.71	70	120	

Sample Report

Sample Table

Sample Name	HS22080927-01
Data File Name	194SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T20:59:48-05:00
Sample Type	Sample
Dilution	1
Comment	DOD TW 182759
ISTD Ref FileName	159CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	6.639	6.639	1.27	127464	0.01	2000	
Be	9	1	No Gas	0.049	0.049	13.99	173	0.03	2000	
V	51	2	He	0.306	0.306	4.39	4533	0.01	2000	
Cr	52	2	He	117.486	117.486	0.18	929199	0.01	2000	
Fe	56	2	He	502.694	502.694	0.60	3449045	0.01	200000	
Se	78	2	He	4.197	4.197	11.80	492	0.85	2000	
As	75	2	He	0.127	0.127	12.50	281	0.05	2000	
Ca	44	2	He	1715.963	1715.963	1.12	54950	3.12	200000	
Na	23	2	He	39661.571	39661.571	0.65	43342209	0.09	200000	
Mg	24	2	He	1081.196	1081.196	1.23	655057	0.17	200000	
K	39	2	He	738.317	738.317	0.37	523487	0.14	200000	
Mn	55	2	He	4.060	4.060	0.79	19688	0.02	2000	
Co	59	2	He	0.309	0.309	5.02	4107	0.01	2000	
Ni	60	2	He	43.664	43.664	0.84	144931	0.03	2000	
Cu	63	2	He	0.440	0.440	4.28	9624	0.00	2000	
Zn	66	2	He	4.188	4.188	5.53	6845	0.06	2000	
Al	27	2	He	74.816	74.816	3.53	21187	0.35	2000	
B	11	1	No Gas	109.964	109.964	2.96	236197	0.05	2000	
Al	27	1	No Gas	77.442	77.442	4.64	1356944	0.01	2000	
Si	28	1	No Gas	16941.555	16941.555	1.63	128175118	0.01	2000	>LDR
Ag	107	1	No Gas	-0.013	-0.013	-22.40	447	0.00	2000	
Cd	111	1	No Gas	0.053	0.053	30.26	233	0.02	2000	
Sr	88	1	No Gas	30.370	30.370	1.45	1156755	0.00	2000	
Mo	95	1	No Gas	0.579	0.579	3.35	4381	0.01	2000	
Sn	118	1	No Gas	0.163	0.163	5.76	2804	0.01	2000	
Sb	121	1	No Gas	0.047	0.047	9.39	1220	0.00	2000	
Ba	137	1	No Gas	54.906	54.906	0.55	323834	0.02	2000	
Tl	205	1	No Gas	0.031	0.031	43.50	1233	0.00	2000	
Tl	203	1	No Gas	0.026	0.026	53.15	480	0.01	2000	
Pb	208	1	No Gas	0.080	0.080	6.94	5417	0.00	2000	
U	238	1	No Gas	0.049	0.049	5.14	2667	0.00	2000	
Ca	43	2	He	1732.066	1732.066	2.78	3260	53.12	200000	
Sb	121	2	He	0.049	0.049	20.75	573	0.01	2000	
Ti	47	2	He	1.442	1.442	23.07	303	0.48	2000	
Cu	63	1	No Gas	0.692	0.692	4.18	20546	0.00	2000	
Zn	66	1	No Gas	4.073	4.073	0.89	18723	0.02	2000	
Se	82	1	No Gas	4.929	4.929	24.35	788	0.63	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	836997	2.42	839053	99.75	70	120	
Ge	72	2	He	622189	0.61	589070	105.62	70	120	
Ge	72	1	No Gas	2527675	0.88	2387222	105.88	70	120	
In	115	1	No Gas	2945109	0.29	2718732	108.33	70	120	

Sample Report

Bi	209	1	No Gas	2697805	1.54	2414089	111.75	70	120	

Sample Report

Sample Table

Sample Name	HS22080927-01MS
Data File Name	196SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T21:03:33-05:00
Sample Type	Sample
Dilution	1
Comment	DOD TW 182759
ISTD Ref FileName	159CALB.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	113.210	113.210	2.80	1393413	0.01	2000	
Be	9	1	No Gas	51.823	51.823	1.31	170935	0.03	2000	
V	51	2	He	51.165	51.165	0.25	328195	0.02	2000	
Cr	52	2	He	175.793	175.793	0.41	1389638	0.01	2000	
Fe	56	2	He	5603.387	5603.387	0.50	38318154	0.01	200000	
Se	78	2	He	54.675	54.675	1.63	4723	1.16	2000	
As	75	2	He	52.207	52.207	1.35	59938	0.09	2000	
Ca	44	2	He	6814.471	6814.471	1.46	216712	3.14	200000	
Na	23	2	He	44334.448	44334.448	0.78	48422444	0.09	200000	
Mg	24	2	He	6322.227	6322.227	2.14	3827445	0.17	200000	
K	39	2	He	5840.767	5840.767	0.76	3745340	0.16	200000	
Mn	55	2	He	54.725	54.725	1.20	258913	0.02	2000	
Co	59	2	He	48.547	48.547	0.45	639325	0.01	2000	
Ni	60	2	He	93.989	93.989	0.63	309756	0.03	2000	
Cu	63	2	He	50.356	50.356	0.49	476429	0.01	2000	
Zn	66	2	He	57.389	57.389	0.19	89319	0.06	2000	
Al	27	2	He	206.339	206.339	0.87	56917	0.36	2000	
B	11	1	No Gas	639.215	639.215	1.17	1289080	0.05	2000	
Al	27	1	No Gas	203.072	203.072	0.75	3488345	0.01	2000	
Si	28	1	No Gas	17371.654	17371.654	1.64	131915841	0.01	2000	>LDR
Ag	107	1	No Gas	45.041	45.041	0.72	952705	0.00	2000	
Cd	111	1	No Gas	51.468	51.468	0.71	214539	0.02	2000	
Sr	88	1	No Gas	133.444	133.444	0.71	5008771	0.00	2000	
Mo	95	1	No Gas	50.843	50.843	0.23	375059	0.01	2000	
Sn	118	1	No Gas	103.298	103.298	0.47	1306158	0.01	2000	
Sb	121	1	No Gas	49.442	49.442	0.91	865773	0.01	2000	
Ba	137	1	No Gas	106.789	106.789	1.07	621316	0.02	2000	
Tl	205	1	No Gas	52.236	52.236	0.53	1930593	0.00	2000	
Tl	203	1	No Gas	46.204	46.204	0.84	756571	0.01	2000	
Pb	208	1	No Gas	49.438	49.438	0.18	2575978	0.00	2000	
U	238	1	No Gas	102.367	102.367	0.54	5386308	0.00	2000	
Ca	43	2	He	7098.496	7098.496	2.44	13283	53.44	200000	
Sb	121	2	He	49.155	49.155	0.40	388551	0.01	2000	
Ti	47	2	He	151.181	151.181	1.35	31827	0.48	2000	
Cu	63	1	No Gas	49.789	49.789	1.06	822849	0.01	2000	
Zn	66	1	No Gas	57.828	57.828	1.60	253482	0.02	2000	
Se	82	1	No Gas	55.843	55.843	5.88	12670	0.44	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	800752	2.19	839053	95.44	70	120	
Ge	72	2	He	622010	0.58	589070	105.59	70	120	
Ge	72	1	No Gas	2537337	1.23	2387222	106.29	70	120	
In	115	1	No Gas	2906417	0.42	2718732	106.90	70	120	

Sample Report

Bi	209	1	No Gas	2633965	1.14	2414089	109.11	70	120	

Sample Report

Sample Table

Sample Name	HS22080927-01MSD
Data File Name	198SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T21:07:26-05:00
Sample Type	Sample
Dilution	1
Comment	DOD TW 182759
ISTD Ref FileName	159CALB.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	109.236	109.236	2.54	1383355	0.01	2000	
Be	9	1	No Gas	50.545	50.545	1.41	171332	0.03	2000	
V	51	2	He	50.959	50.959	0.32	328019	0.02	2000	
Cr	52	2	He	172.843	172.843	1.93	1371044	0.01	2000	
Fe	56	2	He	5536.140	5536.140	0.88	37989971	0.01	200000	
Se	78	2	He	53.399	53.399	1.53	4632	1.15	2000	
As	75	2	He	51.751	51.751	1.11	59622	0.09	2000	
Ca	44	2	He	6778.718	6778.718	0.29	216314	3.13	200000	
Na	23	2	He	43983.284	43983.284	0.47	48206331	0.09	200000	
Mg	24	2	He	6268.808	6268.808	0.31	3808483	0.16	200000	
K	39	2	He	5802.597	5802.597	0.95	3734116	0.16	200000	
Mn	55	2	He	54.563	54.563	0.51	259034	0.02	2000	
Co	59	2	He	48.237	48.237	0.77	637438	0.01	2000	
Ni	60	2	He	93.659	93.659	0.29	309756	0.03	2000	
Cu	63	2	He	50.268	50.268	0.45	477266	0.01	2000	
Zn	66	2	He	57.687	57.687	0.44	90095	0.06	2000	
Al	27	2	He	209.268	209.268	0.99	57912	0.36	2000	
B	11	1	No Gas	604.918	604.918	2.63	1253815	0.05	2000	
Al	27	1	No Gas	208.920	208.920	3.04	3548720	0.01	2000	
Si	28	1	No Gas	17314.934	17314.934	1.70	130104338	0.01	2000	>LDR
Ag	107	1	No Gas	44.788	44.788	1.43	943834	0.00	2000	
Cd	111	1	No Gas	51.576	51.576	1.14	214194	0.02	2000	
Sr	88	1	No Gas	132.186	132.186	0.54	4943384	0.00	2000	
Mo	95	1	No Gas	50.745	50.745	1.19	372943	0.01	2000	
Sn	118	1	No Gas	102.882	102.882	0.36	1296071	0.01	2000	
Sb	121	1	No Gas	49.485	49.485	1.36	857395	0.01	2000	
Ba	137	1	No Gas	106.325	106.325	1.29	616321	0.02	2000	
Tl	205	1	No Gas	51.758	51.758	1.99	1919924	0.00	2000	
Tl	203	1	No Gas	45.754	45.754	0.77	752023	0.01	2000	
Pb	208	1	No Gas	49.298	49.298	0.39	2578157	0.00	2000	
U	238	1	No Gas	101.579	101.579	0.18	5364653	0.00	2000	
Ca	43	2	He	7164.788	7164.788	1.07	13453	53.26	200000	
Sb	121	2	He	48.557	48.557	0.65	385159	0.01	2000	
Ti	47	2	He	153.286	153.286	2.16	32385	0.47	2000	
Cu	63	1	No Gas	50.127	50.127	1.30	819662	0.01	2000	
Zn	66	1	No Gas	57.498	57.498	1.65	249381	0.02	2000	
Se	82	1	No Gas	55.517	55.517	1.15	12459	0.45	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	822856	1.55	839053	98.07	70	120	
Ge	72	2	He	624173	0.39	589070	105.96	70	120	
Ge	72	1	No Gas	2510775	1.56	2387222	105.18	70	120	
In	115	1	No Gas	2895691	0.52	2718732	106.51	70	120	

Sample Report

Bi	209	1	No Gas	2643713	0.42	2414089	109.51	70	120	

Sample Report

Sample Table

Sample Name	HS22080927-01PDS
Data File Name	199SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T21:09:16-05:00
Sample Type	Sample
Dilution	1
Comment	DOD TW 182759
ISTD Ref FileName	159CALB.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	111.859	111.859	1.98	1371312	0.01	2000	
Be	9	1	No Gas	100.719	100.719	2.28	330673	0.03	2000	
V	51	2	He	100.602	100.602	0.29	634865	0.02	2000	
Cr	52	2	He	214.881	214.881	1.58	1677331	0.01	2000	
Fe	56	2	He	10399.252	10399.252	0.09	70224596	0.01	200000	
Se	78	2	He	103.403	103.403	2.35	8697	1.19	2000	
As	75	2	He	102.278	102.278	0.71	115844	0.09	2000	
Ca	44	2	He	11525.879	11525.879	0.80	361639	3.19	200000	
Na	23	2	He	47968.923	47968.923	0.93	51731626	0.09	200000	
Mg	24	2	He	11025.215	11025.215	0.27	6592062	0.17	200000	
K	39	2	He	10547.807	10547.807	0.54	6634625	0.16	200000	
Mn	55	2	He	102.135	102.135	0.35	476772	0.02	2000	
Co	59	2	He	101.004	101.004	0.74	1313704	0.01	2000	
Ni	60	2	He	142.498	142.498	0.83	462863	0.03	2000	
Cu	63	2	He	98.047	98.047	1.37	910966	0.01	2000	
Zn	66	2	He	109.448	109.448	1.11	167908	0.07	2000	
Al	27	2	He	275.071	275.071	2.73	74659	0.37	2000	
B	11	1	No Gas	627.321	627.321	0.73	1259679	0.05	2000	
Al	27	1	No Gas	291.278	291.278	12.29	4867439	0.01	2000	
Si	28	1	No Gas	17274.298	17274.298	0.26	128317761	0.01	2000	>LDR
Ag	107	1	No Gas	100.232	100.232	1.02	2082135	0.00	2000	
Cd	111	1	No Gas	99.965	99.965	0.91	409260	0.02	2000	
Sr	88	1	No Gas	163.461	163.461	1.49	6024851	0.00	2000	
Mo	95	1	No Gas	99.084	99.084	0.96	717825	0.01	2000	
Sn	118	1	No Gas	121.672	121.672	1.63	1510590	0.01	2000	
Sb	121	1	No Gas	103.333	103.333	0.79	1769283	0.01	2000	
Ba	137	1	No Gas	153.524	153.524	1.30	877164	0.02	2000	
Tl	205	1	No Gas	101.282	101.282	0.09	3583282	0.00	2000	
Tl	203	1	No Gas	100.407	100.407	1.57	1574119	0.01	2000	
Pb	208	1	No Gas	98.343	98.343	0.49	4904493	0.00	2000	
U	238	1	No Gas	0.063	0.063	22.14	3181	0.00	2000	
Ca	43	2	He	11647.541	11647.541	4.36	21504	54.17	200000	
Sb	121	2	He	96.536	96.536	0.60	753451	0.01	2000	
Ti	47	2	He	236.639	236.639	0.83	49202	0.48	2000	
Cu	63	1	No Gas	103.803	103.803	2.85	1667848	0.01	2000	
Zn	66	1	No Gas	107.823	107.823	1.22	461412	0.02	2000	
Se	82	1	No Gas	109.840	109.840	3.22	24710	0.44	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	797234	3.43	839053	95.02	70	120	
Ge	72	2	He	614315	1.05	589070	104.29	70	120	
Ge	72	1	No Gas	2481750	2.30	2387222	103.96	70	120	
In	115	1	No Gas	2854944	3.22	2718732	105.01	70	120	

Sample Report

Bi	209	1	No Gas	2521455	1.97	2414089	104.45	70	120	

Sample Report

Sample Table

Sample Name	HS22080927-01SD
Data File Name	200SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T21:11:04-05:00
Sample Type	Sample
Dilution	5
Comment	DOD TW 182759
ISTD Ref FileName	159CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	1.389	6.944	11.75	62130	0.00	2000	
Be	9	1	No Gas	0.017	0.086	57.60	63	0.03	2000	
V	51	2	He	-0.037	-0.187	-12.34	2239	0.00	2000	
Cr	52	2	He	23.920	119.598	0.80	181163	0.01	2000	
Fe	56	2	He	96.684	483.422	0.77	642618	0.02	200000	
Se	78	2	He	0.558	2.788	45.21	179	0.31	2000	
As	75	2	He	-0.020	-0.102	-105.07	107	-0.02	2000	
Ca	44	2	He	361.876	1809.382	0.83	11442	3.16	200000	
Na	23	2	He	8057.853	40289.263	1.22	8499198	0.09	200000	
Mg	24	2	He	220.950	1104.752	0.75	128175	0.17	200000	
K	39	2	He	143.877	719.383	3.01	141401	0.10	200000	
Mn	55	2	He	0.825	4.123	8.10	4211	0.02	2000	
Co	59	2	He	0.061	0.306	21.68	800	0.01	2000	
Ni	60	2	He	8.556	42.778	2.58	28544	0.03	2000	
Cu	63	2	He	-0.248	-1.239	-5.76	3047	-0.01	2000	
Zn	66	2	He	1.044	5.222	4.87	1884	0.06	2000	
Al	27	2	He	16.177	80.886	5.15	5011	0.32	2000	
B	11	1	No Gas	34.872	174.359	3.24	78833	0.04	2000	
Al	27	1	No Gas	16.535	82.675	3.98	313359	0.01	2000	
Si	28	1	No Gas	3425.977	17129.887	1.02	24848742	0.01	2000	>LDR
Ag	107	1	No Gas	-0.011	-0.056	-9.84	457	0.00	2000	
Cd	111	1	No Gas	0.018	0.088	138.51	80	0.02	2000	
Sr	88	1	No Gas	5.763	28.814	1.26	212280	0.00	2000	
Mo	95	1	No Gas	0.127	0.636	6.56	960	0.01	2000	
Sn	118	1	No Gas	0.072	0.360	33.31	1563	0.00	2000	
Sb	121	1	No Gas	0.107	0.536	16.88	2154	0.00	2000	
Ba	137	1	No Gas	10.993	54.966	3.03	62393	0.02	2000	
Tl	205	1	No Gas	0.015	0.073	41.21	600	0.00	2000	
Tl	203	1	No Gas	0.017	0.085	62.59	317	0.01	2000	
Pb	208	1	No Gas	0.039	0.195	6.63	3100	0.00	2000	
U	238	1	No Gas	0.010	0.052	28.74	547	0.00	2000	
Ca	43	2	He	347.432	1737.158	10.24	643	54.00	200000	
Sb	121	2	He	0.106	0.531	16.76	983	0.01	2000	
Ti	47	2	He	0.348	1.739	51.46	70	0.50	2000	
Cu	63	1	No Gas	-0.201	-1.004	-11.55	5698	0.00	2000	
Zn	66	1	No Gas	0.943	4.713	3.69	4841	0.02	2000	
Se	82	1	No Gas	1.058	5.288	76.07	-110	-0.97	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	839485	2.49	839053	100.05	70	120	
Ge	72	2	He	594357	0.20	589070	100.90	70	120	
Ge	72	1	No Gas	2396413	2.20	2387222	100.39	70	120	
In	115	1	No Gas	2826337	2.13	2718732	103.96	70	120	

Sample Report

Bi	209	1	No Gas	2601007	1.35	2414089	107.74	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	201_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T21:12:57-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	159CALB.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	100.629	4.350	1224923	3.90	100	100.6	90	110	
Be	9	1	No Gas	96.405	2.968	313254	3.12	100	96.4	90	110	
V	51	2	He	100.242	0.607	603890	0.68	100	100.2	90	110	
Cr	52	2	He	96.782	0.402	721584	0.89	100	96.8	90	110	
Fe	56	2	He	10033.701	0.690	64681784	0.70	10000	100.3	90	110	
Se	78	2	He	97.953	2.637	7874	3.01	100	98.0	90	110	
As	75	2	He	100.300	1.271	108451	0.77	100	100.3	90	110	
Ca	44	2	He	9779.842	0.577	293013	0.55	10000	97.8	90	110	
Na	23	2	He	9945.567	0.974	10325631	1.44	10000	99.5	90	110	
Mg	24	2	He	9953.435	0.944	5681439	1.31	10000	99.5	90	110	
K	39	2	He	9804.878	0.799	5891011	0.35	10000	98.0	90	110	
Mn	55	2	He	99.175	0.214	441972	0.33	100	99.2	90	110	
Co	59	2	He	101.792	0.423	1263799	0.28	100	101.8	90	110	
Ni	60	2	He	100.165	0.756	311134	1.14	100	100.2	90	110	
Cu	63	2	He	95.315	0.579	845606	0.16	100	95.3	90	110	
Zn	66	2	He	99.524	0.820	145801	1.32	100	99.5	90	110	
Al	27	2	He	96.728	3.187	25581	3.11	100	96.7	90	110	
B	11	1	No Gas	497.802	2.843	990179	3.55	500	99.6	90	110	
Al	27	1	No Gas	99.154	3.517	1611603	2.31	100	99.2	90	110	
Si	28	1	No Gas	492.534	1.789	3818334	3.01	5000	9.9	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	99.973	1.630	1989442	3.81	100	100.0	90	110	
Cd	111	1	No Gas	98.306	1.610	385616	3.29	100	98.3	90	110	
Sr	88	1	No Gas	99.543	2.226	3515630	2.34	100	99.5	90	110	
Mo	95	1	No Gas	99.127	1.973	688013	2.97	100	99.1	90	110	
Sn	118	1	No Gas	94.328	1.464	1122872	4.58	100	94.3	90	110	
Sb	121	1	No Gas	103.673	1.068	1691844	3.19	100	103.7	90	110	
Ba	137	1	No Gas	98.317	1.736	538271	2.82	100	98.3	90	110	
Tl	205	1	No Gas	101.272	0.883	3490457	2.66	100	101.3	90	110	
Tl	203	1	No Gas	101.011	0.677	1542721	3.24	100	101.0	90	110	
Pb	208	1	No Gas	96.934	1.230	4709394	3.02	100	96.9	90	110	
U	238	1	No Gas	98.989	0.214	4858348	3.50	100	99.0	90	110	
Ca	43	2	He	9936.213	3.679	17518	3.17	10000	99.4	90	110	
Sb	121	2	He	95.508	1.602	711633	1.72	100	95.5	90	110	
Ti	47	2	He	96.451	2.193	19144	1.83	100	96.5	90	110	
Cu	63	1	No Gas	101.045	0.923	1547824	3.35	100	101.0	90	110	
Se	82	1	No Gas	103.158	0.862	22101	3.68	100	103.2	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	788779	2.20	839053	94.01	70	120	
Ge	72	2	He	586446	0.50	589070	99.55	70	120	
Ge	72	1	No Gas	2365407	3.62	2387222	99.09	70	120	
In	115	1	No Gas	2736022	4.31	2718732	100.64	70	120	
Bi	209	1	No Gas	2456761	3.34	2414089	101.77	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	202_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T21:14:44-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	159CALB.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	0.208	92.9	44733	1.8	0.5	
Be	9	1	No Gas	0.008	50.2	30	44.1	0.5	
V	51	2	He	-0.237	-7.9	1016	10.8	2.5	
Cr	52	2	He	0.082	36.1	1163	18.2	2.5	
Fe	56	2	He	0.715	117.2	15534	34.8	100	
Se	78	2	He	-0.276	-68.9	111	14.0	2	
As	75	2	He	-0.028	-33.7	98	10.4	2.5	
Ca	44	2	He	-1.401	-202.2	423	20.1	100	
Na	23	2	He	-6.240	-26.3	101786	1.3	100	
Mg	24	2	He	1.286	97.7	1094	65.7	100	
K	39	2	He	-3.556	-58.1	51848	1.8	100	
Mn	55	2	He	0.023	97.3	590	17.2	2.5	
Co	59	2	He	0.012	60.8	173	50.4	2.5	
Ni	60	2	He	-0.473	-2.3	277	12.7	2.5	
Cu	63	2	He	-0.482	-2.7	940	11.8	2	
Zn	66	2	He	0.208	10.9	637	4.5	2.5	
Al	27	2	He	-1.991	-11.3	290	19.2	5	
B	11	1	No Gas	12.551	11.4	30047	7.0	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-1.887	-0.7	19187	1.5	5	
Si	28	1	No Gas	-9.118	-9.3	284436	1.3	10	
Ag	107	1	No Gas	-0.015	-30.0	390	22.4	2.5	
Cd	111	1	No Gas	0.002	211.3	20	100.0	1	
Sr	88	1	No Gas	-0.024	-7.1	1173	6.8	2.5	
Mo	95	1	No Gas	0.011	63.5	127	37.3	2.5	
Sn	118	1	No Gas	0.043	14.7	1213	4.8	5	
Sb	121	1	No Gas	0.039	32.3	1043	19.7	2.5	
Ba	137	1	No Gas	-0.018	-30.3	147	20.8	2.5	
Tl	205	1	No Gas	0.022	35.7	853	32.3	1	
Tl	203	1	No Gas	0.018	62.6	317	53.8	1	
Pb	208	1	No Gas	0.014	34.4	1740	12.8	2.5	
U	238	1	No Gas	0.003	19.4	160	18.8	2.5	
Ca	43	2	He	-3.611	-180.8	17	69.3	100	
Sb	121	2	He	0.038	11.5	460	7.5	2.5	
Ti	47	2	He	0.033	86.6	7	86.6	2.5	
Cu	63	1	No Gas	-0.460	-1.4	1730	5.5	2.5	
Se	82	1	No Gas	0.512	52.3	-230	-26.1	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	793309	3.55	839053	94.55	70	120	
Ge	72	2	He	587640	0.69	589070	99.76	70	120	
Ge	72	1	No Gas	2426693	0.98	2387222	101.65	70	120	
In	115	1	No Gas	2841573	1.51	2718732	104.52	70	120	
Bi	209	1	No Gas	2524570	0.91	2414089	104.58	70	120	

Sample Report

Sample Table

Sample Name	HS22080927-02
Data File Name	203SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T21:16:37-05:00
Sample Type	Sample
Dilution	1
Comment	DOD TW 182759
ISTD Ref FileName	159CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	6.375	6.375	1.64	122468	0.01	2000	
Be	9	1	No Gas	0.050	0.050	28.39	172	0.03	2000	
V	51	2	He	0.280	0.280	8.26	4318	0.01	2000	
Cr	52	2	He	83.316	83.316	0.40	651885	0.01	2000	
Fe	56	2	He	349.314	349.314	1.13	2373903	0.01	200000	
Se	78	2	He	3.320	3.320	9.73	414	0.80	2000	
As	75	2	He	0.101	0.101	12.30	248	0.04	2000	
Ca	44	2	He	1571.263	1571.263	1.37	49807	3.15	200000	
Na	23	2	He	36721.524	36721.524	1.35	39696781	0.09	200000	
Mg	24	2	He	1006.483	1006.483	0.35	603160	0.17	200000	
K	39	2	He	681.520	681.520	0.78	482275	0.14	200000	
Mn	55	2	He	3.124	3.124	3.40	15099	0.02	2000	
Co	59	2	He	0.267	0.267	1.95	3507	0.01	2000	
Ni	60	2	He	40.792	40.792	1.48	134031	0.03	2000	
Cu	63	2	He	0.291	0.291	8.43	8143	0.00	2000	
Zn	66	2	He	1.623	1.623	7.56	2837	0.06	2000	
Al	27	2	He	48.650	48.650	6.64	13914	0.35	2000	
B	11	1	No Gas	98.642	98.642	2.03	209578	0.05	2000	
Al	27	1	No Gas	47.629	47.629	2.55	844308	0.01	2000	
Si	28	1	No Gas	15789.401	15789.401	2.19	118006542	0.01	2000	>LDR
Ag	107	1	No Gas	-0.019	-0.019	-7.88	303	-0.01	2000	
Cd	111	1	No Gas	0.047	0.047	14.18	207	0.02	2000	
Sr	88	1	No Gas	26.740	26.740	0.55	1004114	0.00	2000	
Mo	95	1	No Gas	0.458	0.458	7.35	3427	0.01	2000	
Sn	118	1	No Gas	0.126	0.126	6.49	2290	0.01	2000	
Sb	121	1	No Gas	0.044	0.044	11.45	1150	0.00	2000	
Ba	137	1	No Gas	51.720	51.720	0.65	300691	0.02	2000	
Tl	205	1	No Gas	0.008	0.008	51.02	357	0.00	2000	
Tl	203	1	No Gas	0.005	0.005	64.03	133	0.00	2000	
Pb	208	1	No Gas	0.070	0.070	7.06	4770	0.00	2000	
U	238	1	No Gas	0.043	0.043	6.24	2264	0.00	2000	
Ca	43	2	He	1682.996	1682.996	2.92	3134	53.71	200000	
Sb	121	2	He	0.045	0.045	18.10	540	0.01	2000	
Ti	47	2	He	0.977	0.977	10.62	203	0.48	2000	
Cu	63	1	No Gas	0.482	0.482	7.00	16924	0.00	2000	
Zn	66	1	No Gas	1.636	1.636	5.22	8019	0.02	2000	
Se	82	1	No Gas	3.640	3.640	14.83	482	0.76	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	825473	1.01	839053	98.38	70	120	
Ge	72	2	He	615375	0.70	589070	104.47	70	120	
Ge	72	1	No Gas	2496738	1.43	2387222	104.59	70	120	
In	115	1	No Gas	2902842	0.54	2718732	106.77	70	120	

Sample Report

Bi	209	1	No Gas	2644417	1.27	2414089	109.54	70	120	

Sample Report

Sample Table

Sample Name	HS22080927-03
Data File Name	204SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T21:18:30-05:00
Sample Type	Sample
Dilution	1
Comment	DOD TW 182759
ISTD Ref FileName	159CALB.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	8.721	8.721	3.42	151380	0.01	2000	
Be	9	1	No Gas	0.200	0.200	1.54	685	0.03	2000	
V	51	2	He	1.501	1.501	3.22	11967	0.01	2000	
Cr	52	2	He	1.116	1.116	2.99	9277	0.01	2000	
Fe	56	2	He	390.209	390.209	1.43	2642470	0.01	200000	
Se	78	2	He	0.214	0.214	38.72	156	0.14	2000	
As	75	2	He	0.170	0.170	3.43	326	0.05	2000	
Ca	44	2	He	1266.487	1266.487	1.07	40119	3.16	200000	
Na	23	2	He	15073.547	15073.547	0.28	16312520	0.09	200000	
Mg	24	2	He	927.598	927.598	0.29	554220	0.17	200000	
K	39	2	He	303.212	303.212	1.02	245188	0.12	200000	
Mn	55	2	He	10.561	10.561	1.75	49687	0.02	2000	
Co	59	2	He	1.357	1.357	4.12	17658	0.01	2000	
Ni	60	2	He	3.144	3.144	2.65	11975	0.03	2000	
Cu	63	2	He	2.875	2.875	4.32	31951	0.01	2000	
Zn	66	2	He	13.490	13.490	0.51	20973	0.06	2000	
Al	27	2	He	364.568	364.568	0.39	98542	0.37	2000	
B	11	1	No Gas	13.214	13.214	5.73	32683	0.04	2000	
Al	27	1	No Gas	487.423	487.423	39.72	8057201	0.01	2000	
Si	28	1	No Gas	17708.897	17708.897	1.30	130620021	0.01	2000	>LDR
Ag	107	1	No Gas	-0.016	-0.016	-12.49	370	0.00	2000	
Cd	111	1	No Gas	0.656	0.656	11.75	2717	0.02	2000	
Sr	88	1	No Gas	26.462	26.462	1.93	986038	0.00	2000	
Mo	95	1	No Gas	0.011	0.011	30.04	130	0.01	2000	
Sn	118	1	No Gas	0.095	0.095	18.70	1884	0.01	2000	
Sb	121	1	No Gas	0.239	0.239	3.03	4457	0.01	2000	
Ba	137	1	No Gas	34.009	34.009	2.72	196255	0.02	2000	
Tl	205	1	No Gas	0.016	0.016	20.90	670	0.00	2000	
Tl	203	1	No Gas	0.010	0.010	27.55	213	0.00	2000	
Pb	208	1	No Gas	0.395	0.395	0.41	21535	0.00	2000	
U	238	1	No Gas	0.350	0.350	4.19	18287	0.00	2000	
Ca	43	2	He	1297.033	1297.033	11.50	2414	53.74	200000	
Sb	121	2	He	0.215	0.215	3.52	1864	0.01	2000	
Ti	47	2	He	5.188	5.188	30.33	1077	0.48	2000	
Cu	63	1	No Gas	2.989	2.989	1.76	56491	0.01	2000	
Zn	66	1	No Gas	13.544	13.544	1.03	58416	0.02	2000	
Se	82	1	No Gas	0.276	0.276	152.85	-287	-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	825978	2.53	839053	98.44	70	120	
Ge	72	2	He	613492	0.21	589070	104.15	70	120	
Ge	72	1	No Gas	2464654	1.42	2387222	103.24	70	120	
In	115	1	No Gas	2881017	1.73	2718732	105.97	70	120	

Sample Report

Bi	209	1	No Gas	2618957	0.57	2414089	108.49	70	120	

Sample Report

Sample Table

Sample Name	HS22080927-04
Data File Name	205SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T21:20:23-05:00
Sample Type	Sample
Dilution	1
Comment	DOD TW 182759
ISTD Ref FileName	159CALB.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	8.346	8.346	3.54	147122	0.01	2000	
Be	9	1	No Gas	0.496	0.496	83.51	1712	0.03	2000	
V	51	2	He	2.726	2.726	0.71	19553	0.01	2000	
Cr	52	2	He	2.854	2.854	0.40	22706	0.01	2000	
Fe	56	2	He	1434.180	1434.180	1.15	9631589	0.01	200000	
Se	78	2	He	0.054	0.054	80.72	142	0.04	2000	
As	75	2	He	0.409	0.409	6.73	592	0.07	2000	
Ca	44	2	He	1223.615	1223.615	3.48	38574	3.17	200000	
Na	23	2	He	14003.559	14003.559	0.23	15084452	0.09	200000	
Mg	24	2	He	961.381	961.381	0.24	571431	0.17	200000	
K	39	2	He	539.527	539.527	0.67	390341	0.14	200000	
Mn	55	2	He	14.102	14.102	1.44	65835	0.02	2000	
Co	59	2	He	1.621	1.621	3.37	20973	0.01	2000	
Ni	60	2	He	8.702	8.702	0.48	29780	0.03	2000	
Cu	63	2	He	4.897	4.897	0.70	50337	0.01	2000	
Zn	66	2	He	19.304	19.304	1.49	29710	0.06	2000	
Al	27	2	He	941.522	941.522	2.20	251873	0.37	2000	
B	11	1	No Gas	14.084	14.084	22.32	34663	0.04	2000	
Al	27	1	No Gas	909.209	909.209	4.32	15233143	0.01	2000	
Si	28	1	No Gas	16658.817	16658.817	2.90	124890938	0.01	2000	>LDR
Ag	107	1	No Gas	0.246	0.246	167.80	5993	0.00	2000	
Cd	111	1	No Gas	0.856	0.856	49.81	3588	0.02	2000	
Sr	88	1	No Gas	28.759	28.759	18.42	1079286	0.00	2000	
Mo	95	1	No Gas	0.305	0.305	133.58	2331	0.01	2000	
Sn	118	1	No Gas	0.500	0.500	85.74	7062	0.01	2000	
Sb	121	1	No Gas	0.524	0.524	83.89	9590	0.01	2000	
Ba	137	1	No Gas	52.412	52.412	2.85	303942	0.02	2000	
Tl	205	1	No Gas	0.282	0.282	139.89	10772	0.00	2000	
Tl	203	1	No Gas	0.260	0.260	142.43	4425	0.01	2000	
Pb	208	1	No Gas	1.632	1.632	19.80	86903	0.00	2000	
U	238	1	No Gas	0.598	0.598	54.24	31946	0.00	2000	
Ca	43	2	He	1236.504	1236.504	6.13	2290	53.99	200000	
Sb	121	2	He	0.256	0.256	6.47	2174	0.01	2000	
Ti	47	2	He	14.089	14.089	3.19	2910	0.48	2000	
Cu	63	1	No Gas	5.017	5.017	3.90	90225	0.01	2000	
Zn	66	1	No Gas	18.783	18.783	1.85	81970	0.02	2000	
Se	82	1	No Gas	0.033	0.033	2308.36	-347	-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	827746	2.28	839053	98.65	70	120	
Ge	72	2	He	610327	0.27	589070	103.61	70	120	
Ge	72	1	No Gas	2505762	2.93	2387222	104.97	70	120	
In	115	1	No Gas	2894634	1.97	2718732	106.47	70	120	

Sample Report

Bi	209	1	No Gas	2649874	2.34	2414089	109.77	70	120	

Sample Report

Sample Table

Sample Name	HS22080927-06
Data File Name	206SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T21:22:17-05:00
Sample Type	Sample
Dilution	1
Comment	DOD TW 182759
ISTD Ref FileName	159CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	28.209	28.209	3.64	381873	0.01	2000	
Be	9	1	No Gas	0.307	0.307	2.13	1022	0.03	2000	
V	51	2	He	1.320	1.320	2.97	10661	0.01	2000	
Cr	52	2	He	23.364	23.364	0.72	179856	0.01	2000	
Fe	56	2	He	21141.604	21141.604	0.60	140366758	0.02	200000	
Se	78	2	He	-0.052	-0.052	-371.39	132	-0.04	2000	
As	75	2	He	1.962	1.962	3.72	2314	0.08	2000	
Ca	44	2	He	10398.526	10398.526	0.24	320870	3.24	200000	
Na	23	2	He	114070.831	114070.831	0.24	120815945	0.09	200000	
Mg	24	2	He	6858.815	6858.815	1.17	4032629	0.17	200000	
K	39	2	He	2189.129	2189.129	1.75	1397884	0.16	200000	
Mn	55	2	He	117.926	117.926	0.72	541203	0.02	2000	
Co	59	2	He	0.138	0.138	15.16	1800	0.01	2000	
Ni	60	2	He	2.327	2.327	3.19	9190	0.03	2000	
Cu	63	2	He	2.221	2.221	0.89	25514	0.01	2000	
Zn	66	2	He	4.280	4.280	1.68	6785	0.06	2000	
Al	27	2	He	18.902	18.902	7.53	5811	0.33	2000	
B	11	1	No Gas	105.707	105.707	4.07	218895	0.05	2000	
Al	27	1	No Gas	16.513	16.513	1.40	316053	0.01	2000	
Si	28	1	No Gas	16753.917	16753.917	1.98	121337895	0.01	2000	>LDR
Ag	107	1	No Gas	-0.018	-0.018	-6.29	317	-0.01	2000	
Cd	111	1	No Gas	0.113	0.113	30.48	460	0.02	2000	
Sr	88	1	No Gas	341.851	341.851	2.25	12190895	0.00	2000	
Mo	95	1	No Gas	1.792	1.792	4.05	12610	0.01	2000	
Sn	118	1	No Gas	0.091	0.091	8.00	1763	0.01	2000	
Sb	121	1	No Gas	0.039	0.039	10.27	1040	0.00	2000	
Ba	137	1	No Gas	317.121	317.121	2.25	1753001	0.02	2000	
Tl	205	1	No Gas	0.002	0.002	46.16	143	0.00	2000	
Tl	203	1	No Gas	0.000	0.000	807.98	43	0.00	2000	
Pb	208	1	No Gas	0.187	0.187	1.04	10252	0.00	2000	
U	238	1	No Gas	0.043	0.043	9.81	2164	0.00	2000	
Ca	43	2	He	10935.351	10935.351	1.54	19858	55.07	200000	
Sb	121	2	He	0.035	0.035	13.62	453	0.01	2000	
Ti	47	2	He	0.701	0.701	38.27	143	0.49	2000	
Cu	63	1	No Gas	2.767	2.767	1.57	51999	0.01	2000	
Zn	66	1	No Gas	4.225	4.225	1.86	18553	0.02	2000	
Se	82	1	No Gas	2.099	2.099	13.75	123	1.71	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	806551	3.61	839053	96.13	70	120	
Ge	72	2	He	604043	0.31	589070	102.54	70	120	
Ge	72	1	No Gas	2419925	1.80	2387222	101.37	70	120	
In	115	1	No Gas	2762219	0.37	2718732	101.60	70	120	
Bi	209	1	No Gas	2491034	1.53	2414089	103.19	70	120	

Sample Report

Sample Table

Sample Name	HS22080927-09
Data File Name	207SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T21:24:11-05:00
Sample Type	Sample
Dilution	1
Comment	DOD TW 182759
ISTD Ref FileName	159CALB.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	38.686	38.686	5.12	507206	0.01	2000	
Be	9	1	No Gas	0.023	0.023	19.70	80	0.03	2000	
V	51	2	He	-0.257	-0.257	-4.92	889	-0.03	2000	
Cr	52	2	He	0.790	0.790	2.24	6435	0.01	2000	
Fe	56	2	He	56423.282	56423.282	0.94	363679235	0.02	200000	
Se	78	2	He	-0.288	-0.288	-97.16	109	-0.26	2000	
As	75	2	He	1.374	1.374	4.69	1611	0.09	2000	
Ca	44	2	He	46113.141	46113.141	2.10	1379766	3.34	200000	
Na	23	2	He	128022.959	128022.959	0.54	131631001	0.10	200000	
Mg	24	2	He	21767.775	21767.775	0.74	12424329	0.18	200000	
K	39	2	He	2929.126	2929.126	0.53	1797752	0.16	200000	
Mn	55	2	He	1204.633	1204.633	0.28	5363276	0.02	2000	
Co	59	2	He	0.201	0.201	7.80	2527	0.01	2000	
Ni	60	2	He	0.555	0.555	9.81	3451	0.02	2000	
Cu	63	2	He	0.063	0.063	17.92	5748	0.00	2000	
Zn	66	2	He	6.373	6.373	2.01	9647	0.07	2000	
Al	27	2	He	8.722	8.722	6.37	3034	0.29	2000	
B	11	1	No Gas	29.987	29.987	6.27	65741	0.05	2000	
Al	27	1	No Gas	7.580	7.580	0.99	170513	0.00	2000	
Si	28	1	No Gas	19718.188	19718.188	1.71	141607125	0.01	2000	>LDR
Ag	107	1	No Gas	-0.023	-0.023	-2.45	210	-0.01	2000	
Cd	111	1	No Gas	0.276	0.276	8.24	1100	0.03	2000	
Sr	88	1	No Gas	784.459	784.459	1.20	27846156	0.00	2000	
Mo	95	1	No Gas	0.022	0.022	26.89	200	0.01	2000	
Sn	118	1	No Gas	0.124	0.124	14.76	2144	0.01	2000	
Sb	121	1	No Gas	0.053	0.053	20.95	1270	0.00	2000	
Ba	137	1	No Gas	1098.107	1098.107	1.81	6042188	0.02	2000	
Tl	205	1	No Gas	0.002	0.002	19.23	117	0.00	2000	
Tl	203	1	No Gas	0.002	0.002	176.22	77	0.00	2000	
Pb	208	1	No Gas	0.280	0.280	2.94	14374	0.00	2000	
U	238	1	No Gas	0.007	0.007	19.27	343	0.00	2000	
Ca	43	2	He	42040.195	42040.195	1.53	74052	56.77	200000	
Sb	121	2	He	0.065	0.065	2.63	660	0.01	2000	
Ti	47	2	He	0.201	0.201	24.90	40	0.50	2000	
Cu	63	1	No Gas	0.782	0.782	4.06	20906	0.00	2000	
Zn	66	1	No Gas	6.238	6.238	2.42	26720	0.02	2000	
Se	82	1	No Gas	0.758	0.758	242.59	-174	-0.44	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	806198	4.40	839053	96.08	70	120	
Ge	72	2	He	586465	0.81	589070	99.56	70	120	
Ge	72	1	No Gas	2400150	0.26	2387222	100.54	70	120	
In	115	1	No Gas	2749782	0.79	2718732	101.14	70	120	
Bi	209	1	No Gas	2411736	1.26	2414089	99.90	70	120	

Sample Report

Sample Table

Sample Name	HS22080927-10
Data File Name	208SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T21:26:07-05:00
Sample Type	Sample
Dilution	1
Comment	DOD TW 182759
ISTD Ref FileName	159CALB.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	55.354	55.354	0.11	698608	0.01	2000	
Be	9	1	No Gas	0.750	0.750	9.20	2462	0.03	2000	
V	51	2	He	1.765	1.765	2.30	13263	0.01	2000	
Cr	52	2	He	168.246	168.246	2.31	1276989	0.01	2000	
Fe	56	2	He	125388.187	125388.187	0.88	823054308	0.02	200000	
Se	78	2	He	-0.082	-0.082	-178.83	128	-0.06	2000	
As	75	2	He	7.200	7.200	1.55	8049	0.09	2000	
Ca	44	2	He	68674.658	68674.658	1.40	2092531	3.28	200000	
Na	23	2	He	159990.711	159990.711	1.02	167494221	0.10	200000	
Mg	24	2	He	39248.546	39248.546	1.88	22812700	0.17	200000	
K	39	2	He	3784.194	3784.194	1.19	2349158	0.16	200000	
Mn	55	2	He	2456.263	2456.263	1.69	11135550	0.02	2000	>LDR
Co	59	2	He	0.267	0.267	2.61	3400	0.01	2000	
Ni	60	2	He	8.519	8.519	1.33	28564	0.03	2000	
Cu	63	2	He	4.299	4.299	2.62	43885	0.01	2000	
Zn	66	2	He	7.072	7.072	3.61	10865	0.07	2000	
Al	27	2	He	49.789	49.789	2.28	13804	0.36	2000	
B	11	1	No Gas	32.737	32.737	0.42	70446	0.05	2000	
Al	27	1	No Gas	47.133	47.133	3.08	804415	0.01	2000	
Si	28	1	No Gas	21583.030	21583.030	2.45	155119331	0.01	2000	>LDR
Ag	107	1	No Gas	-0.021	-0.021	-14.46	247	-0.01	2000	
Cd	111	1	No Gas	0.116	0.116	9.43	460	0.03	2000	
Sr	88	1	No Gas	1480.944	1480.944	0.60	51845499	0.00	2000	
Mo	95	1	No Gas	9.308	9.308	1.15	64104	0.01	2000	
Sn	118	1	No Gas	0.192	0.192	11.23	2917	0.01	2000	
Sb	121	1	No Gas	0.125	0.125	11.44	2457	0.01	2000	
Ba	137	1	No Gas	1502.307	1502.307	0.91	8152650	0.02	2000	
Tl	205	1	No Gas	0.003	0.003	20.20	160	0.00	2000	
Tl	203	1	No Gas	0.002	0.002	32.72	70	0.00	2000	
Pb	208	1	No Gas	1.571	1.571	1.30	75921	0.00	2000	
U	238	1	No Gas	0.258	0.258	4.20	12413	0.00	2000	
Ca	43	2	He	64029.934	64029.934	1.69	114846	55.75	200000	
Sb	121	2	He	0.117	0.117	13.09	1070	0.01	2000	
Ti	47	2	He	1.599	1.599	17.05	323	0.49	2000	
Cu	63	1	No Gas	5.034	5.034	1.47	86719	0.01	2000	
Zn	66	1	No Gas	6.670	6.670	1.21	28537	0.02	2000	
Se	82	1	No Gas	1.451	1.451	83.90	-21	-6.84	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	795287	0.56	839053	94.78	70	120	
Ge	72	2	He	597245	0.60	589070	101.39	70	120	
Ge	72	1	No Gas	2403221	1.99	2387222	100.67	70	120	
In	115	1	No Gas	2711808	0.26	2718732	99.75	70	120	
Bi	209	1	No Gas	2411736	0.34	2414089	99.90	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	209_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T21:28:03-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	159CALB.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	99.875	1.696	1186545	2.75	100	99.9	90	110	
Be	9	1	No Gas	96.271	1.372	305136	1.06	100	96.3	90	110	
V	51	2	He	100.408	0.462	594869	0.29	100	100.4	90	110	
Cr	52	2	He	96.798	0.604	709740	0.62	100	96.8	90	110	
Fe	56	2	He	10021.355	0.900	63531696	0.57	10000	100.2	90	110	
Se	78	2	He	98.066	0.167	7752	0.48	100	98.1	90	110	
As	75	2	He	99.896	0.320	106231	0.67	100	99.9	90	110	
Ca	44	2	He	9695.725	0.877	285687	0.84	10000	97.0	90	110	
Na	23	2	He	10026.572	1.852	10236469	2.07	10000	100.3	90	110	
Mg	24	2	He	9956.848	0.950	5589258	1.22	10000	99.6	90	110	
K	39	2	He	9817.279	0.803	5800764	0.45	10000	98.2	90	110	
Mn	55	2	He	98.741	0.216	432754	0.48	100	98.7	90	110	
Co	59	2	He	100.333	1.091	1225067	1.02	100	100.3	90	110	
Ni	60	2	He	100.422	0.199	306756	0.22	100	100.4	90	110	
Cu	63	2	He	96.286	0.779	840050	1.05	100	96.3	90	110	
Zn	66	2	He	100.247	2.054	144429	2.40	100	100.2	90	110	
Al	27	2	He	95.582	2.486	24869	2.68	100	95.6	90	110	
B	11	1	No Gas	489.098	2.143	948838	0.55	500	97.8	90	110	
Al	27	1	No Gas	96.781	0.501	1561877	1.43	100	96.8	90	110	
Si	28	1	No Gas	487.293	0.959	3750057	1.35	5000	9.7	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	100.984	0.569	1982954	0.81	100	101.0	90	110	
Cd	111	1	No Gas	97.800	0.723	378591	0.40	100	97.8	90	110	
Sr	88	1	No Gas	98.968	0.033	3450390	0.38	100	99.0	90	110	
Mo	95	1	No Gas	99.155	1.629	679225	1.36	100	99.2	90	110	
Sn	118	1	No Gas	94.130	2.393	1105346	2.05	100	94.1	90	110	
Sb	121	1	No Gas	102.737	1.439	1662384	0.16	100	102.7	90	110	
Ba	137	1	No Gas	98.771	1.316	533706	0.97	100	98.8	90	110	
Tl	205	1	No Gas	102.032	1.111	3445515	1.00	100	102.0	90	110	
Tl	203	1	No Gas	100.185	0.553	1499044	1.31	100	100.2	90	110	
Pb	208	1	No Gas	97.302	0.611	4631564	1.02	100	97.3	90	110	
U	238	1	No Gas	99.628	0.722	4789984	0.93	100	99.6	90	110	
Ca	43	2	He	9763.540	1.568	16931	1.30	10000	97.6	90	110	
Sb	121	2	He	96.082	0.894	704053	0.96	100	96.1	90	110	
Ti	47	2	He	97.079	2.774	18950	2.67	100	97.1	90	110	
Cu	63	1	No Gas	100.261	0.620	1523093	1.94	100	100.3	90	110	
Se	82	1	No Gas	100.343	1.983	21307	2.49	100	100.3	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	769485	2.43	839053	91.71	70	120	
Ge	72	2	He	576736	0.35	589070	97.91	70	120	
Ge	72	1	No Gas	2345388	1.43	2387222	98.25	70	120	
In	115	1	No Gas	2699175	0.37	2718732	99.28	70	120	
Bi	209	1	No Gas	2406764	0.92	2414089	99.70	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	210_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T21:29:51-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	159CALB.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	0.238	21.3	43462	1.1	0.5	
Be	9	1	No Gas	0.022	81.3	70	75.6	0.5	
V	51	2	He	-0.288	-3.7	677	9.6	2.5	
Cr	52	2	He	0.092	33.0	1187	18.9	2.5	
Fe	56	2	He	6.080	8.8	48110	7.4	100	
Se	78	2	He	-0.082	-287.0	121	13.9	2	
As	75	2	He	-0.038	-48.0	83	22.3	2.5	
Ca	44	2	He	0.719	92.3	467	4.5	100	
Na	23	2	He	12.644	5.7	116188	0.8	100	
Mg	24	2	He	2.454	11.3	1690	9.3	100	
K	39	2	He	-2.589	-66.9	50245	1.3	100	
Mn	55	2	He	0.106	10.9	920	5.8	2.5	
Co	59	2	He	0.012	9.4	177	8.6	2.5	
Ni	60	2	He	-0.473	-3.1	263	17.1	2.5	
Cu	63	2	He	-0.487	-0.9	857	4.1	2	
Zn	66	2	He	0.210	49.2	613	22.8	2.5	
Al	27	2	He	-1.795	-18.2	327	24.9	5	
B	11	1	No Gas	9.383	8.5	22939	9.1	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-1.857	-3.5	19023	5.0	5	
Si	28	1	No Gas	-7.665	-19.4	285248	3.3	10	
Ag	107	1	No Gas	-0.013	-48.3	420	29.0	2.5	
Cd	111	1	No Gas	0.009	198.3	47	155.0	1	
Sr	88	1	No Gas	0.056	221.1	4028	110.6	2.5	
Mo	95	1	No Gas	0.012	130.0	133	83.6	2.5	
Sn	118	1	No Gas	0.037	40.0	1107	16.3	5	
Sb	121	1	No Gas	0.031	16.6	877	9.1	2.5	
Ba	137	1	No Gas	0.079	159.4	677	102.9	2.5	
Tl	205	1	No Gas	0.027	29.7	980	26.6	1	
Tl	203	1	No Gas	0.022	34.9	380	29.9	1	
Pb	208	1	No Gas	0.016	94.9	1817	39.9	2.5	
U	238	1	No Gas	0.010	132.3	487	130.6	2.5	
Ca	43	2	He	2.724	126.7	27	21.7	100	
Sb	121	2	He	0.034	30.7	417	18.6	2.5	
Ti	47	2	He	0.017	173.2	3	173.2	2.5	
Cu	63	1	No Gas	-0.459	-3.4	1687	13.4	2.5	
Se	82	1	No Gas	-0.249	-300.0	-387	-41.9	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	764040	2.44	839053	91.06	70	120	
Ge	72	2	He	563204	0.78	589070	95.61	70	120	
Ge	72	1	No Gas	2346682	0.41	2387222	98.30	70	120	
In	115	1	No Gas	2761945	0.42	2718732	101.59	70	120	
Bi	209	1	No Gas	2446067	1.20	2414089	101.32	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	219_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T21:46:49-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	159CALB.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	100.251	1.802	1166486	1.27	100	100.3	90	110	
Be	9	1	No Gas	97.713	0.972	303433	0.66	100	97.7	90	110	
V	51	2	He	99.800	1.628	588775	0.90	100	99.8	90	110	
Cr	52	2	He	96.520	1.173	704719	0.46	100	96.5	90	110	
Fe	56	2	He	9951.447	1.619	62821826	0.80	10000	99.5	90	110	
Se	78	2	He	96.753	1.202	7618	1.12	100	96.8	90	110	
As	75	2	He	99.378	1.295	105233	0.53	100	99.4	90	110	
Ca	44	2	He	9681.416	0.737	284071	0.33	10000	96.8	90	110	
Na	23	2	He	9821.776	0.560	9987876	1.39	10000	98.2	90	110	
Mg	24	2	He	9918.308	2.997	5543458	2.17	10000	99.2	90	110	
K	39	2	He	9734.741	1.265	5728289	0.73	10000	97.3	90	110	
Mn	55	2	He	98.455	0.836	429689	0.17	100	98.5	90	110	
Co	59	2	He	100.997	2.016	1227944	1.40	100	101.0	90	110	
Ni	60	2	He	100.288	1.394	305055	0.58	100	100.3	90	110	
Cu	63	2	He	96.255	0.820	836245	0.33	100	96.3	90	110	
Zn	66	2	He	101.139	0.712	145092	0.13	100	101.1	90	110	
Al	27	2	He	94.898	2.015	24595	2.73	100	94.9	90	110	
B	11	1	No Gas	485.612	1.718	923250	2.47	500	97.1	90	110	
Al	27	1	No Gas	98.260	2.764	1563419	1.68	100	98.3	90	110	
Si	28	1	No Gas	492.206	2.651	3733083	1.51	5000	9.8	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	100.998	1.290	1951227	0.59	100	101.0	90	110	
Cd	111	1	No Gas	98.075	0.820	373556	0.91	100	98.1	90	110	
Sr	88	1	No Gas	99.806	2.745	3422891	1.02	100	99.8	90	110	
Mo	95	1	No Gas	100.098	1.466	674639	0.56	100	100.1	90	110	
Sn	118	1	No Gas	93.250	1.022	1077455	0.76	100	93.3	90	110	
Sb	121	1	No Gas	101.947	1.615	1627491	1.14	100	101.9	90	110	
Ba	137	1	No Gas	99.397	1.190	528451	0.89	100	99.4	90	110	
Tl	205	1	No Gas	104.073	1.471	3411288	0.79	100	104.1	90	110	
Tl	203	1	No Gas	101.943	1.472	1480469	0.11	100	101.9	90	110	
Pb	208	1	No Gas	98.475	1.256	4549706	0.43	100	98.5	90	110	
U	238	1	No Gas	100.144	2.182	4673322	1.72	100	100.1	90	110	
Ca	43	2	He	9604.237	3.053	16587	3.39	10000	96.0	90	110	
Sb	121	2	He	95.412	1.583	696173	0.77	100	95.4	90	110	
Ti	47	2	He	97.953	1.247	19040	0.57	100	98.0	90	110	
Cu	63	1	No Gas	101.003	0.510	1513552	0.65	100	101.0	90	110	
Se	82	1	No Gas	98.395	2.359	20603	1.49	100	98.4	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	753774	1.05	839053	89.84	70	120	
Ge	72	2	He	574337	0.84	589070	97.50	70	120	
Ge	72	1	No Gas	2313852	1.13	2387222	96.93	70	120	
In	115	1	No Gas	2656021	1.71	2718732	97.69	70	120	
Bi	209	1	No Gas	2336314	1.42	2414089	96.78	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	220_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T21:48:36-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	159CALB.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	0.220	9.2	44323	2.1	0.5	
Be	9	1	No Gas	0.008	94.4	28	83.4	0.5	
V	51	2	He	-0.298	-2.7	642	6.4	2.5	
Cr	52	2	He	0.054	33.3	950	14.9	2.5	
Fe	56	2	He	0.153	25.2	11812	2.3	100	
Se	78	2	He	0.210	108.5	148	12.9	2	
As	75	2	He	-0.011	-148.8	114	16.6	2.5	
Ca	44	2	He	-3.068	-120.5	370	29.2	100	
Na	23	2	He	6.388	19.7	113852	1.8	100	
Mg	24	2	He	0.175	82.3	457	18.6	100	
K	39	2	He	-1.011	-64.9	52931	1.1	100	
Mn	55	2	He	0.000	-4142.5	480	12.7	2.5	
Co	59	2	He	0.006	45.9	107	32.9	2.5	
Ni	60	2	He	-0.476	-1.7	263	8.8	2.5	
Cu	63	2	He	-0.491	-0.4	857	1.3	2	
Zn	66	2	He	0.149	35.6	547	14.0	2.5	
Al	27	2	He	-1.852	-3.8	323	6.4	5	
B	11	1	No Gas	7.271	13.2	19320	9.1	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-1.850	-2.1	18953	3.5	5	
Si	28	1	No Gas	-6.573	-1.7	290162	0.7	10	
Ag	107	1	No Gas	-0.016	-25.2	360	21.7	2.5	
Cd	111	1	No Gas	0.000	-3607.9	10	100.0	1	
Sr	88	1	No Gas	-0.027	-15.4	1057	13.3	2.5	
Mo	95	1	No Gas	0.004	194.1	73	67.3	2.5	
Sn	118	1	No Gas	0.038	18.8	1130	8.4	5	
Sb	121	1	No Gas	0.141	16.8	2630	14.6	2.5	
Ba	137	1	No Gas	-0.015	-61.6	157	32.1	2.5	
Tl	205	1	No Gas	0.025	47.6	920	43.8	1	
Tl	203	1	No Gas	0.024	61.2	407	54.5	1	
Pb	208	1	No Gas	0.004	34.5	1227	5.5	2.5	
U	238	1	No Gas	0.003	22.8	173	23.3	2.5	
Ca	43	2	He	-7.386	-132.9	10	173.2	100	
Sb	121	2	He	0.132	13.8	1153	11.5	2.5	
Ti	47	2	He	0.017	173.2	3	173.2	2.5	
Cu	63	1	No Gas	-0.445	-3.4	1874	12.5	2.5	
Se	82	1	No Gas	0.796	80.3	-160	-85.0	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	782739	1.69	839053	93.29	70	120	
Ge	72	2	He	582806	0.94	589070	98.94	70	120	
Ge	72	1	No Gas	2324563	0.47	2387222	97.38	70	120	
In	115	1	No Gas	2778088	0.94	2718732	102.18	70	120	
Bi	209	1	No Gas	2442779	0.91	2414089	101.19	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	256_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T23:13:05-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	159CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	101.649	2.319	1149107	1.24	100	101.6	90	110	
Be	9	1	No Gas	99.536	1.405	300452	0.49	100	99.5	90	110	
V	51	2	He	99.826	0.922	617278	1.05	100	99.8	90	110	
Cr	52	2	He	96.607	0.574	739280	0.60	100	96.6	90	110	
Fe	56	2	He	9977.458	1.301	66016559	1.15	10000	99.8	90	110	
Se	78	2	He	97.239	1.011	8023	1.09	100	97.2	90	110	
As	75	2	He	99.207	0.473	110105	0.12	100	99.2	90	110	
Ca	44	2	He	9788.883	1.473	301029	1.54	10000	97.9	90	110	
Na	23	2	He	9883.454	1.008	10532094	0.50	10000	98.8	90	110	
Mg	24	2	He	9808.681	1.151	5746508	1.21	10000	98.1	90	110	
K	39	2	He	9902.702	1.148	6106339	0.94	10000	99.0	90	110	
Mn	55	2	He	98.834	0.968	452087	1.14	100	98.8	90	110	
Co	59	2	He	100.256	1.192	1277623	1.33	100	100.3	90	110	
Ni	60	2	He	100.116	0.260	319185	0.35	100	100.1	90	110	
Cu	63	2	He	95.305	0.466	867848	0.31	100	95.3	90	110	
Zn	66	2	He	100.435	0.288	151013	0.38	100	100.4	90	110	
Al	27	2	He	99.170	2.435	26896	1.94	100	99.2	90	110	
B	11	1	No Gas	507.307	1.191	937227	0.72	500	101.5	90	110	
Al	27	1	No Gas	98.589	2.473	1600433	1.06	100	98.6	90	110	
Si	28	1	No Gas	480.323	0.852	3725797	0.68	5000	9.6	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	101.337	0.600	1990595	0.50	100	101.3	90	110	
Cd	111	1	No Gas	97.668	0.813	378218	0.11	100	97.7	90	110	
Sr	88	1	No Gas	100.379	1.570	3500672	1.03	100	100.4	90	110	
Mo	95	1	No Gas	99.278	0.739	680331	0.24	100	99.3	90	110	
Sn	118	1	No Gas	93.143	1.982	1094209	1.86	100	93.1	90	110	
Sb	121	1	No Gas	101.572	3.239	1654229	1.94	100	101.6	90	110	
Ba	137	1	No Gas	98.045	1.295	529986	1.14	100	98.0	90	110	
Tl	205	1	No Gas	100.079	1.137	3391419	0.83	100	100.1	90	110	
Tl	203	1	No Gas	99.590	1.322	1495282	1.04	100	99.6	90	110	
Pb	208	1	No Gas	96.466	0.642	4607810	0.24	100	96.5	90	110	
U	238	1	No Gas	99.470	2.081	4798938	1.74	100	99.5	90	110	
Ca	43	2	He	9730.364	4.113	17612	4.29	10000	97.3	90	110	
Sb	121	2	He	93.174	1.061	712558	0.77	100	93.2	90	110	
Ti	47	2	He	100.249	3.389	20426	3.72	100	100.2	90	110	
Cu	63	1	No Gas	100.378	0.818	1535055	2.12	100	100.4	90	110	
Se	82	1	No Gas	98.656	5.178	21086	5.83	100	98.7	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	732775	1.76	839053	87.33	70	120	
Ge	72	2	He	601930	0.50	589070	102.18	70	120	
Ge	72	1	No Gas	2361013	1.34	2387222	98.90	70	120	
In	115	1	No Gas	2700222	0.78	2718732	99.32	70	120	
Bi	209	1	No Gas	2415174	0.41	2414089	100.04	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	257_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T23:14:52-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	159CALB.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	0.057	213.5	41934	1.5	0.5	
Be	9	1	No Gas	0.003	25.8	13	21.7	0.5	
V	51	2	He	-0.309	-2.6	589	9.0	2.5	
Cr	52	2	He	0.020	23.2	710	4.2	2.5	
Fe	56	2	He	-0.154	-12.7	10067	1.9	100	
Se	78	2	He	-0.187	-64.2	119	8.3	2	
As	75	2	He	-0.053	-23.9	71	18.9	2.5	
Ca	44	2	He	5.534	32.2	640	7.8	100	
Na	23	2	He	-10.838	-6.1	98446	0.1	100	
Mg	24	2	He	-0.003	-449.3	363	1.6	100	
K	39	2	He	2.622	50.3	56332	1.1	100	
Mn	55	2	He	0.007	38.0	523	2.9	2.5	
Co	59	2	He	0.001	177.1	47	61.9	2.5	
Ni	60	2	He	-0.513	-2.4	153	24.7	2.5	
Cu	63	2	He	-0.259	-10.7	2954	8.1	2	
Zn	66	2	He	0.024	204.1	373	20.1	2.5	
Al	27	2	He	0.425	56.8	923	6.2	5	
B	11	1	No Gas	5.978	14.0	16610	10.6	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.412	11.3	56037	0.8	5	
Si	28	1	No Gas	-10.766	-3.3	270840	2.0	10	
Ag	107	1	No Gas	-0.018	-9.8	307	11.5	2.5	
Cd	111	1	No Gas	0.001	202.6	13	43.3	1	
Sr	88	1	No Gas	0.011	42.2	2457	5.3	2.5	
Mo	95	1	No Gas	0.009	42.3	113	22.2	2.5	
Sn	118	1	No Gas	0.049	11.3	1287	4.7	5	
Sb	121	1	No Gas	0.064	17.5	1460	14.2	2.5	
Ba	137	1	No Gas	0.002	75.5	257	2.2	2.5	
Tl	205	1	No Gas	0.020	41.7	753	37.7	1	
Tl	203	1	No Gas	0.018	36.7	323	31.6	1	
Pb	208	1	No Gas	0.005	27.4	1307	5.8	2.5	
U	238	1	No Gas	0.003	8.1	140	7.1	2.5	
Ca	43	2	He	-3.766	-169.1	17	69.3	100	
Sb	121	2	He	0.046	12.3	533	7.8	2.5	
Ti	47	2	He	0.050	173.2	10	173.2	2.5	
Cu	63	1	No Gas	-0.222	-8.5	5408	4.4	2.5	
Se	82	1	No Gas	0.620	282.8	-205	-188.1	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	774106	2.32	839053	92.26	70	120	
Ge	72	2	He	596058	0.67	589070	101.19	70	120	
Ge	72	1	No Gas	2411431	1.31	2387222	101.01	70	120	
In	115	1	No Gas	2829173	1.84	2718732	104.06	70	120	
Bi	209	1	No Gas	2505870	0.91	2414089	103.80	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	260_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T23:20:25-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	159CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	101.291	3.466	1173590	0.56	100	101.3	90	110	
Be	9	1	No Gas	99.191	2.290	306897	1.41	100	99.2	90	110	
V	51	2	He	99.641	0.820	617673	0.47	100	99.6	90	110	
Cr	52	2	He	96.126	0.896	737447	0.62	100	96.1	90	110	
Fe	56	2	He	9888.533	0.323	65594657	0.62	10000	98.9	90	110	
Se	78	2	He	97.577	0.844	8071	1.44	100	97.6	90	110	
As	75	2	He	98.709	0.958	109829	0.82	100	98.7	90	110	
Ca	44	2	He	9769.640	0.930	301212	1.64	10000	97.7	90	110	
Na	23	2	He	9888.434	0.339	10564281	0.66	10000	98.9	90	110	
Mg	24	2	He	9789.785	1.209	5749753	0.92	10000	97.9	90	110	
K	39	2	He	9789.280	1.602	6052099	1.16	10000	97.9	90	110	
Mn	55	2	He	98.426	0.515	451356	0.76	100	98.4	90	110	
Co	59	2	He	100.465	0.438	1283536	1.12	100	100.5	90	110	
Ni	60	2	He	99.846	0.835	319128	0.50	100	99.8	90	110	
Cu	63	2	He	95.284	0.892	869829	0.40	100	95.3	90	110	
Zn	66	2	He	99.209	0.216	149553	1.01	100	99.2	90	110	
Al	27	2	He	97.783	1.008	26599	0.27	100	97.8	90	110	
B	11	1	No Gas	501.180	4.104	948719	1.39	500	100.2	90	110	
Al	27	1	No Gas	98.002	1.198	1604549	1.18	100	98.0	90	110	
Si	28	1	No Gas	478.369	1.234	3742685	1.22	5000	9.6	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	100.773	1.456	2008550	1.88	100	100.8	90	110	
Cd	111	1	No Gas	98.668	1.445	387667	0.78	100	98.7	90	110	
Sr	88	1	No Gas	99.502	1.361	3520770	0.36	100	99.5	90	110	
Mo	95	1	No Gas	99.370	1.323	690889	0.43	100	99.4	90	110	
Sn	118	1	No Gas	94.799	3.209	1129775	2.34	100	94.8	90	110	
Sb	121	1	No Gas	101.325	1.789	1664235	2.01	100	101.3	90	110	
Ba	137	1	No Gas	99.303	1.202	544619	0.43	100	99.3	90	110	
Tl	205	1	No Gas	102.639	0.623	3446383	1.09	100	102.6	90	110	
Tl	203	1	No Gas	101.165	1.602	1504953	1.11	100	101.2	90	110	
Pb	208	1	No Gas	98.646	0.617	4668666	0.48	100	98.6	90	110	
U	238	1	No Gas	100.807	0.463	4819062	0.87	100	100.8	90	110	
Ca	43	2	He	9644.845	3.830	17501	4.12	10000	96.4	90	110	
Sb	121	2	He	93.683	0.379	718271	0.52	100	93.7	90	110	
Ti	47	2	He	97.388	2.165	19891	2.30	100	97.4	90	110	
Cu	63	1	No Gas	102.017	0.388	1572647	0.55	100	102.0	90	110	
Se	82	1	No Gas	103.471	1.665	22308	0.77	100	103.5	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	751262	2.87	839053	89.54	70	120	
Ge	72	2	He	603458	0.89	589070	102.44	70	120	
Ge	72	1	No Gas	2380405	0.93	2387222	99.71	70	120	
In	115	1	No Gas	2739734	1.00	2718732	100.77	70	120	
Bi	209	1	No Gas	2393013	0.59	2414089	99.13	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	261_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T23:22:12-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	159CALB.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	-0.009	-622.0	41545	0.3	0.5	
Be	9	1	No Gas	0.008	20.1	30	16.7	0.5	
V	51	2	He	-0.304	-2.0	619	6.1	2.5	
Cr	52	2	He	0.025	36.1	750	9.2	2.5	
Fe	56	2	He	-0.083	-39.8	10528	2.2	100	
Se	78	2	He	-0.410	-34.3	101	11.2	2	
As	75	2	He	-0.061	-11.6	62	12.4	2.5	
Ca	44	2	He	1.598	200.5	520	18.5	100	
Na	23	2	He	-13.227	-5.5	95868	0.8	100	
Mg	24	2	He	0.038	27.9	387	1.5	100	
K	39	2	He	-0.675	-226.8	54290	1.7	100	
Mn	55	2	He	0.026	78.0	610	15.0	2.5	
Co	59	2	He	0.002	50.4	53	21.7	2.5	
Ni	60	2	He	-0.511	-2.2	160	22.5	2.5	
Cu	63	2	He	-0.325	-6.3	2357	8.0	2	
Zn	66	2	He	0.011	312.1	353	14.2	2.5	
Al	27	2	He	0.684	38.4	990	7.0	5	
B	11	1	No Gas	8.784	11.4	22258	10.1	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.422	15.1	56374	0.7	5	
Si	28	1	No Gas	-11.478	-6.8	266504	0.2	10	
Ag	107	1	No Gas	-0.023	-6.6	213	13.5	2.5	
Cd	111	1	No Gas	0.000	-4127.0	10	100.0	1	
Sr	88	1	No Gas	0.013	21.1	2507	2.6	2.5	
Mo	95	1	No Gas	0.007	49.1	100	26.5	2.5	
Sn	118	1	No Gas	0.052	13.0	1310	7.6	5	
Sb	121	1	No Gas	0.058	17.1	1360	10.4	2.5	
Ba	137	1	No Gas	0.005	256.9	273	27.7	2.5	
Tl	205	1	No Gas	0.026	23.4	967	20.9	1	
Tl	203	1	No Gas	0.025	16.7	420	14.5	1	
Pb	208	1	No Gas	0.017	7.4	1870	2.4	2.5	
U	238	1	No Gas	0.004	51.7	180	50.0	2.5	
Ca	43	2	He	-1.866	-0.9	20	0.0	100	
Sb	121	2	He	0.055	28.9	600	20.3	2.5	
Ti	47	2	He	0.116	89.2	23	89.2	2.5	
Cu	63	1	No Gas	-0.287	-4.7	4414	2.8	2.5	
Se	82	1	No Gas	0.181	525.1	-306	-70.3	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	780755	1.54	839053	93.05	70	120	
Ge	72	2	He	595518	0.15	589070	101.09	70	120	
Ge	72	1	No Gas	2419405	1.94	2387222	101.35	70	120	
In	115	1	No Gas	2810553	1.39	2718732	103.38	70	120	
Bi	209	1	No Gas	2465032	0.86	2414089	102.11	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	267_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T23:33:15-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	159CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	101.350	1.913	1070689	1.17	100	101.4	90	110	
Be	9	1	No Gas	100.876	1.082	284520	0.45	100	100.9	90	110	
V	51	2	He	98.978	0.190	632650	0.22	100	99.0	90	110	
Cr	52	2	He	94.765	0.790	749598	0.62	100	94.8	90	110	
Fe	56	2	He	9899.159	1.078	67704019	1.06	10000	99.0	90	110	
Se	78	2	He	96.074	1.959	8195	1.73	100	96.1	90	110	
As	75	2	He	98.773	0.242	113315	0.12	100	98.8	90	110	
Ca	44	2	He	9574.934	0.781	304373	0.98	10000	95.7	90	110	
Na	23	2	He	9684.947	1.204	10670677	1.37	10000	96.8	90	110	
Mg	24	2	He	9610.447	0.827	5819918	0.97	10000	96.1	90	110	
K	39	2	He	9784.547	0.954	6237387	1.07	10000	97.8	90	110	
Mn	55	2	He	97.116	0.607	459185	0.80	100	97.1	90	110	
Co	59	2	He	100.462	0.836	1323332	1.03	100	100.5	90	110	
Ni	60	2	He	98.869	0.213	325843	0.41	100	98.9	90	110	
Cu	63	2	He	95.516	0.592	899033	0.38	100	95.5	90	110	
Zn	66	2	He	99.346	0.217	154407	0.15	100	99.3	90	110	
Al	27	2	He	106.497	2.877	29796	2.95	100	106.5	90	110	
B	11	1	No Gas	510.373	2.971	880928	2.45	500	102.1	90	110	
Al	27	1	No Gas	102.506	0.889	1735909	1.72	100	102.5	90	110	
Si	28	1	No Gas	463.067	0.682	3763438	0.66	5000	9.3	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	99.894	1.134	2082370	0.17	100	99.9	90	110	
Cd	111	1	No Gas	97.200	1.658	399466	1.55	100	97.2	90	110	
Sr	88	1	No Gas	99.534	1.481	3683742	0.23	100	99.5	90	110	
Mo	95	1	No Gas	97.971	1.581	712467	0.79	100	98.0	90	110	
Sn	118	1	No Gas	99.365	0.342	1238819	1.01	100	99.4	90	110	
Sb	121	1	No Gas	101.374	3.127	1724221	2.79	100	101.4	90	110	
Ba	137	1	No Gas	98.374	1.267	564326	0.54	100	98.4	90	110	
Tl	205	1	No Gas	100.090	0.345	3541083	1.01	100	100.1	90	110	
Tl	203	1	No Gas	100.485	1.417	1575012	0.77	100	100.5	90	110	
Pb	208	1	No Gas	96.815	0.483	4827815	0.44	100	96.8	90	110	
U	238	1	No Gas	98.614	0.437	4967169	1.11	100	98.6	90	110	
Ca	43	2	He	9713.438	2.312	18172	2.49	10000	97.1	90	110	
Sb	121	2	He	91.963	0.592	726994	0.79	100	92.0	90	110	
Ti	47	2	He	97.515	1.728	20536	1.79	100	97.5	90	110	
Cu	63	1	No Gas	101.931	1.102	1627250	0.14	100	101.9	90	110	
Se	82	1	No Gas	101.271	1.168	22605	0.69	100	101.3	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	684623	0.69	839053	81.59	70	120	
Ge	72	2	He	622186	0.21	589070	105.62	70	120	
Ge	72	1	No Gas	2465252	1.04	2387222	103.27	70	120	
In	115	1	No Gas	2865725	1.25	2718732	105.41	70	120	
Bi	209	1	No Gas	2521386	0.67	2414089	104.44	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	268_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T23:35:02-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	159CALB.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	0.453	27.4	38576	1.4	0.5	
Be	9	1	No Gas	0.042	86.1	113	82.0	0.5	
V	51	2	He	-0.195	-5.2	1336	5.3	2.5	
Cr	52	2	He	0.047	34.5	950	13.8	2.5	
Fe	56	2	He	9.460	4.8	75875	3.5	100	
Se	78	2	He	-0.314	-69.7	113	15.8	2	
As	75	2	He	-0.033	-10.4	97	3.5	2.5	
Ca	44	2	He	10.111	31.5	810	13.0	100	
Na	23	2	He	-14.792	-8.6	97975	0.8	100	
Mg	24	2	He	2.480	7.6	1873	6.2	100	
K	39	2	He	-4.443	-31.1	54076	1.1	100	
Mn	55	2	He	0.190	15.3	1403	9.7	2.5	
Co	59	2	He	0.010	32.1	163	25.5	2.5	
Ni	60	2	He	-0.510	-1.1	170	11.8	2.5	
Cu	63	2	He	-0.023	-51.5	5264	2.7	2	
Zn	66	2	He	0.047	118.2	423	19.7	2.5	
Al	27	2	He	7.370	11.0	2837	7.1	5	CCB Main CR1 Failed
B	11	1	No Gas	12.055	8.1	23583	8.9	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	22.698	108.2	415267	94.3	5	CCB Main CR1 Failed
Si	28	1	No Gas	-9.397	-22.5	283361	4.2	10	
Ag	107	1	No Gas	0.009	282.1	883	61.1	2.5	
Cd	111	1	No Gas	0.023	95.2	103	84.6	1	
Sr	88	1	No Gas	0.104	90.6	5882	57.5	2.5	
Mo	95	1	No Gas	0.037	76.6	317	63.5	2.5	
Sn	118	1	No Gas	0.079	45.9	1660	25.6	5	
Sb	121	1	No Gas	0.086	35.3	1837	26.5	2.5	
Ba	137	1	No Gas	0.303	94.9	1961	81.9	2.5	
Tl	205	1	No Gas	0.047	50.4	1680	46.7	1	
Tl	203	1	No Gas	0.047	50.6	753	46.0	1	
Pb	208	1	No Gas	0.095	52.0	5621	40.6	2.5	
U	238	1	No Gas	0.046	125.0	2209	123.8	2.5	
Ca	43	2	He	17.365	62.8	57	36.7	100	
Sb	121	2	He	0.059	15.9	650	10.7	2.5	
Ti	47	2	He	0.000	#DIV/0!	0	#DIV/0!	2.5	
Cu	63	1	No Gas	0.018	1101.2	9207	33.0	2.5	
Se	82	1	No Gas	-0.653	-99.4	-491	-28.6	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	642139	2.86	839053	76.53	70	120	
Ge	72	2	He	619198	0.85	589070	105.11	70	120	
Ge	72	1	No Gas	2435482	1.26	2387222	102.02	70	120	
In	115	1	No Gas	2848669	1.43	2718732	104.78	70	120	
Bi	209	1	No Gas	2452239	1.72	2414089	101.58	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	273_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T23:44:28-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	159CALB.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	109.175	3.388	993120	0.53	100	109.2	90	110	
Be	9	1	No Gas	110.396	2.082	268820	0.98	100	110.4	90	110	CCV Main CR1-2 Failed
V	51	2	He	99.875	0.549	627833	0.97	100	99.9	90	110	
Cr	52	2	He	95.602	0.646	743738	0.79	100	95.6	90	110	
Fe	56	2	He	9912.336	0.212	66677416	1.11	10000	99.1	90	110	
Se	78	2	He	95.485	1.592	8012	2.43	100	95.5	90	110	
As	75	2	He	99.238	0.517	111972	1.28	100	99.2	90	110	
Ca	44	2	He	9704.748	0.457	303411	1.32	10000	97.0	90	110	
Na	23	2	He	9720.257	0.953	10532364	1.21	10000	97.2	90	110	
Mg	24	2	He	9726.473	0.855	5793271	1.68	10000	97.3	90	110	
K	39	2	He	9856.808	0.695	6179296	0.90	10000	98.6	90	110	
Mn	55	2	He	97.739	0.080	454518	1.25	100	97.7	90	110	
Co	59	2	He	101.384	1.129	1313367	0.36	100	101.4	90	110	
Ni	60	2	He	100.001	0.078	324129	1.31	100	100.0	90	110	
Cu	63	2	He	96.178	0.442	890330	1.32	100	96.2	90	110	
Zn	66	2	He	99.313	1.020	151825	2.16	100	99.3	90	110	
Al	27	2	He	107.965	2.183	29696	2.24	100	108.0	90	110	
B	11	1	No Gas	534.951	3.152	797538	4.98	500	107.0	90	110	
Al	27	1	No Gas	111.226	20.543	1809800	19.77	100	111.2	90	110	CCV Main CR1-2 Failed
Si	28	1	No Gas	454.725	2.033	3566220	1.94	5000	9.1	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	99.366	1.656	1998235	0.09	100	99.4	90	110	
Cd	111	1	No Gas	96.339	1.229	381970	1.14	100	96.3	90	110	
Sr	88	1	No Gas	99.370	1.978	3547788	0.36	100	99.4	90	110	
Mo	95	1	No Gas	97.239	0.989	682252	0.95	100	97.2	90	110	
Sn	118	1	No Gas	92.064	0.763	1107524	2.40	100	92.1	90	110	
Sb	121	1	No Gas	103.333	1.174	1693116	1.01	100	103.3	90	110	
Ba	137	1	No Gas	97.609	0.419	540240	1.32	100	97.6	90	110	
Tl	205	1	No Gas	101.356	1.393	3458843	0.69	100	101.4	90	110	
Tl	203	1	No Gas	99.556	1.253	1505423	1.69	100	99.6	90	110	
Pb	208	1	No Gas	96.303	1.572	4632385	1.23	100	96.3	90	110	
U	238	1	No Gas	98.763	0.949	4798567	0.60	100	98.8	90	110	
Ca	43	2	He	9635.722	2.266	17732	3.13	10000	96.4	90	110	
Sb	121	2	He	92.941	0.445	722647	1.69	100	92.9	90	110	
Ti	47	2	He	97.404	4.591	20182	5.77	100	97.4	90	110	
Cu	63	1	No Gas	100.123	1.202	1540031	1.82	100	100.1	90	110	
Se	82	1	No Gas	100.981	5.873	21701	4.36	100	101.0	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	591263	2.81	839053	70.47	70	120	
Ge	72	2	He	611945	1.29	589070	103.88	70	120	
Ge	72	1	No Gas	2374893	1.64	2387222	99.48	70	120	
In	115	1	No Gas	2764781	1.68	2718732	101.69	70	120	
Bi	209	1	No Gas	2432259	0.71	2414089	100.75	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	274_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T23:46:17-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	159CALB.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	0.391	7.8	36631	0.7	0.5	
Be	9	1	No Gas	0.015	32.3	42	30.2	0.5	
V	51	2	He	-0.158	-8.3	1576	5.3	2.5	
Cr	52	2	He	0.055	8.5	1020	3.5	2.5	
Fe	56	2	He	16.126	13.6	121992	12.3	100	
Se	78	2	He	0.034	311.5	143	6.3	2	
As	75	2	He	-0.038	-37.9	92	17.8	2.5	
Ca	44	2	He	10.174	27.6	817	11.0	100	
Na	23	2	He	-16.694	-3.4	96509	0.6	100	
Mg	24	2	He	3.522	14.3	2517	12.1	100	
K	39	2	He	-2.797	-25.4	55455	0.9	100	
Mn	55	2	He	0.393	14.7	2374	11.5	2.5	
Co	59	2	He	0.017	16.8	257	14.8	2.5	
Ni	60	2	He	-0.491	-1.3	233	8.9	2.5	
Cu	63	2	He	0.020	440.5	5705	14.7	2	
Zn	66	2	He	0.076	106.8	470	26.6	2.5	
Al	27	2	He	12.387	15.3	4221	12.2	5	CCB Main CR1 Failed
B	11	1	No Gas	9.657	14.6	18986	11.1	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	7.889	9.2	184905	6.7	5	CCB Main CR1 Failed
Si	28	1	No Gas	-10.824	-7.5	283590	1.4	10	
Ag	107	1	No Gas	-0.013	-12.2	447	6.8	2.5	
Cd	111	1	No Gas	0.003	167.9	23	89.2	1	
Sr	88	1	No Gas	0.051	16.9	4084	9.1	2.5	
Mo	95	1	No Gas	0.012	30.0	143	17.6	2.5	
Sn	118	1	No Gas	0.065	15.1	1540	6.6	5	
Sb	121	1	No Gas	0.070	2.8	1627	2.0	2.5	
Ba	137	1	No Gas	0.134	12.7	1047	11.2	2.5	
Tl	205	1	No Gas	0.024	38.8	917	34.4	1	
Tl	203	1	No Gas	0.020	12.9	360	12.7	1	
Pb	208	1	No Gas	0.047	6.7	3420	3.5	2.5	
U	238	1	No Gas	0.008	15.6	397	16.4	2.5	
Ca	43	2	He	-5.925	-52.0	13	43.3	100	
Sb	121	2	He	0.057	8.9	640	6.2	2.5	
Ti	47	2	He	0.158	125.0	33	124.9	2.5	
Cu	63	1	No Gas	-0.081	-38.4	7969	6.8	2.5	
Se	82	1	No Gas	-1.102	-82.0	-615	-33.9	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	619072	0.50	839053	73.78	70	120	
Ge	72	2	He	623012	0.10	589070	105.76	70	120	
Ge	72	1	No Gas	2529294	0.81	2387222	105.95	70	120	
In	115	1	No Gas	2938330	1.82	2718732	108.08	70	120	
Bi	209	1	No Gas	2548426	1.42	2414089	105.56	70	120	

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	280CALB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T23:57:34-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	35112	0.00
Be	9	1	No Gas	57	32.41
V	51	2	He	1901	0.31
Cr	52	2	He	713	1.65
Fe	56	2	He	152345	0.01
Se	78	2	He	128	4.23
As	75	2	He	133	19.58
Ca	44	2	He	863	1.57
Na	23	2	He	97808	0.00
Mg	24	2	He	3287	0.12
K	39	2	He	54163	0.00
Mn	55	2	He	2490	0.45
Co	59	2	He	283	8.01
Ni	60	2	He	2187	0.05
Cu	63	2	He	11081	0.05
Zn	66	2	He	520	3.03
Al	27	2	He	4547	0.09
B	11	1	No Gas	9150	0.01
Al	27	1	No Gas	210310	0.00
Si	28	1	No Gas	329638	0.00
Ag	107	1	No Gas	417	0.33
Cd	111	1	No Gas	43	122.99
Sr	88	1	No Gas	4354	0.05
Mo	95	1	No Gas	87	46.76
Sn	118	1	No Gas	983	1.01
Sb	121	1	No Gas	583	1.89
Ba	137	1	No Gas	1167	0.18
Tl	205	1	No Gas	450	1.78
Tl	203	1	No Gas	203	2.79
Pb	208	1	No Gas	2800	0.11
U	238	1	No Gas	480	2.30
Ca	43	2	He	60	111.11
Sb	121	2	He	233	5.61
Ti	47	2	He	33	207.85
Cu	63	1	No Gas	16063	0.02

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD

Calibration Blank Report

Li	6	1	No Gas	592897	1.19
Ge	72	2	He	621187	0.65
Ge	72	1	No Gas	2485988	0.98
In	115	1	No Gas	2922371	1.84

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Bi	209	1	No Gas	2541424	1.31

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	281CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T23:59:32-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	280CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	5458	0.02
V	51	2	He	14340	0.01
Cr	52	2	He	16233	0.00
Fe	56	2	He	1523299	0.00
Se	78	2	He	292	2.81
As	75	2	He	2288	0.03
Ca	44	2	He	6752	0.08
Na	23	2	He	291536	0.00
Mg	24	2	He	109219	0.00
K	39	2	He	166485	0.00
Mn	55	2	He	10935	0.02
Co	59	2	He	25344	0.01
Ni	60	2	He	11785	0.03
Cu	63	2	He	40434	0.01
Zn	66	2	He	3691	0.10
Al	27	2	He	3931	0.35
B	11	1	No Gas	23029	0.00
Al	27	1	No Gas	234696	0.00
Si	28	1	No Gas	393762	0.00
Ag	107	1	No Gas	39800	0.00
Cd	111	1	No Gas	8316	0.03
Sr	88	1	No Gas	73428	0.00
Mo	95	1	No Gas	13707	0.01
Sn	118	1	No Gas	23388	0.01
Sb	121	1	No Gas	32768	0.00
Ba	137	1	No Gas	12603	0.01
Tl	205	1	No Gas	66866	0.00
Tl	203	1	No Gas	28069	0.01
Pb	208	1	No Gas	94505	0.00
U	238	1	No Gas	92534	0.00
Ca	43	2	He	437	4.24
Sb	121	2	He	14391	0.03
Cu	63	1	No Gas	69159	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	590154	0.91	592897	99.54	70	120	
Ge	72	2	He	623222	0.60	621187	100.33	70	120	
Ge	72	1	No Gas	2457326	0.72	2485988	98.85	70	120	

Calibration Standard Report

In	115	1	No Gas	2891930	1.47	2922371	98.96	70	120	
Bi	209	1	No Gas	2550491	1.10	2541424	100.36	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	282CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-31T00:01:31-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	280CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	12801	0.01
V	51	2	He	32047	0.00
Cr	52	2	He	37000	0.01
Fe	56	2	He	3442907	0.00
Se	78	2	He	532	1.21
As	75	2	He	5491	0.02
Ca	44	2	He	15075	0.02
Na	23	2	He	570963	0.00
Mg	24	2	He	263017	0.00
K	39	2	He	328395	0.00
Mn	55	2	He	23928	0.00
Co	59	2	He	60668	0.00
Ni	60	2	He	16113	0.01
Cu	63	2	He	47748	0.00
Zn	66	2	He	8019	0.04
Al	27	2	He	3874	0.29
B	11	1	No Gas	43457	0.00
Al	27	1	No Gas	241425	0.00
Si	28	1	No Gas	475728	0.00
Ag	107	1	No Gas	95728	0.00
Cd	111	1	No Gas	19385	0.01
Sr	88	1	No Gas	172845	0.00
Mo	95	1	No Gas	34395	0.00
Sn	118	1	No Gas	56257	0.00
Sb	121	1	No Gas	78833	0.00
Ba	137	1	No Gas	28341	0.00
Tl	205	1	No Gas	162720	0.00
Tl	203	1	No Gas	68846	0.00
Pb	208	1	No Gas	224797	0.00
U	238	1	No Gas	226577	0.00
Ca	43	2	He	940	0.45
Sb	121	2	He	35204	0.00
Cu	63	1	No Gas	79649	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	572013	1.24	592897	96.48	70	120	
Ge	72	2	He	602793	0.59	621187	97.04	70	120	
Ge	72	1	No Gas	2416767	0.80	2485988	97.22	70	120	

Calibration Standard Report

In	115	1	No Gas	2845754	1.86	2922371	97.38	70	120	
Bi	209	1	No Gas	2466567	1.10	2541424	97.05	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	283CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-31T00:03:29-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	280CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	26617	0.00
V	51	2	He	64462	0.00
Cr	52	2	He	76255	0.00
Fe	56	2	He	6885302	0.00
Se	78	2	He	948	0.91
As	75	2	He	11454	0.01
Ca	44	2	He	31750	0.00
Na	23	2	He	1191140	0.00
Mg	24	2	He	538195	0.00
K	39	2	He	624894	0.00
Mn	55	2	He	48132	0.00
Co	59	2	He	123732	0.00
Ni	60	2	He	33007	0.01
Cu	63	2	He	94799	0.00
Zn	66	2	He	16103	0.02
Al	27	2	He	5608	0.08
B	11	1	No Gas	81862	0.00
Al	27	1	No Gas	307412	0.00
Si	28	1	No Gas	658622	0.00
Ag	107	1	No Gas	197563	0.00
Cd	111	1	No Gas	40743	0.00
Sr	88	1	No Gas	357218	0.00
Mo	95	1	No Gas	71823	0.00
Sn	118	1	No Gas	115377	0.00
Sb	121	1	No Gas	161920	0.00
Ba	137	1	No Gas	57454	0.00
Tl	205	1	No Gas	338634	0.00
Tl	203	1	No Gas	142273	0.00
Pb	208	1	No Gas	467085	0.00
U	238	1	No Gas	466817	0.00
Ca	43	2	He	1837	0.50
Sb	121	2	He	71793	0.00
Cu	63	1	No Gas	157484	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	581638	1.43	592897	98.10	70	120	
Ge	72	2	He	619208	0.10	621187	99.68	70	120	
Ge	72	1	No Gas	2468234	0.49	2485988	99.29	70	120	

Calibration Standard Report

In	115	1	No Gas	2890989	1.17	2922371	98.93	70	120	
Bi	209	1	No Gas	2558070	0.81	2541424	100.66	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	284CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-31T00:05:27-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	280CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	261272	0.00
V	51	2	He	616745	0.00
Cr	52	2	He	730160	0.00
Fe	56	2	He	65343027	0.00
Se	78	2	He	7914	0.03
As	75	2	He	109996	0.00
Ca	44	2	He	296014	0.00
Na	23	2	He	10326270	0.00
Mg	24	2	He	5630187	0.00
K	39	2	He	5959291	0.00
Mn	55	2	He	447164	0.00
Co	59	2	He	1294067	0.00
Ni	60	2	He	317766	0.00
Cu	63	2	He	870183	0.00
Zn	66	2	He	149827	0.00
Al	27	2	He	28446	0.01
B	11	1	No Gas	772679	0.00
Al	27	1	No Gas	1595027	0.00
Si	28	1	No Gas	3443468	0.00
Ag	107	1	No Gas	2021531	0.00
Cd	111	1	No Gas	386720	0.00
Sr	88	1	No Gas	3554678	0.00
Mo	95	1	No Gas	692468	0.00
Sn	118	1	No Gas	1101467	0.00
Sb	121	1	No Gas	1695472	0.00
Ba	137	1	No Gas	544711	0.00
Tl	205	1	No Gas	3416703	0.00
Tl	203	1	No Gas	1507374	0.00
Pb	208	1	No Gas	4631976	0.00
U	238	1	No Gas	4806501	0.00
Ca	43	2	He	17358	0.01
Sb	121	2	He	709512	0.00
Cu	63	1	No Gas	1534872	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	569987	0.80	592897	96.14	70	120	
Ge	72	2	He	615947	0.67	621187	99.16	70	120	
Ge	72	1	No Gas	2478200	0.76	2485988	99.69	70	120	

Calibration Standard Report

In	115	1	No Gas	2828446	1.89	2922371	96.79	70	120	
Bi	209	1	No Gas	2497633	0.78	2541424	98.28	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	285CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-31T00:07:19-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	280CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	535764	0.00
V	51	2	He	1416947	0.00
Cr	52	2	He	1579143	0.00
Fe	56	2	He	133866305	0.00
Se	78	2	He	16096	0.01
As	75	2	He	224990	0.00
Ca	44	2	He	605900	0.00
Na	23	2	He	20768848	0.00
Mg	24	2	He	11434710	0.00
K	39	2	He	12220016	0.00
Mn	55	2	He	913424	0.00
Co	59	2	He	2579996	0.00
Ni	60	2	He	646601	0.00
Cu	63	2	He	1873039	0.00
Zn	66	2	He	302641	0.00
Al	27	2	He	54356	0.00
B	11	1	No Gas	1628883	0.00
Al	27	1	No Gas	3001752	0.00
Si	28	1	No Gas	6685044	0.00
Ag	107	1	No Gas	4012051	0.00
Cd	111	1	No Gas	793645	0.00
Sr	88	1	No Gas	7126515	0.00
Mo	95	1	No Gas	1600805	0.00
Sn	118	1	No Gas	2420460	0.00
Sb	121	1	No Gas	3415485	0.00
Ba	137	1	No Gas	1141810	0.00
Tl	205	1	No Gas	6945936	0.00
Tl	203	1	No Gas	3110245	0.00
Pb	208	1	No Gas	9816384	0.00
U	238	1	No Gas	9748106	0.00
Ca	43	2	He	36245	0.00
Sb	121	2	He	1573613	0.00
Cu	63	1	No Gas	3044030	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	587886	2.28	592897	99.15	70	120	
Ge	72	2	He	610235	0.67	621187	98.24	70	120	
Ge	72	1	No Gas	2389223	1.49	2485988	96.11	70	120	

Calibration Standard Report

In	115	1	No Gas	2795473	1.14	2922371	95.66	70	120	
Bi	209	1	No Gas	2423930	0.85	2541424	95.38	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICCV
Data File Name	287_ICV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-31T00:11:02-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	280CALB.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	107.830	0.727	1027867	1.34	100	107.8	90	110	
Be	9	1	No Gas	102.922	0.440	271004	0.75	100	102.9	90	110	
V	51	2	He	90.548	0.418	640905	0.08	100	90.5	90	110	
Cr	52	2	He	94.945	0.272	756641	0.11	100	94.9	90	110	
Fe	56	2	He	9779.372	0.490	66791332	0.41	10000	97.8	90	110	
Se	78	2	He	100.119	2.043	8278	1.73	100	100.1	90	110	
As	75	2	He	100.936	0.821	115847	1.15	100	100.9	90	110	
Ca	44	2	He	9801.586	0.423	303129	0.43	10000	98.0	90	110	
Na	23	2	He	9840.704	1.475	10496447	1.32	10000	98.4	90	110	
Mg	24	2	He	9910.790	1.642	5786732	1.72	10000	99.1	90	110	
K	39	2	He	9842.547	1.361	6150927	1.18	10000	98.4	90	110	
Mn	55	2	He	98.792	0.332	461241	0.58	100	98.8	90	110	
Co	59	2	He	101.941	0.412	1347658	0.16	100	101.9	90	110	
Ni	60	2	He	99.868	0.528	330436	0.42	100	99.9	90	110	
Cu	63	2	He	94.499	0.326	898383	0.32	100	94.5	90	110	
Zn	66	2	He	101.244	0.560	156834	0.22	100	101.2	90	110	
Al	27	2	He	89.201	7.136	27144	5.59	100	89.2	90	110	ICV Main CR1 Failed
B	11	1	No Gas	519.777	3.022	830672	2.44	500	104.0	90	110	
Al	27	1	No Gas	94.281	1.440	1572802	1.30	100	94.3	90	110	
Si	28	1	No Gas	499.819	2.245	3610222	1.52	500	100.0	90	110	
Ag	107	1	No Gas	102.594	0.793	2116263	0.80	100	102.6	90	110	
Cd	111	1	No Gas	98.868	1.305	400800	1.31	100	98.9	90	110	
Sr	88	1	No Gas	100.322	1.564	3670120	1.69	100	100.3	90	110	
Mo	95	1	No Gas	88.593	0.796	708481	0.76	100	88.6	90	110	ICV Main CR1 Failed
Sn	118	1	No Gas	101.142	2.533	1234514	2.51	100	101.1	90	110	
Sb	121	1	No Gas	99.484	1.334	1755523	1.29	100	99.5	90	110	
Ba	137	1	No Gas	97.477	1.656	566520	1.78	100	97.5	90	110	
Tl	205	1	No Gas	102.479	0.854	3651714	0.07	100	102.5	90	110	
Tl	203	1	No Gas	99.914	2.037	1589441	1.35	100	99.9	90	110	
Pb	208	1	No Gas	95.922	0.967	4793369	0.44	100	95.9	90	110	
U	238	1	No Gas	97.071	1.042	4856353	0.65	100	97.1	90	110	
Ca	43	2	He	9843.328	2.019	18142	1.79	10000	98.4	90	110	
Sb	121	2	He	94.378	0.928	745723	0.85	100	94.4	90	110	
Ti	47	2	He	97.189	2.412	20235	2.07	100	97.2	90	110	
Cu	63	1	No Gas	102.734	1.670	1626763	1.22	100	102.7	90	110	
Se	82	1	No Gas	98.493	4.432	22324	4.10	100	98.5	90	110	

QC ISTD Table

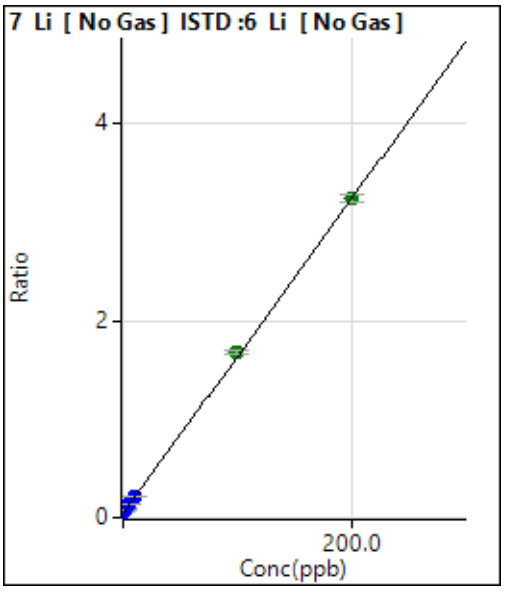
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	576897	0.98	592897	97.30	70	120	
Ge	72	2	He	626201	0.34	621187	100.81	70	120	
Ge	72	1	No Gas	2490392	0.52	2485988	100.18	70	120	
In	115	1	No Gas	2876747	0.27	2922371	98.44	70	120	
Bi	209	1	No Gas	2510092	0.80	2541424	98.77	70	120	

Calibration for 287_ICV.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\083022A.b\
Analysis File: 083022A.batch.bin
DA Date-Time: 08/31/2022 00:11:43
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	280CALB.d	CAL BLK	08/30/2022 23:57:34
2	281CALS.d	2/10/200	08/30/2022 23:59:32
3	282CALS.d	5/25/500	08/31/2022 00:01:31
4	283CALS.d	10/50/100	08/31/2022 00:03:29
5	284CALS.d	100/500/10K	08/31/2022 00:05:27
6	285CALS.d	200/1000/20K	08/31/2022 00:07:19

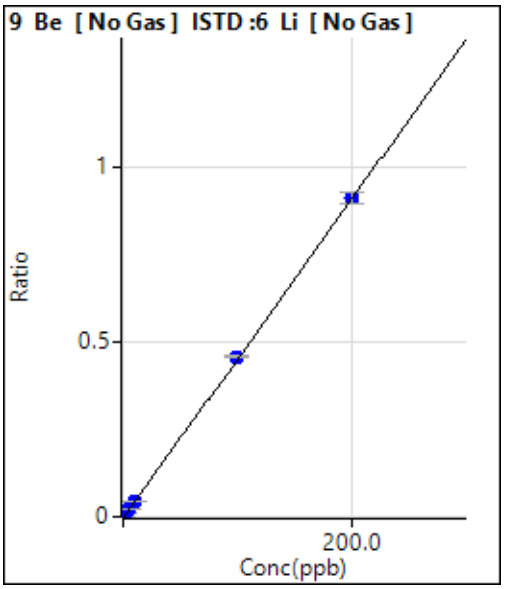
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	35112.09	0.0592	P	1.0	
2	☐	2.000	1.785	51776.75	0.0877	P	1.5	-10.7
3	☐	5.000	4.676	76590.64	0.1339	P	2.6	-6.5
4	☐	10.000	9.324	121069.99	0.2082	P	0.7	-6.8
5	☐	100.000	101.604	958770.32	1.6822	A	1.9	1.6
6	☐	200.000	199.242	1905125.23	3.2419	A	2.6	-0.4

y = 0.0160 * x + 0.0592
R = 0.9999
DL = 0.1082 ppb
BEC = 3.707 ppb

Weight: <None>
Min Conc: <None>

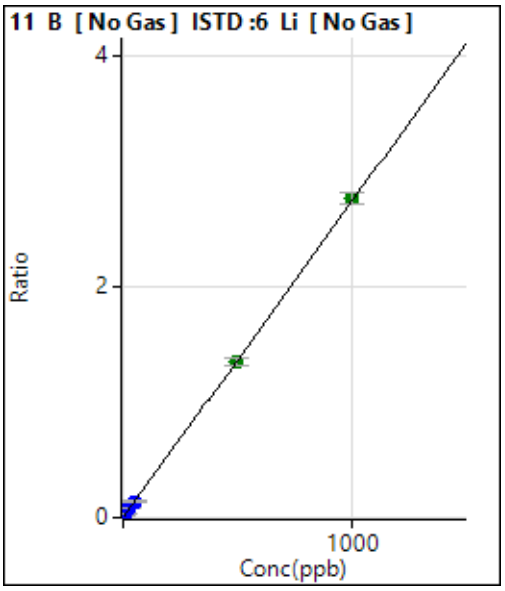


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	56.67	0.0001	P	17.8	
2	☐	2.000	2.006	5457.77	0.0092	P	1.9	0.3
3	☐	5.000	4.883	12800.88	0.0224	P	1.6	-2.3
4	☐	10.000	10.009	26616.95	0.0458	P	2.0	0.1
5	☐	100.000	100.429	261271.58	0.4584	P	0.4	0.4
6	☐	200.000	199.788	535764.17	0.9118	P	3.4	-0.1

y = 0.0046 * x + 9.5521E-005
R = 1.0000
DL = 0.0112 ppb
BEC = 0.02093 ppb

Weight: <None>
Min Conc: <None>

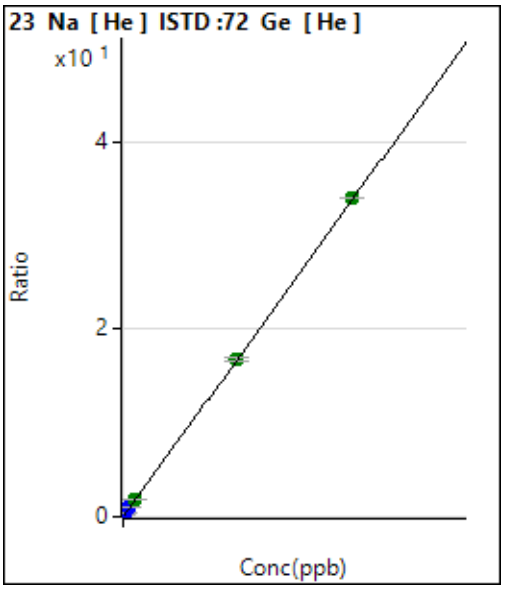
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	9149.72	0.0154	P	2.0	
2	☐	10.000	8.606	23028.99	0.0390	P	0.9	-13.9
3	☐	25.000	22.088	43457.09	0.0760	P	1.0	-11.6
4	☐	50.000	45.726	81862.28	0.1408	P	2.5	-8.5
5	☐	500.000	488.850	772679.39	1.3553	A	4.2	-2.2
6	☐	1000.000	1005.876	1628882.89	2.7724	A	4.0	0.6

y = 0.0027 * x + 0.0154
R = 0.9999
DL = 0.3424 ppb
BEC = 5.631 ppb

Weight: <None>
Min Conc: <None>

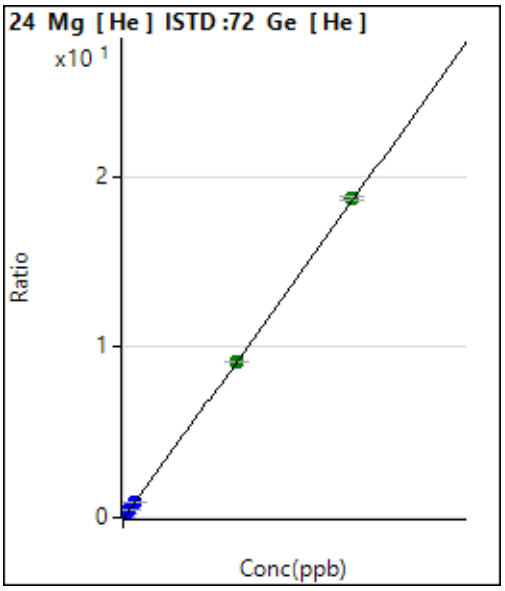


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	97807.67	0.1575	P	0.9	
2	☐	200.000	183.927	291536.45	0.4678	P	1.1	-8.0
3	☐	500.000	468.023	570962.72	0.9472	P	0.7	-6.4
4	☐	1000.000	1046.715	1191140.09	1.9237	A	0.8	4.7
5	☐	10000.00	9843.042	10326270.05	16.7663	A	2.1	-1.6
6	☐	20000.00	20077.10	20768848.44	34.0350	A	0.6	0.4

y = 0.0017 * x + 0.1575
R = 1.0000
DL = 2.612 ppb
BEC = 93.31 ppb

Weight: <None>
Min Conc: <None>

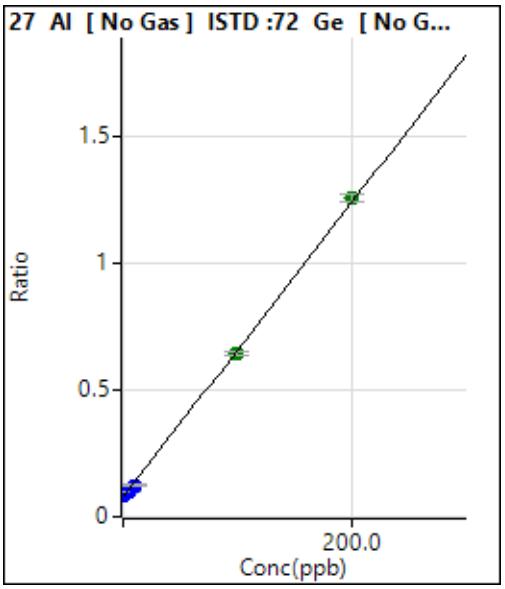
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3287.13	0.0053	P	4.6	
2	☐	200.000	182.387	109218.73	0.1753	P	1.1	-8.8
3	☐	500.000	462.555	263016.69	0.4363	P	1.0	-7.5
4	☐	1000.000	927.017	538195.35	0.8692	P	0.8	-7.3
5	☐	10000.00	9803.372	5630186.59	9.1409	A	0.5	-2.0
6	☐	20000.00	20103.07	11434710.25	18.7390	A	0.9	0.5

y = 9.3188E-004 * x + 0.0053
R = 0.9999
DL = 0.7886 ppb
BEC = 5.68 ppb

Weight: <None>
Min Conc: <None>

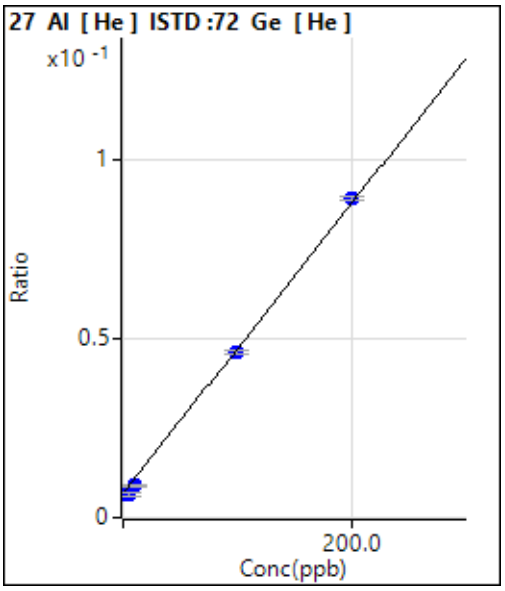


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	210310.03	0.0846	P	5.2	
2	☐	2.000	1.886	234696.10	0.0955	P	6.5	-5.7
3	☐	5.000	2.643	241424.97	0.0999	P	2.0	-47.1
4	☐	10.000	6.889	307412.00	0.1245	P	4.9	-31.1
5	☐	100.000	96.353	1595027.16	0.6436	A	2.0	-3.6
6	☐	200.000	202.039	3001751.93	1.2567	A	2.8	1.0

y = 0.0058 * x + 0.0846
R = 0.9997
DL = 2.257 ppb
BEC = 14.58 ppb

Weight: <None>
Min Conc: <None>

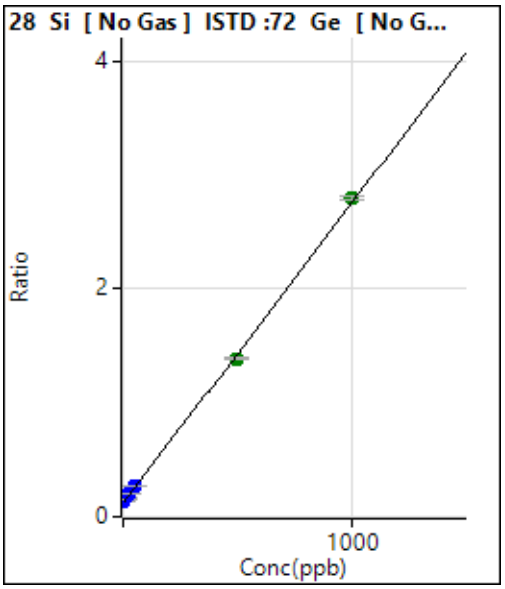
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4547.49	0.0073	P	4.1	
2	☐	2.000	-2.508	3930.66	0.0063	P	13.7	-225.4
3	☐	5.000	-2.219	3873.95	0.0064	P	10.7	-144.4
4	☐	10.000	4.298	5607.91	0.0091	P	4.5	-57.0
5	☐	100.000	96.205	28446.03	0.0462	P	1.7	-3.8
6	☐	200.000	202.408	54356.47	0.0891	P	1.7	1.2

y = 4.0394E-004 * x + 0.0073
R = 0.9995
DL = 2.225 ppb
BEC = 18.12 ppb

Weight: <None>
Min Conc: <None>

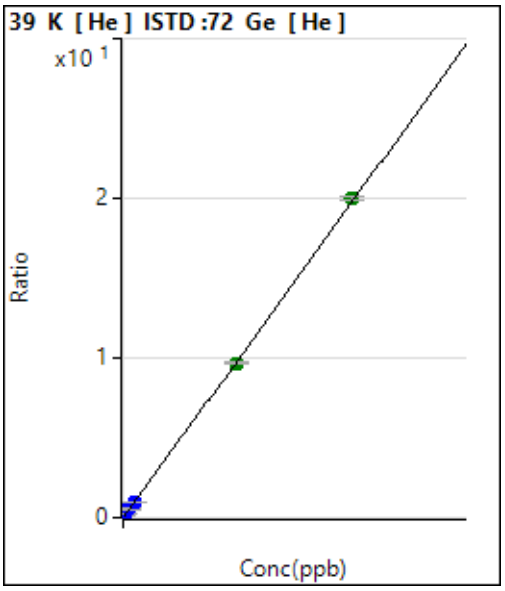


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	329638.03	0.1326	P	1.2	
2	☐	10.000	10.490	393761.89	0.1602	P	1.0	4.9
3	☐	25.000	24.379	475728.36	0.1969	P	1.1	-2.5
4	☐	50.000	50.938	658622.15	0.2668	P	0.2	1.9
5	☐	500.000	476.937	3443467.87	1.3895	A	1.4	-4.6
6	☐	1000.000	1011.495	6685044.28	2.7982	A	0.7	1.1

y = 0.0026 * x + 0.1326
R = 0.9996
DL = 1.794 ppb
BEC = 50.32 ppb

Weight: <None>
Min Conc: <None>

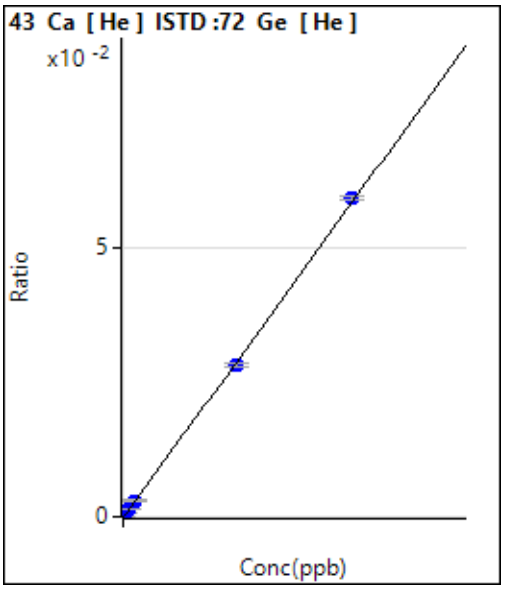
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	54162.92	0.0872	P	1.8	
2	☐	200.000	181.923	166484.77	0.2671	P	1.0	-9.0
3	☐	500.000	462.635	328394.92	0.5448	P	0.8	-7.5
4	☐	1000.000	932.113	624893.96	1.0092	P	0.8	-6.8
5	☐	10000.00	9693.512	5959291.16	9.6754	A	0.9	-3.1
6	☐	20000.00	20157.75	12220016.49	20.0259	A	1.2	0.8

y = 9.8913E-004 * x + 0.0872
R = 0.9998
DL = 4.66 ppb
BEC = 88.15 ppb

Weight: <None>
Min Conc: <None>

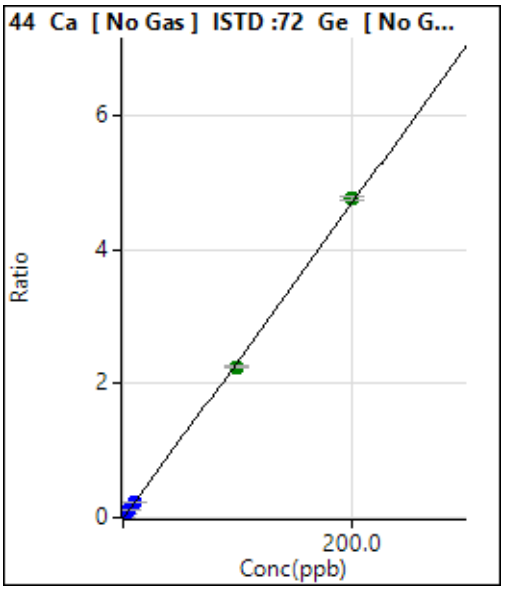


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	60.00	0.0001	P	66.6	
2	☐	200.000	205.875	436.68	0.0007	P	18.1	2.9
3	☐	500.000	498.814	940.05	0.0016	P	4.8	-0.2
4	☐	1000.000	978.260	1836.82	0.0030	P	9.1	-2.2
5	☐	10000.00	9574.120	17358.03	0.0282	P	2.1	-4.3
6	☐	20000.00	20213.99	36244.54	0.0594	P	1.0	1.1

y = 2.9336E-006 * x + 9.6446E-005
R = 0.9997
DL = 65.73 ppb
BEC = 32.88 ppb

Weight: <None>
Min Conc: <None>

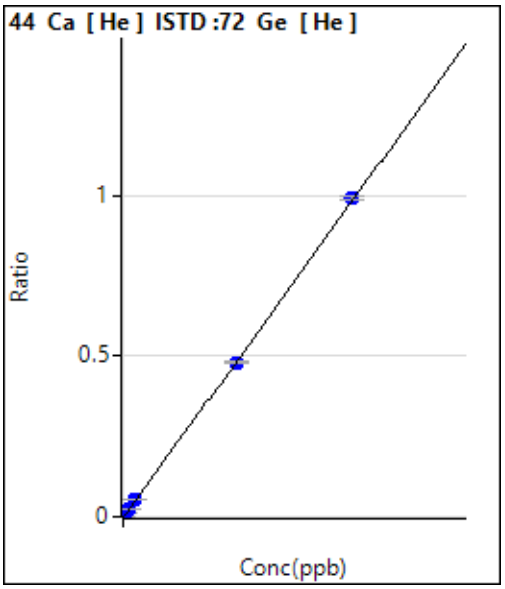
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	23466.98	0.0094	P	1.0	
2	☐	2.000	1.861	130810.66	0.0532	P	1.1	-6.9
3	☐	5.000	4.518	279707.76	0.1157	P	0.9	-9.6
4	☐	10.000	9.260	561047.89	0.2273	P	0.5	-7.4
5	☐	100.000	95.190	5573722.00	2.2491	A	1.1	-4.8
6	☐	200.000	202.455	11401667.75	4.7728	A	1.5	1.2

y = 0.0235 * x + 0.0094
R = 0.9996
DL = 0.0123 ppb
BEC = 0.4012 ppb

Weight: <None>
Min Conc: <None>

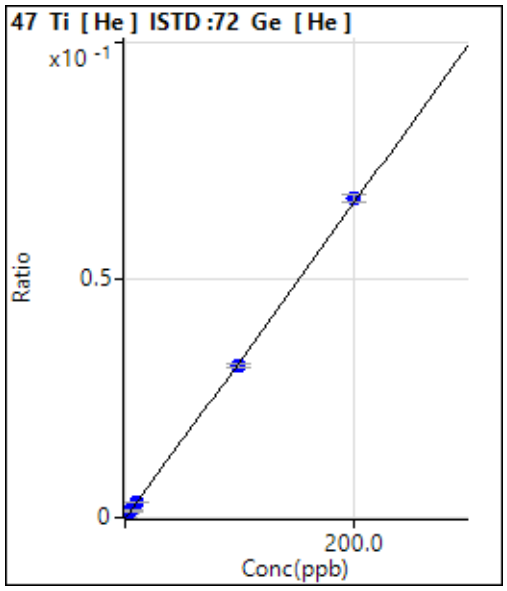


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	863.38	0.0014	P	13.7	
2	☐	200.000	191.748	6751.76	0.0108	P	4.9	-4.1
3	☐	500.000	479.607	15075.17	0.0250	P	2.6	-4.1
4	☐	1000.000	1012.973	31750.17	0.0513	P	1.5	1.3
5	☐	10000.00	9731.236	296014.43	0.4806	P	1.4	-2.7
6	☐	20000.00	20134.32	605900.23	0.9929	P	0.7	0.7

y = 4.9246E-005 * x + 0.0014
R = 0.9999
DL = 11.63 ppb
BEC = 28.23 ppb

Weight: <None>
Min Conc: <None>

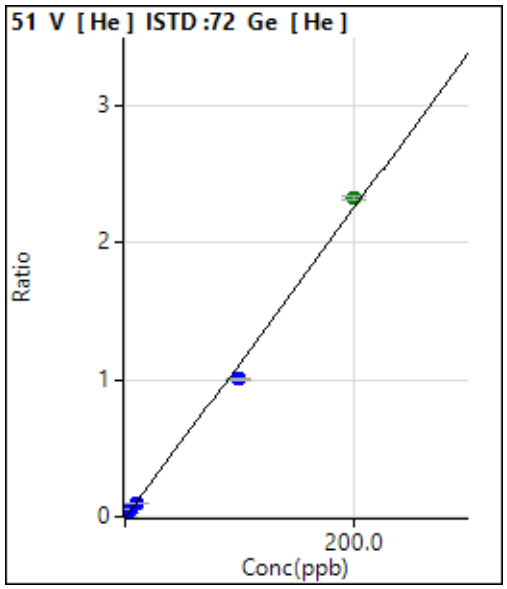
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	33.33	0.0001	P	68.7	
2	☐	2.000	2.306	510.02	0.0008	P	20.4	15.3
3	☐	5.000	4.335	900.05	0.0015	P	11.3	-13.3
4	☐	10.000	9.343	1953.51	0.0032	P	6.1	-6.6
5	☐	100.000	95.807	19620.93	0.0319	P	3.0	-4.2
6	☐	200.000	202.143	40978.11	0.0672	P	1.9	1.1

y = 3.3195E-004 * x + 5.3523E-005
R = 0.9997
DL = 0.3322 ppb
BEC = 0.1612 ppb

Weight: <None>
Min Conc: <None>

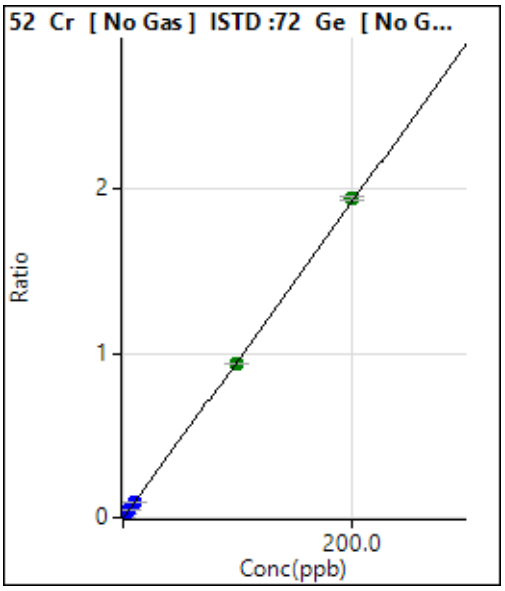


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1901.26	0.0031	P	5.4	
2	☐	2.000	1.770	14339.77	0.0230	P	0.5	-11.5
3	☐	5.000	4.446	32047.41	0.0532	P	1.1	-11.1
4	☐	10.000	8.966	64461.72	0.1041	P	0.4	-10.3
5	☐	100.000	88.582	616744.75	1.0013	P	0.9	-11.4
6	☐	200.000	205.777	1416946.82	2.3221	A	1.1	2.9

y = 0.0113 * x + 0.0031
R = 0.9978
DL = 0.04363 ppb
BEC = 0.2715 ppb

Weight: <None>
Min Conc: <None>

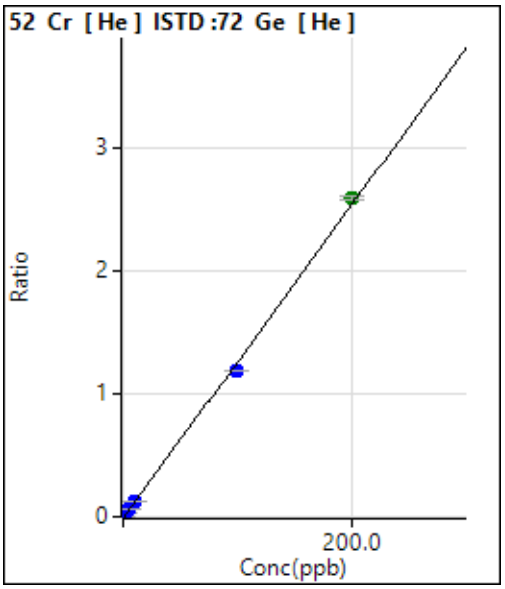
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13743.76	0.0055	P	3.3	
2	☐	2.000	1.948	59619.95	0.0243	P	2.1	-2.6
3	☐	5.000	4.768	124159.48	0.0514	P	2.0	-4.6
4	☐	10.000	9.699	243827.29	0.0988	P	0.3	-3.0
5	☐	100.000	96.841	2321287.26	0.9367	A	0.8	-3.2
6	☐	200.000	201.601	4644214.10	1.9440	A	1.2	0.8

y = 0.0096 * x + 0.0055
R = 0.9998
DL = 0.05689 ppb
BEC = 0.575 ppb

Weight: <None>
Min Conc: <None>

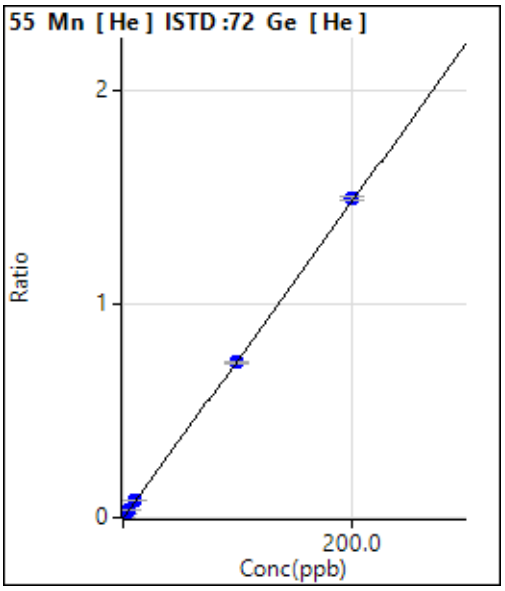


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	713.37	0.0011	P	12.4	
2	☐	2.000	1.958	16233.22	0.0260	P	1.0	-2.1
3	☐	5.000	4.738	37000.28	0.0614	P	2.4	-5.2
4	☐	10.000	9.596	76254.89	0.1231	P	0.0	-4.0
5	☐	100.000	93.150	730160.04	1.1855	P	1.2	-6.9
6	☐	200.000	203.452	1579143.05	2.5879	A	1.6	1.7

y = 0.0127 * x + 0.0011
R = 0.9992
DL = 0.03357 ppb
BEC = 0.09037 ppb

Weight: <None>
Min Conc: <None>

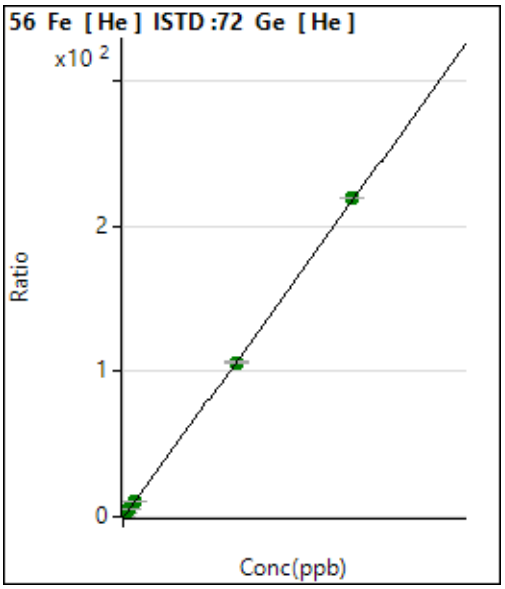
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2490.29	0.0040	P	10.7	
2	☐	2.000	1.826	10934.53	0.0175	P	1.8	-8.7
3	☐	5.000	4.813	23928.03	0.0397	P	0.5	-3.7
4	☐	10.000	9.942	48131.76	0.0777	P	1.2	-0.6
5	☐	100.000	97.371	447164.26	0.7260	P	1.6	-2.6
6	☐	200.000	201.324	913424.34	1.4969	P	0.8	0.7

y = 0.0074 * x + 0.0040
R = 0.9999
DL = 0.1737 ppb
BEC = 0.5404 ppb

Weight: <None>
Min Conc: <None>

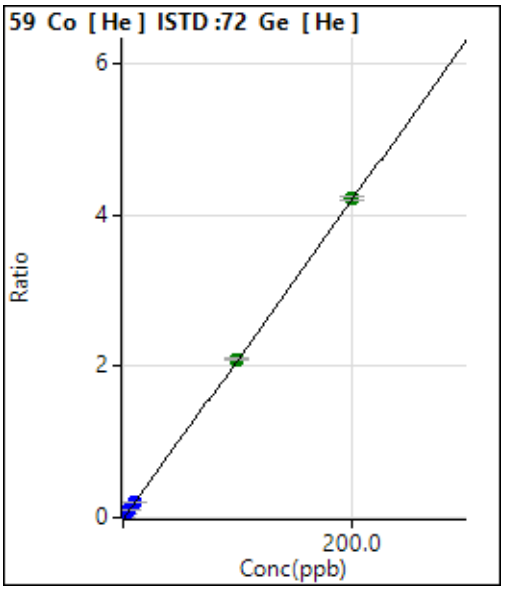


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	152345.24	0.2452	P	8.5	
2	☐	200.000	202.100	1523299.46	2.4444	A	2.4	1.0
3	☐	500.000	502.329	3442906.51	5.7114	A	1.1	0.5
4	☐	1000.000	999.316	6885301.56	11.1195	A	0.4	-0.1
5	☐	10000.00	9726.686	65343027.36	106.088	A	0.7	-2.7
6	☐	20000.00	20136.61	133866304.6	219.366	A	0.4	0.7

y = 0.0109 * x + 0.2452
R = 0.9999
DL = 5.752 ppb
BEC = 22.54 ppb

Weight: <None>
Min Conc: <None>

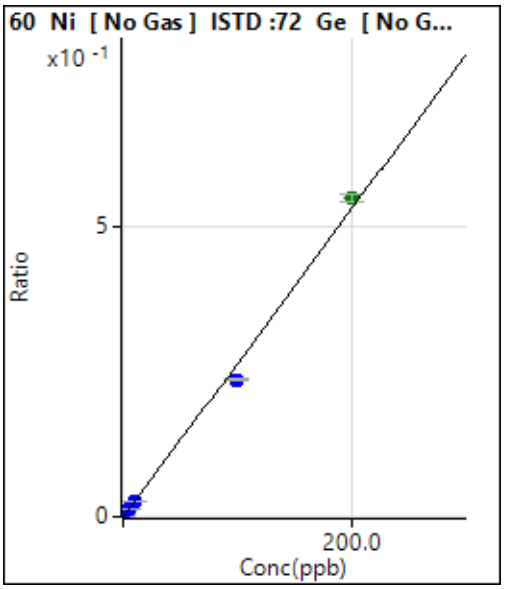
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	283.34	0.0005	P	22.8	
2	☐	2.000	1.905	25343.77	0.0407	P	1.7	-4.7
3	☐	5.000	4.747	60668.22	0.1007	P	2.0	-5.1
4	☐	10.000	9.445	123731.91	0.1998	P	0.4	-5.5
5	☐	100.000	99.519	1294067.01	2.1010	A	0.9	-0.5
6	☐	200.000	200.275	2579996.21	4.2277	A	1.4	0.1

y = 0.0211 * x + 4.5622E-004
R = 1.0000
DL = 0.01481 ppb
BEC = 0.02161 ppb

Weight: <None>
Min Conc: <None>

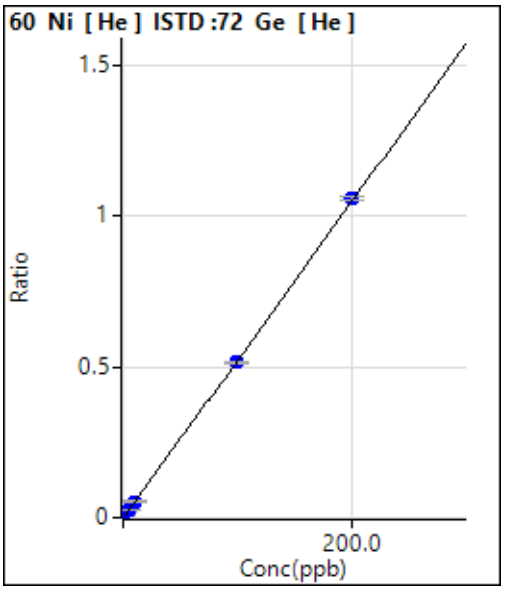


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4070.69	0.0016	P	3.8	
2	☐	2.000	2.761	22021.44	0.0090	P	5.0	38.1
3	☐	5.000	4.093	30200.55	0.0125	P	2.2	-18.1
4	☐	10.000	8.776	61502.27	0.0249	P	1.1	-12.2
5	☐	100.000	88.003	582572.48	0.2351	P	1.0	-12.0
6	☐	200.000	206.075	1309842.51	0.5483	A	2.7	3.0

y = 0.0027 * x + 0.0016
R = 0.9975
DL = 0.07035 ppb
BEC = 0.6171 ppb

Weight: <None>
Min Conc: <None>

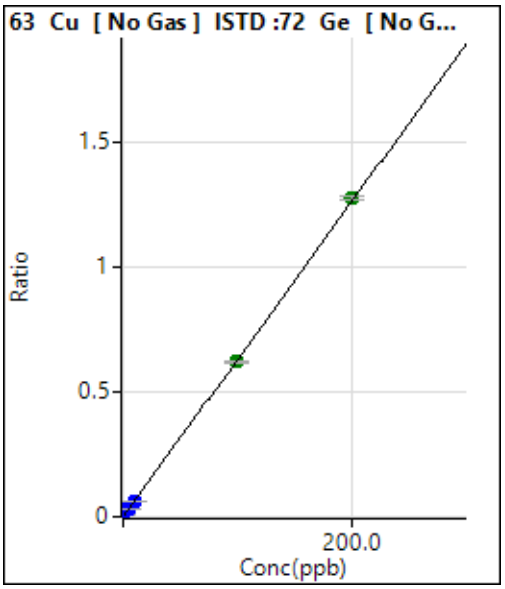
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2186.89	0.0035	P	0.5	
2	☐	2.000	2.932	11785.27	0.0189	P	4.2	46.6
3	☐	5.000	4.422	16113.12	0.0267	P	1.4	-11.6
4	☐	10.000	9.485	33007.03	0.0533	P	3.9	-5.1
5	☐	100.000	97.628	317766.24	0.5159	P	1.6	-2.4
6	☐	200.000	201.217	646600.63	1.0596	P	0.7	0.6

y = 0.0052 * x + 0.0035
R = 0.9999
DL = 0.01013 ppb
BEC = 0.6707 ppb

Weight: <None>
Min Conc: <None>

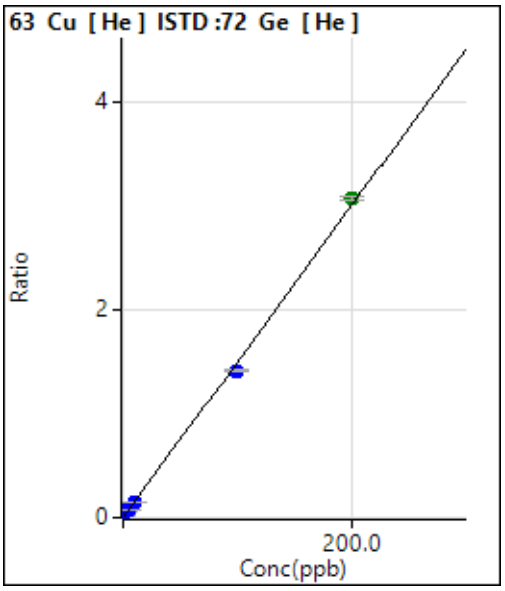


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16063.00	0.0065	P	1.7	
2	☐	2.000	3.445	69159.02	0.0281	P	2.0	72.2
3	☐	5.000	4.210	79649.29	0.0330	P	3.6	-15.8
4	☐	10.000	9.108	157483.83	0.0638	P	0.4	-8.9
5	☐	100.000	97.346	1534871.80	0.6193	A	1.6	-2.7
6	☐	200.000	201.377	3044029.54	1.2743	A	1.7	0.7

y = 0.0063 * x + 0.0065
R = 0.9998
DL = 0.05271 ppb
BEC = 1.026 ppb

Weight: <None>
Min Conc: <None>

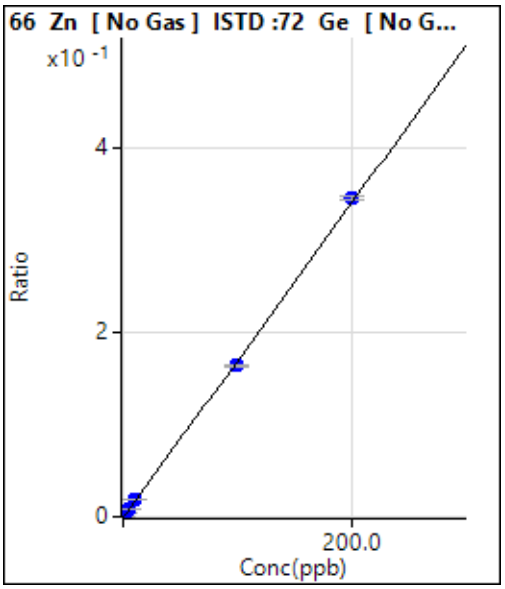
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11081.45	0.0178	P	5.7	
2	☐	2.000	3.138	40433.74	0.0649	P	3.8	56.9
3	☐	5.000	4.093	47747.55	0.0792	P	1.1	-18.1
4	☐	10.000	9.021	94799.09	0.1531	P	1.8	-9.8
5	☐	100.000	93.043	870182.93	1.4128	P	1.0	-7.0
6	☐	200.000	203.539	1873039.29	3.0695	A	1.5	1.8

y = 0.0150 * x + 0.0178
R = 0.9991
DL = 0.2041 ppb
BEC = 1.19 ppb

Weight: <None>
Min Conc: <None>

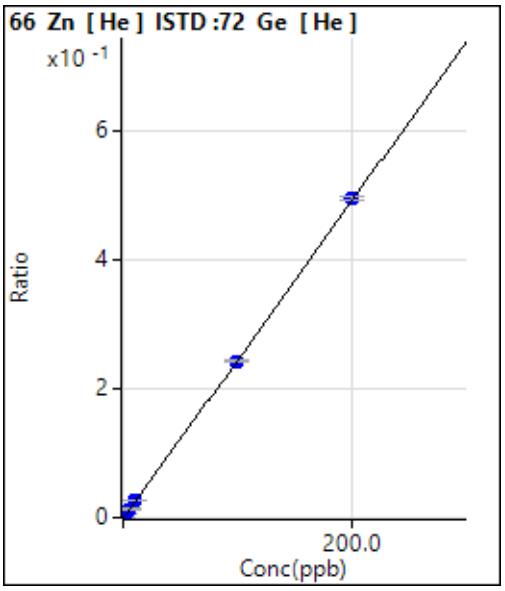


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1263.42	0.0005	P	5.0	
2	☐	2.000	2.115	10127.23	0.0041	P	1.4	5.8
3	☐	5.000	4.915	21517.40	0.0089	P	2.1	-1.7
4	☐	10.000	10.270	44553.36	0.0181	P	0.4	2.7
5	☐	100.000	95.552	405708.51	0.1637	P	1.6	-4.4
6	☐	200.000	202.212	826340.17	0.3459	P	1.6	1.1

y = 0.0017 * x + 5.0822E-004
R = 0.9996
DL = 0.04495 ppb
BEC = 0.2975 ppb

Weight: <None>
Min Conc: <None>

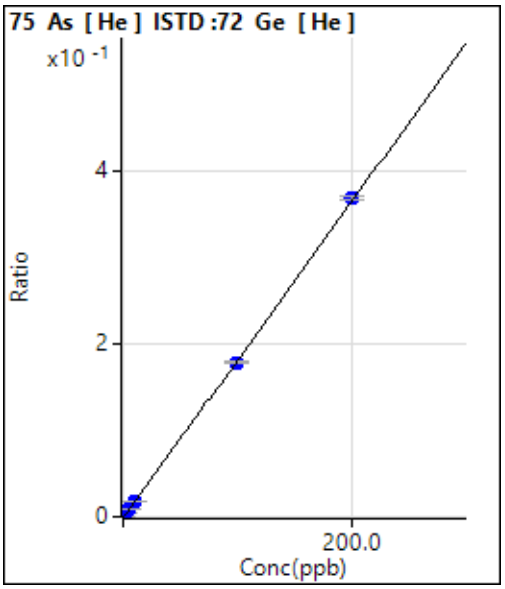
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	520.02	0.0008	P	15.5	
2	☐	2.000	2.063	3690.58	0.0059	P	4.2	3.1
3	☐	5.000	5.057	8019.17	0.0133	P	3.8	1.1
4	☐	10.000	10.209	16103.11	0.0260	P	2.8	2.1
5	☐	100.000	98.324	149826.85	0.2433	P	1.0	-1.7
6	☐	200.000	200.826	302641.23	0.4960	P	1.6	0.4

y = 0.0025 * x + 8.3700E-004
R = 0.9999
DL = 0.1582 ppb
BEC = 0.3395 ppb

Weight: <None>
Min Conc: <None>

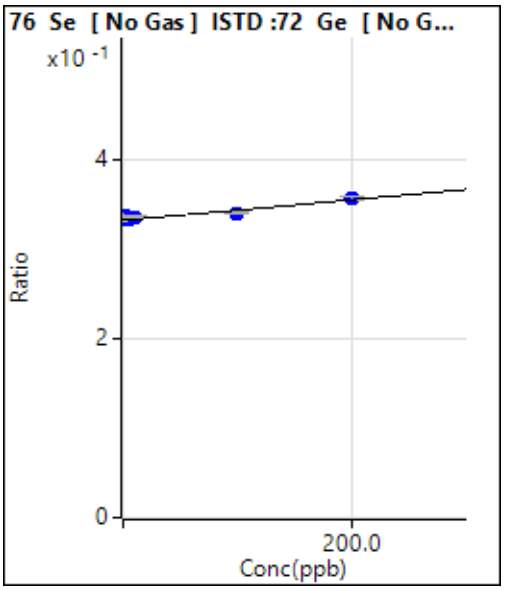


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	133.34	0.0002	P	26.7	
2	☐	2.000	1.888	2287.98	0.0037	P	1.2	-5.6
3	☐	5.000	4.859	5491.14	0.0091	P	1.3	-2.8
4	☐	10.000	9.987	11453.79	0.0185	P	1.3	-0.1
5	☐	100.000	97.435	109996.35	0.1786	P	0.8	-2.6
6	☐	200.000	201.288	224989.97	0.3687	P	0.8	0.6

y = 0.0018 * x + 2.1486E-004
R = 0.9999
DL = 0.09406 ppb
BEC = 0.1174 ppb

Weight: <None>
Min Conc: <None>

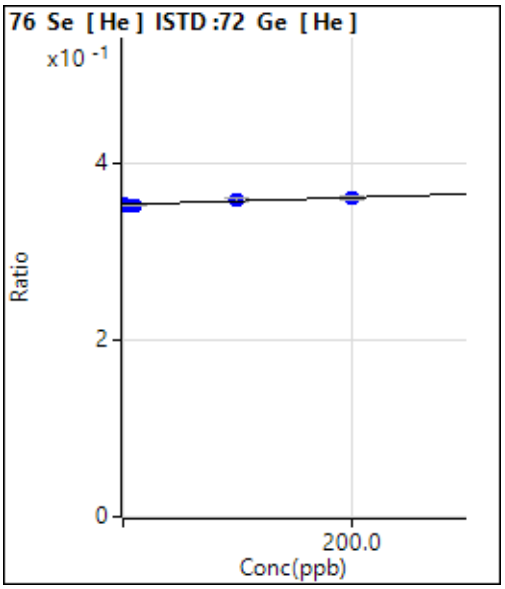
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	827000.95	0.3327	P	0.8	
2	☐	2.000	46.595	830711.26	0.3381	P	1.3	2229.8
3	☐	5.000	5.520	805516.50	0.3333	P	1.0	10.4
4	☐	10.000	31.421	830103.14	0.3363	P	0.7	214.2
5	☐	100.000	69.940	844486.94	0.3408	P	0.6	-30.1
6	☐	200.000	213.500	853757.98	0.3574	P	1.5	6.7

y = 1.1572E-004 * x + 0.3327
R = 0.9523
DL = 72.61 ppb
BEC = 2875 ppb

Weight: <None>
Min Conc: <None>

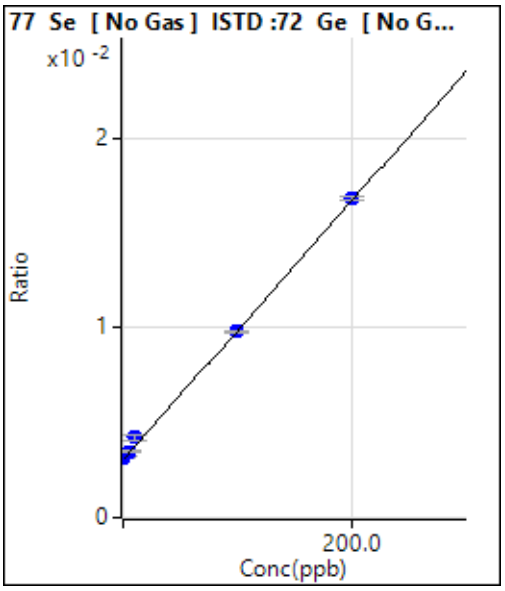


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	219548.47	0.3534	P	0.3	
2	☐	2.000	-41.485	219219.83	0.3518	P	1.2	-2174.
3	☐	5.000	-15.942	212656.55	0.3528	P	0.9	-418.8
4	☐	10.000	-13.080	218525.76	0.3529	P	0.2	-230.8
5	☐	100.000	132.376	220980.77	0.3588	P	0.7	32.4
6	☐	200.000	185.924	220244.04	0.3609	P	0.9	-7.0

y = 4.0291E-005 * x + 0.3534
R = 0.9664
DL = 90.74 ppb
BEC = 8772 ppb

Weight: <None>
Min Conc: <None>

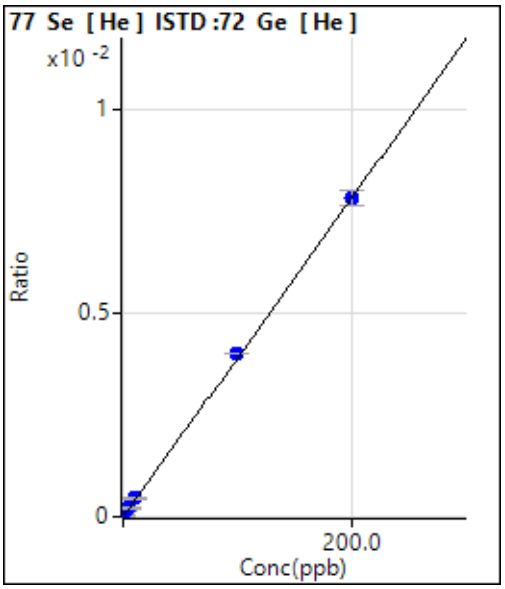
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7805.73	0.0031	P	2.8	
2	☐	2.000	3.067	8225.97	0.0033	P	4.6	53.3
3	☐	5.000	5.019	8412.78	0.0035	P	1.2	0.4
4	☐	10.000	15.828	10407.54	0.0042	P	5.5	58.3
5	☐	100.000	97.721	24268.85	0.0098	P	1.0	-2.3
6	☐	200.000	200.837	40173.44	0.0168	P	0.6	0.4

y = 6.8093E-005 * x + 0.0031
R = 0.9995
DL = 3.821 ppb
BEC = 46.1 ppb

Weight: <None>
Min Conc: <None>

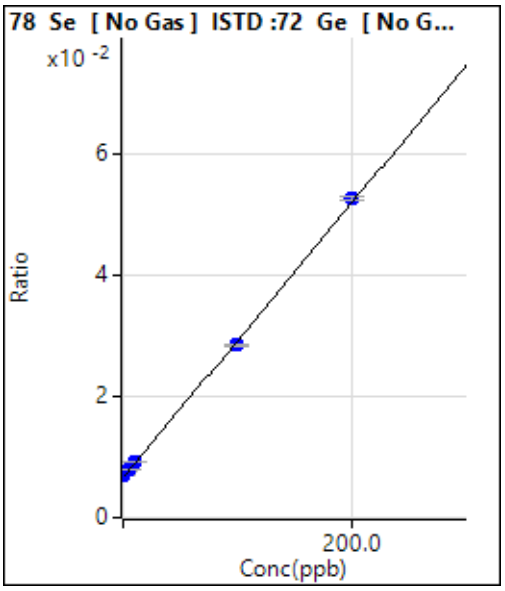


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20.00	0.0000	P	86.6	
2	☐	2.000	3.143	96.67	0.0002	P	15.9	57.1
3	☐	5.000	4.967	136.67	0.0002	P	21.9	-0.7
4	☐	10.000	10.868	283.34	0.0005	P	14.3	8.7
5	☐	100.000	101.605	2470.28	0.0040	P	1.0	1.6
6	☐	200.000	199.143	4777.60	0.0078	P	4.7	-0.4

y = 3.9155E-005 * x + 3.2091E-005
R = 0.9999
DL = 2.129 ppb
BEC = 0.8196 ppb

Weight: <None>
Min Conc: <None>

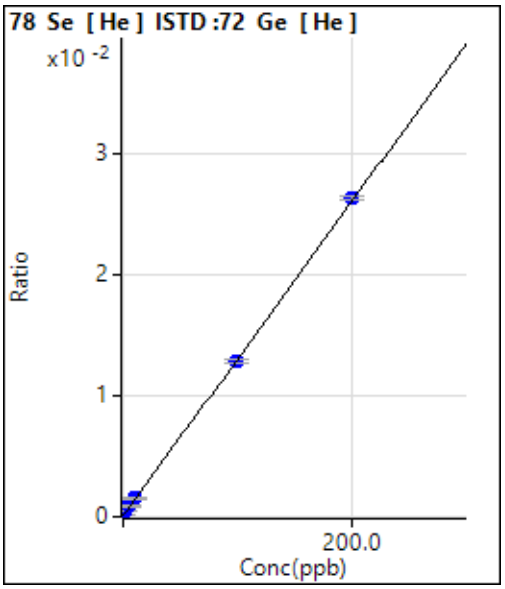
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	17157.82	0.0069	P	0.1	
2	☐	2.000	2.886	18569.69	0.0076	P	0.9	44.3
3	☐	5.000	4.971	19404.27	0.0080	P	2.1	-0.6
4	☐	10.000	10.053	22666.13	0.0092	P	2.1	0.5
5	☐	100.000	95.199	70638.30	0.0285	P	1.7	-4.8
6	☐	200.000	202.390	126207.22	0.0528	P	1.5	1.2

y = 2.2693E-004 * x + 0.0069
R = 0.9996
DL = 0.1052 ppb
BEC = 30.41 ppb

Weight: <None>
Min Conc: <None>

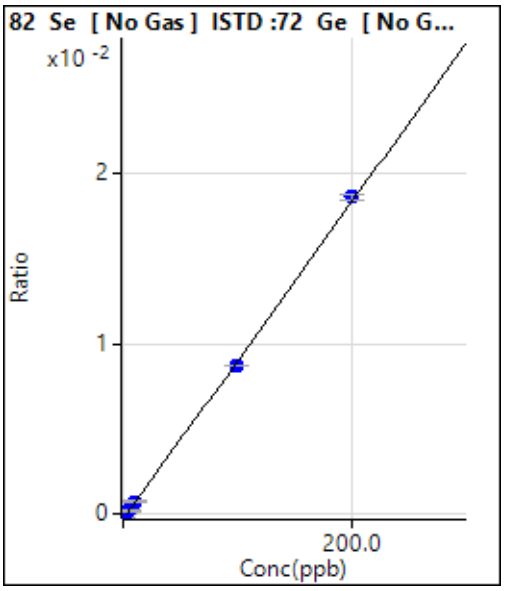


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	128.00	0.0002	P	4.8	
2	☐	2.000	2.021	292.00	0.0005	P	8.8	1.0
3	☐	5.000	5.207	532.01	0.0009	P	6.9	4.1
4	☐	10.000	10.194	948.04	0.0015	P	8.7	1.9
5	☐	100.000	97.279	7914.34	0.0129	P	3.3	-2.7
6	☐	200.000	201.345	16095.61	0.0264	P	1.6	0.7

y = 1.2998E-004 * x + 2.0602E-004
R = 0.9999
DL = 0.2305 ppb
BEC = 1.585 ppb

Weight: <None>
Min Conc: <None>

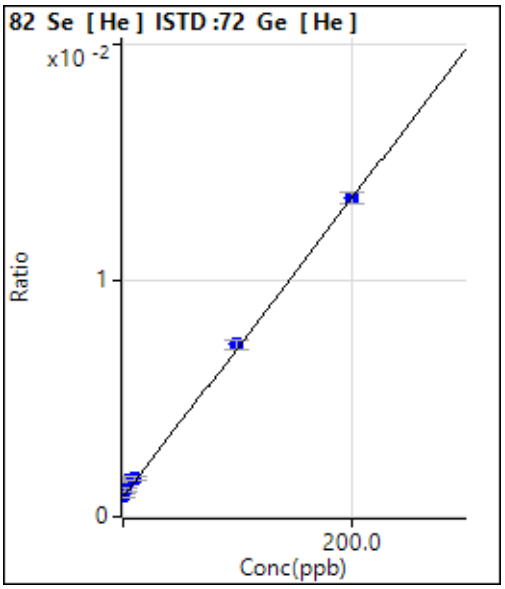
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-528.89	-0.0002	P	-18.3	
2	☐	2.000	2.507	50.96	0.0000	P	493.4	25.4
3	☐	5.000	4.690	540.12	0.0002	P	52.9	-6.2
4	☐	10.000	10.304	1843.58	0.0007	P	15.4	3.0
5	☐	100.000	95.810	21596.64	0.0087	P	1.2	-4.2
6	☐	200.000	202.082	44475.86	0.0186	P	1.6	1.0

y = 9.3185E-005 * x - 2.1295E-004
R = 0.9997
DL = 1.257 ppb
BEC = -2.285 ppb

Weight: <None>
Min Conc: <None>

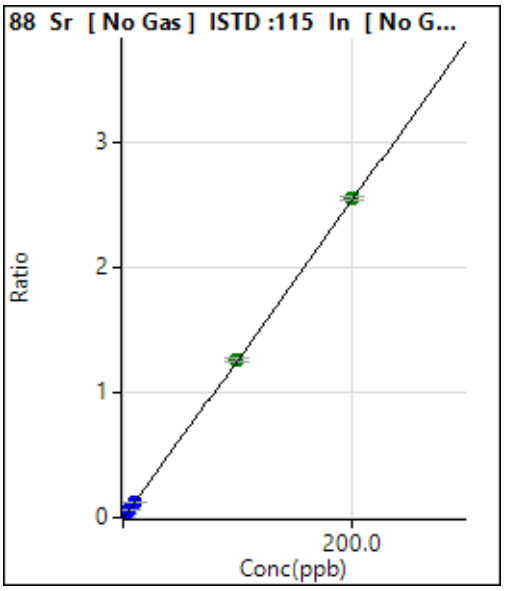


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	560.02	0.0009	P	16.5	
2	☐	2.000	3.754	710.03	0.0011	P	8.9	87.7
3	☐	5.000	10.566	946.72	0.0016	P	8.5	111.3
4	☐	10.000	11.531	1010.06	0.0016	P	11.3	15.3
5	☐	100.000	101.134	4494.17	0.0073	P	5.9	1.1
6	☐	200.000	199.200	8236.01	0.0135	P	4.2	-0.4

y = 6.3236E-005 * x + 9.0216E-004
R = 0.9997
DL = 7.074 ppb
BEC = 14.27 ppb

Weight: <None>
Min Conc: <None>

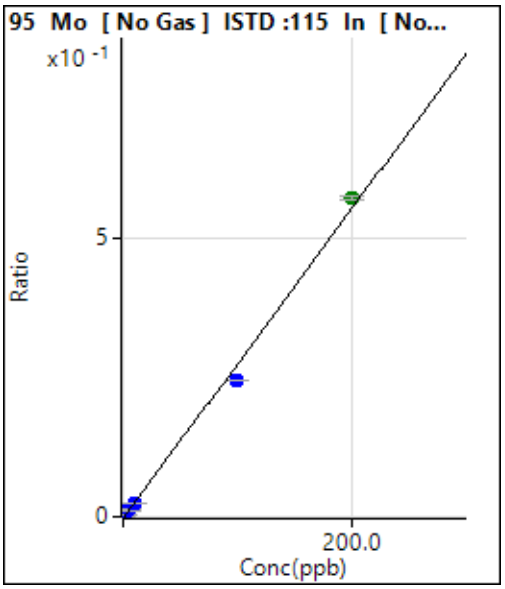
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4354.13	0.0015	P	3.9	
2	☐	2.000	1.882	73427.96	0.0254	P	0.7	-5.9
3	☐	5.000	4.665	172845.19	0.0607	P	1.1	-6.7
4	☐	10.000	9.611	357217.52	0.1236	P	1.0	-3.9
5	☐	100.000	98.849	3554677.65	1.2571	A	2.2	-1.2
6	☐	200.000	200.604	7126515.31	2.5496	A	1.4	0.3

y = 0.0127 * x + 0.0015
R = 1.0000
DL = 0.01384 ppb
BEC = 0.1174 ppb

Weight: <None>
Min Conc: <None>

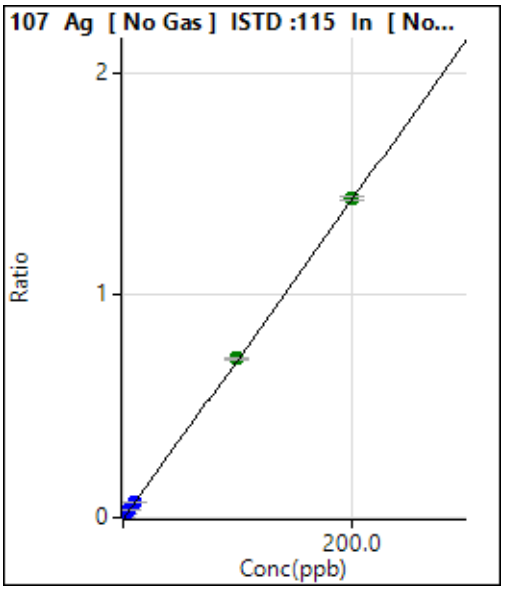


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	86.67	0.0000	P	41.3	
2	☐	2.000	1.695	13707.24	0.0047	P	0.7	-15.3
3	☐	5.000	4.338	34394.73	0.0121	P	1.8	-13.2
4	☐	10.000	8.927	71823.42	0.0248	P	1.6	-10.7
5	☐	100.000	88.076	692467.90	0.2448	P	0.7	-11.9
6	☐	200.000	206.035	1600804.61	0.5727	A	1.7	3.0

y = 0.0028 * x + 2.9768E-005
R = 0.9976
DL = 0.01328 ppb
BEC = 0.01071 ppb

Weight: <None>
Min Conc: <None>

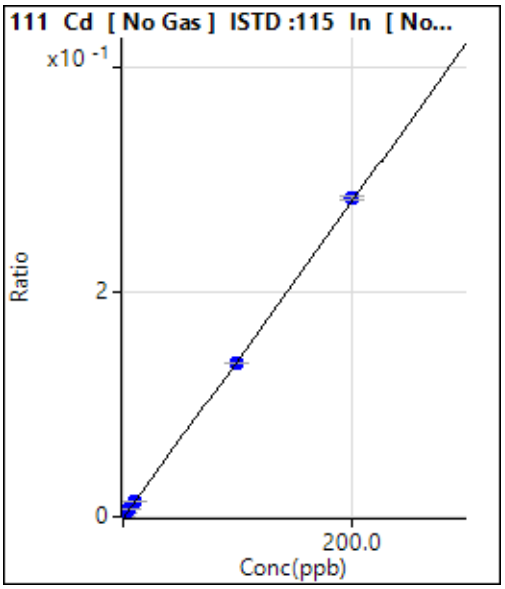
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	416.68	0.0001	P	1.2	
2	☐	2.000	1.900	39800.10	0.0138	P	0.3	-5.0
3	☐	5.000	4.674	95727.99	0.0336	P	2.4	-6.5
4	☐	10.000	9.513	197562.67	0.0683	P	1.2	-4.9
5	☐	100.000	99.693	2021531.33	0.7148	A	1.9	-0.3
6	☐	200.000	200.187	4012051.29	1.4353	A	1.2	0.1

y = 0.0072 * x + 1.4260E-004
R = 1.0000
DL = 0.0007265 ppb
BEC = 0.01989 ppb

Weight: <None>
Min Conc: <None>

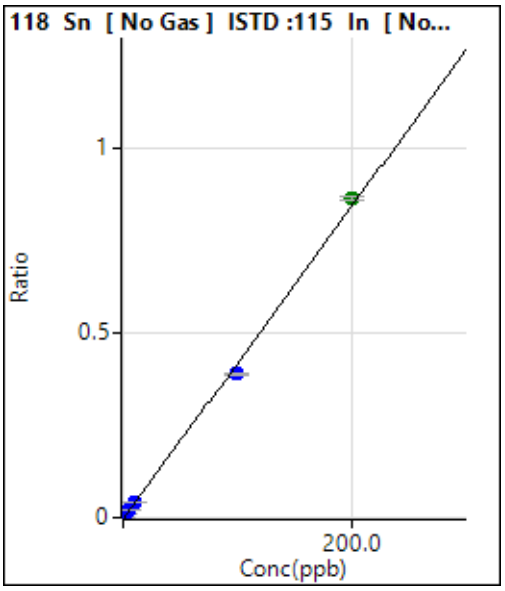


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	43.33	0.0000	P	54.8	
2	☐	2.000	2.030	8316.10	0.0029	P	1.7	1.5
3	☐	5.000	4.825	19384.52	0.0068	P	3.0	-3.5
4	☐	10.000	9.992	40743.09	0.0141	P	1.3	-0.1
5	☐	100.000	97.035	386720.48	0.1367	P	1.0	-3.0
6	☐	200.000	201.487	793644.65	0.2839	P	0.7	0.7

y = 0.0014 * x + 1.4904E-005
R = 0.9998
DL = 0.0174 ppb
BEC = 0.01058 ppb

Weight: <None>
Min Conc: <None>

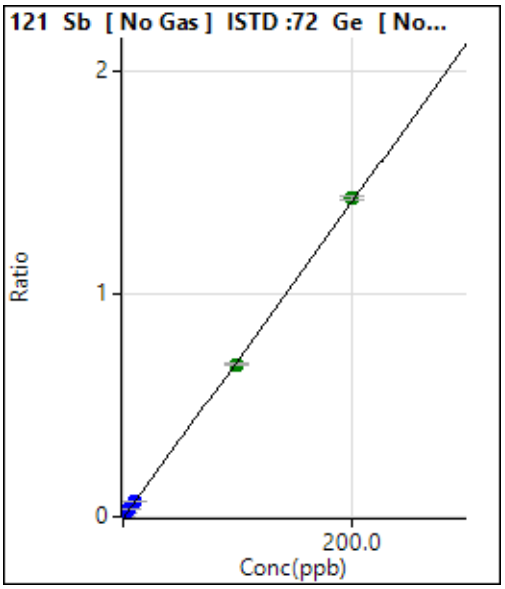
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	983.39	0.0003	P	9.8	
2	☐	2.000	1.828	23387.83	0.0081	P	0.5	-8.6
3	☐	5.000	4.585	56257.20	0.0198	P	1.8	-8.3
4	☐	10.000	9.334	115376.86	0.0399	P	0.8	-6.7
5	☐	100.000	91.790	1101466.86	0.3895	P	1.4	-8.2
6	☐	200.000	204.150	2420460.02	0.8659	A	0.9	2.1

y = 0.0042 * x + 3.3650E-004
R = 0.9988
DL = 0.0234 ppb
BEC = 0.07937 ppb

Weight: <None>
Min Conc: <None>

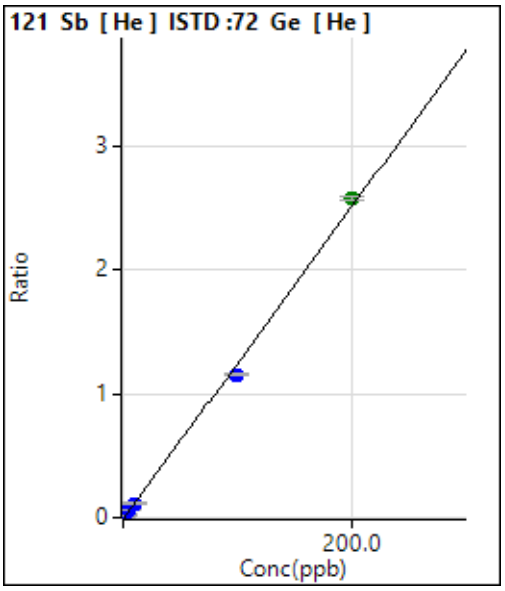


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	583.36	0.0002	P	10.2	
2	☐	2.000	1.850	32767.97	0.0133	P	1.8	-7.5
3	☐	5.000	4.572	78832.98	0.0326	P	1.2	-8.6
4	☐	10.000	9.228	161920.44	0.0656	P	1.0	-7.7
5	☐	100.000	96.548	1695471.64	0.6841	A	0.7	-3.5
6	☐	200.000	201.777	3415485.36	1.4295	A	0.8	0.9

y = 0.0071 * x + 2.3452E-004
R = 0.9998
DL = 0.01009 ppb
BEC = 0.03311 ppb

Weight: <None>
Min Conc: <None>

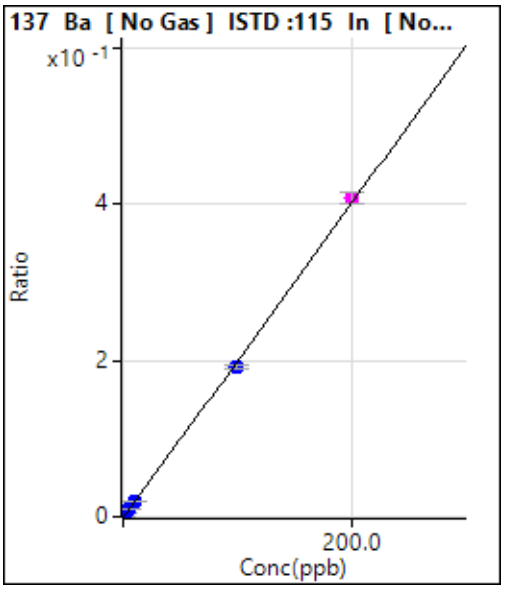
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	233.34	0.0004	P	13.7	
2	☐	2.000	1.801	14391.44	0.0231	P	4.9	-9.9
3	☐	5.000	4.600	35204.18	0.0584	P	1.2	-8.0
4	☐	10.000	9.162	71792.65	0.1159	P	1.6	-8.4
5	☐	100.000	91.291	709511.50	1.1519	P	1.0	-8.7
6	☐	200.000	204.408	1573613.05	2.5788	A	1.8	2.2

y = 0.0126 * x + 3.7586E-004
R = 0.9987
DL = 0.01225 ppb
BEC = 0.0298 ppb

Weight: <None>
Min Conc: <None>

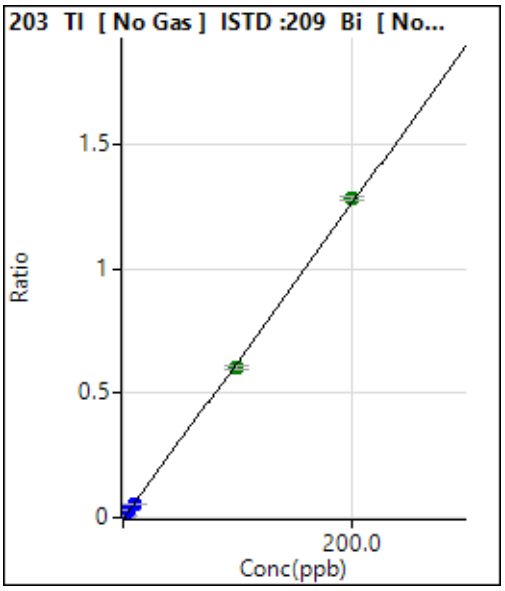


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1166.74	0.0004	P	3.1	
2	☐	2.000	1.963	12602.99	0.0044	P	0.3	-1.8
3	☐	5.000	4.743	28341.26	0.0100	P	2.9	-5.1
4	☐	10.000	9.659	57453.52	0.0199	P	0.7	-3.4
5	☐	100.000	95.346	544711.26	0.1926	P	2.2	-4.7
6	☐	200.000	202.351	1141810.38	0.4084	M	3.1	1.2

y = 0.0020 * x + 3.9936E-004
R = 0.9996
DL = 0.01857 ppb
BEC = 0.1981 ppb

Weight: <None>
Min Conc: <None>

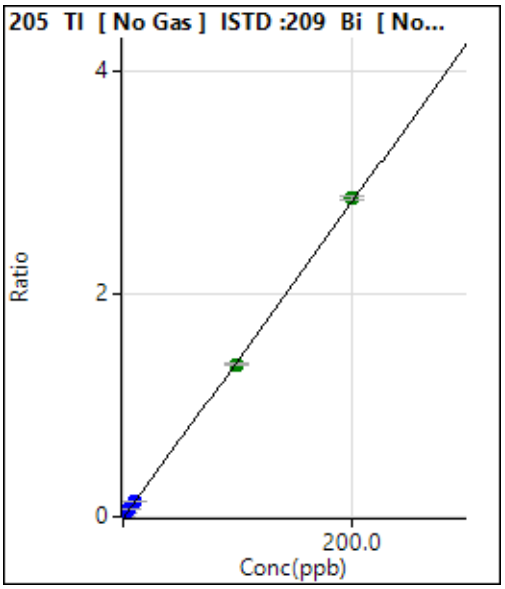
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	203.34	0.0001	P	6.6	
2	☐	2.000	1.724	28068.52	0.0110	P	2.2	-13.8
3	☐	5.000	4.392	68846.23	0.0279	P	1.2	-12.2
4	☐	10.000	8.763	142273.32	0.0556	P	1.0	-12.4
5	☐	100.000	95.222	1507373.78	0.6035	A	1.6	-4.8
6	☐	200.000	202.469	3110244.95	1.2832	A	1.1	1.2

y = 0.0063 * x + 8.0043E-005
R = 0.9996
DL = 0.002487 ppb
BEC = 0.01263 ppb

Weight: <None>
Min Conc: <None>

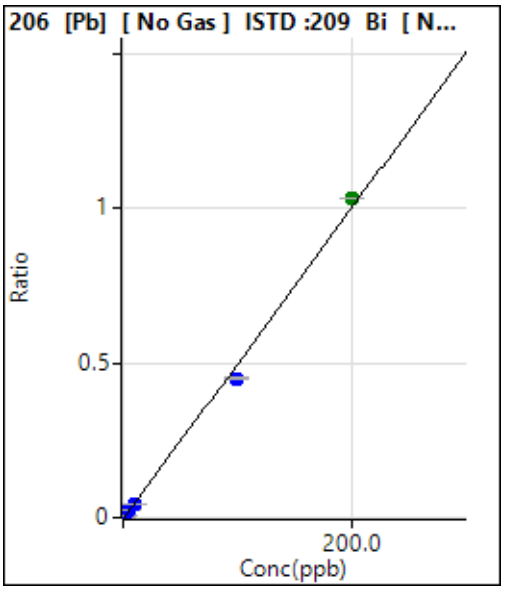


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	450.02	0.0002	P	6.8	
2	☐	2.000	1.835	66865.53	0.0262	P	1.6	-8.3
3	☐	5.000	4.635	162720.48	0.0660	P	0.5	-7.3
4	☐	10.000	9.313	338634.06	0.1324	P	0.8	-6.9
5	☐	100.000	96.357	3416703.39	1.3680	A	0.7	-3.6
6	☐	200.000	201.866	6945935.73	2.8657	A	0.8	0.9

y = 0.0142 * x + 1.7697E-004
R = 0.9998
DL = 0.002527 ppb
BEC = 0.01247 ppb

Weight: <None>
Min Conc: <None>

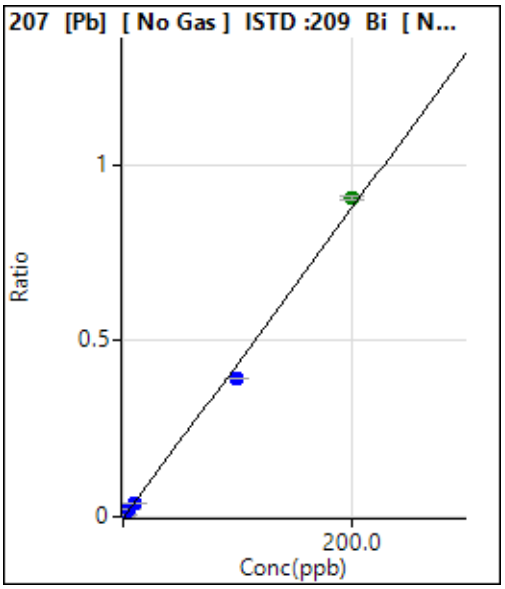
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	793.37	0.0003	P	7.5	
2	☐	2.000	1.780	23639.43	0.0093	P	1.1	-11.0
3	☐	5.000	4.509	56718.89	0.0230	P	1.1	-9.8
4	☐	10.000	9.039	117140.00	0.0458	P	0.6	-9.6
5	☐	100.000	89.589	1126506.13	0.4510	P	0.6	-10.4
6	☐	200.000	205.268	2504000.17	1.0330	A	0.4	2.6

y = 0.0050 * x + 3.1237E-004
R = 0.9982
DL = 0.01405 ppb
BEC = 0.06209 ppb

Weight: <None>
Min Conc: <None>

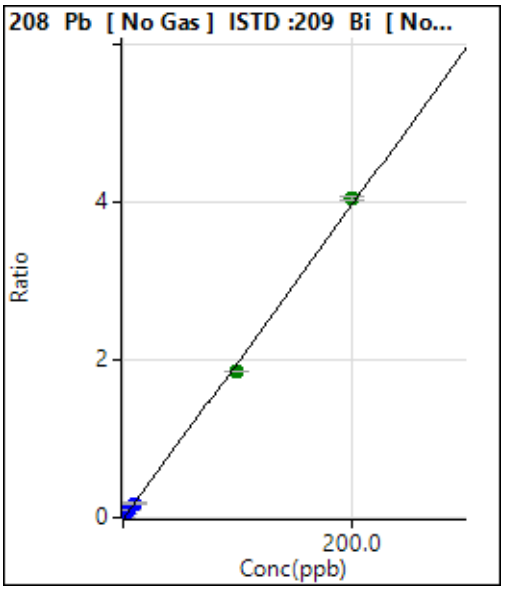


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	560.03	0.0002	P	8.8	
2	☐	2.000	1.768	20413.69	0.0080	P	2.7	-11.6
3	☐	5.000	4.416	48521.46	0.0197	P	2.8	-11.7
4	☐	10.000	9.009	102072.54	0.0399	P	1.1	-9.9
5	☐	100.000	88.810	977484.51	0.3914	P	0.6	-11.2
6	☐	200.000	205.662	2196049.97	0.9060	A	1.1	2.8

y = 0.0044 * x + 2.2022E-004
R = 0.9979
DL = 0.01325 ppb
BEC = 0.05 ppb

Weight: <None>
Min Conc: <None>

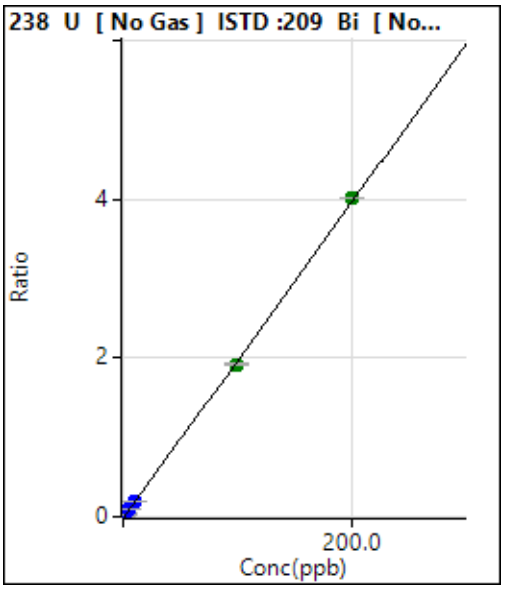
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2800.18	0.0011	P	3.6	
2	☐	2.000	1.807	94505.45	0.0371	P	1.1	-9.7
3	☐	5.000	4.525	224796.60	0.0911	P	0.7	-9.5
4	☐	10.000	9.121	467084.86	0.1826	P	0.5	-8.8
5	☐	100.000	93.151	4631975.71	1.8546	A	0.6	-6.8
6	☐	200.000	203.482	9816383.81	4.0499	A	0.7	1.7

y = 0.0199 * x + 0.0011
R = 0.9992
DL = 0.005977 ppb
BEC = 0.05538 ppb

Weight: <None>
Min Conc: <None>

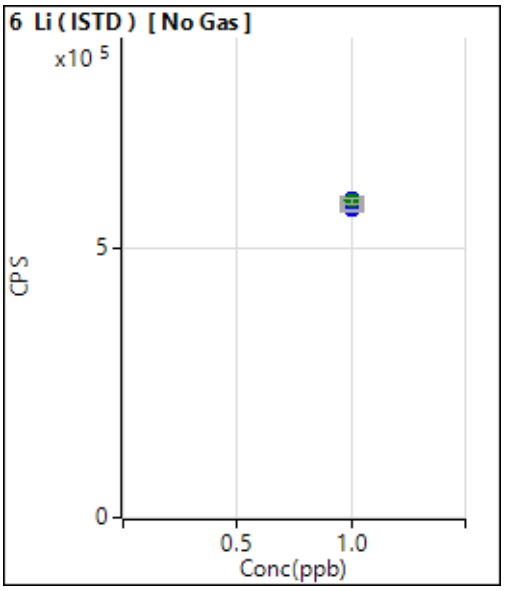


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	480.02	0.0002	P	9.8	
2	☐	2.000	1.811	92534.45	0.0363	P	1.2	-9.4
3	☐	5.000	4.600	226576.96	0.0919	P	0.5	-8.0
4	☐	10.000	9.147	466816.93	0.1825	P	0.6	-8.5
5	☐	100.000	96.548	4806500.87	1.9244	A	0.5	-3.5
6	☐	200.000	201.781	9748105.90	4.0217	A	0.5	0.9

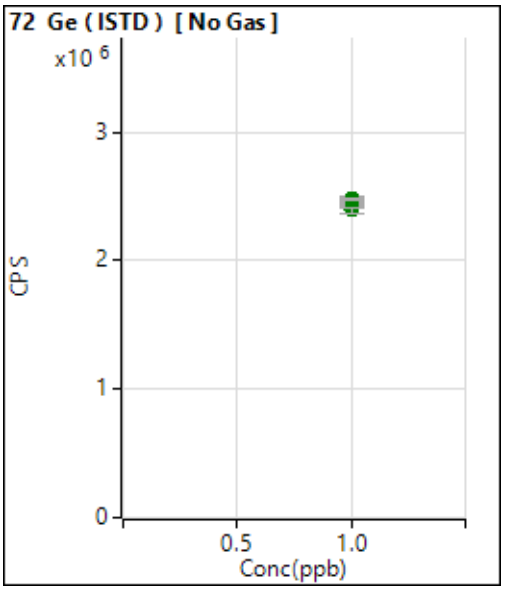
y = 0.0199 * x + 1.8872E-004
R = 0.9998
DL = 0.002781 ppb
BEC = 0.009469 ppb

Weight: <None>
Min Conc: <None>

Calibration for 287_ICV.d

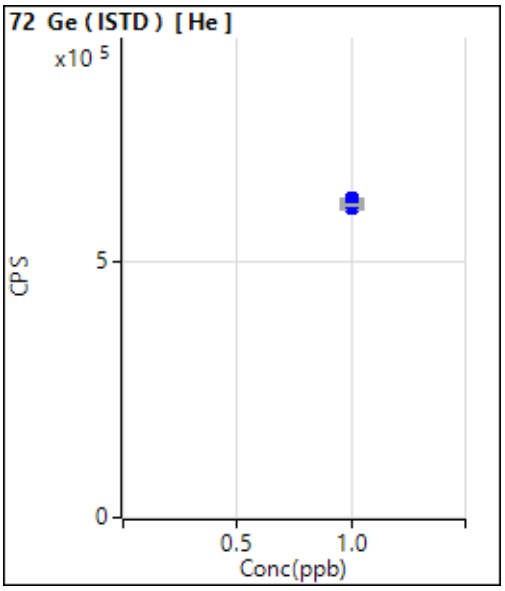


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		592897.16		P	1.2	
2	☐	1.000		590154.32		P	0.9	
3	☐	1.000		572012.55		P	1.2	
4	☐	1.000		581638.40		P	1.4	
5	☐	1.000		569987.32		P	0.8	
6	☐	1.000		587885.55		A	2.3	

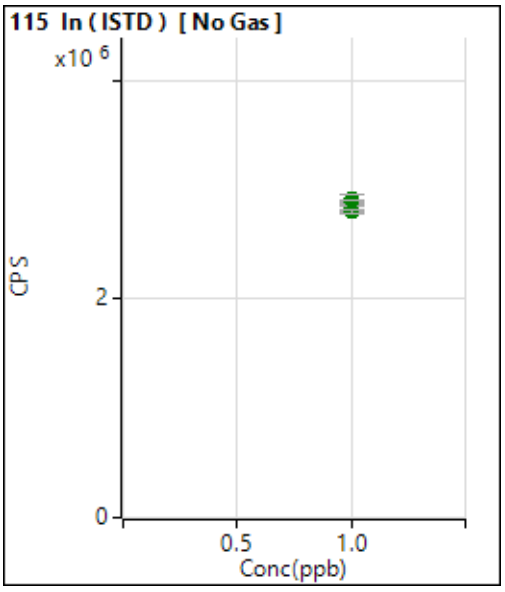


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2485987.78		A	1.0	
2	☐	1.000		2457326.32		A	0.7	
3	☐	1.000		2416766.58		A	0.8	
4	☐	1.000		2468233.71		A	0.5	
5	☐	1.000		2478199.55		A	0.8	
6	☐	1.000		2389223.30		A	1.5	

Calibration for 287_ICV.d

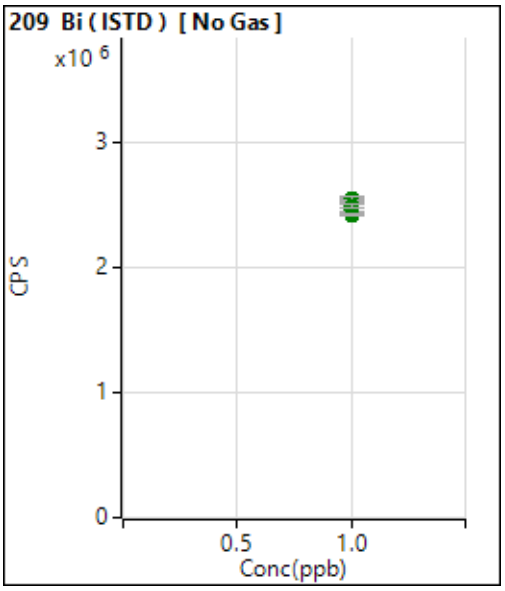


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		621186.74		P	0.7	
2	☐	1.000		623221.85		P	0.6	
3	☐	1.000		602793.38		P	0.6	
4	☐	1.000		619207.89		P	0.1	
5	☐	1.000		615946.84		P	0.7	
6	☐	1.000		610235.45		P	0.7	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2922371.40		A	1.8	
2	☐	1.000		2891930.23		A	1.5	
3	☐	1.000		2845754.13		A	1.9	
4	☐	1.000		2890988.54		A	1.2	
5	☐	1.000		2828446.19		A	1.9	
6	☐	1.000		2795472.58		A	1.1	

Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2541423.61		A	1.3	
2	☐	1.000		2550490.95		A	1.1	
3	☐	1.000		2466566.63		A	1.1	
4	☐	1.000		2558070.07		A	0.8	
5	☐	1.000		2497633.04		A	0.8	
6	☐	1.000		2423929.65		A	0.9	

Sample Report

Sample Table

Sample Name	LLCCV2
Data File Name	288LCV2.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-31T00:12:50-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	280CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	1.866	1.866	7.66	53165	0.00	2	
Be	9	1	No Gas	1.956	1.956	4.97	5389	0.04	2	
V	51	2	He	1.745	1.745	1.59	14168	0.01	2	
Cr	52	2	He	1.859	1.859	3.35	15452	0.01	2	
Fe	56	2	He	203.155	203.155	2.94	1531078	0.01	200	
Se	78	2	He	2.191	2.191	24.11	306	0.72	2	
As	75	2	He	1.950	1.950	4.75	2359	0.08	2	
Ca	44	2	He	192.140	192.140	4.05	6765	2.84	200	
Na	23	2	He	185.180	185.180	0.50	292966	0.06	200	
Mg	24	2	He	183.253	183.253	1.88	109760	0.17	200	
K	39	2	He	188.208	188.208	0.78	170418	0.11	200	
Mn	55	2	He	1.904	1.904	3.71	11298	0.02	2	
Co	59	2	He	1.875	1.875	2.11	24963	0.01	2	
Ni	60	2	He	2.981	2.981	5.73	11949	0.02	2	NewName Main CR1 Failed
Cu	63	2	He	3.201	3.201	5.36	41035	0.01	2	NewName Main CR1 Failed
Zn	66	2	He	2.118	2.118	4.96	3777	0.06	2	
Al	27	2	He	-2.949	-2.949	-85.55	3821	-0.08	2	NewName Main CR1 Failed
B	11	1	No Gas	16.683	16.683	3.62	36522	0.05	10	NewName Main CR1 Failed
Al	27	1	No Gas	-1.516	-1.516	-13.69	187256	0.00	2	NewName Main CR1 Failed
Si	28	1	No Gas	11.849	11.849	9.77	404756	0.00	10	
Ag	107	1	No Gas	1.890	1.890	4.49	39767	0.00	2	
Cd	111	1	No Gas	1.871	1.871	2.85	7702	0.02	2	
Sr	88	1	No Gas	1.921	1.921	0.78	75207	0.00	2	
Mo	95	1	No Gas	1.730	1.730	2.94	14054	0.01	2	
Sn	118	1	No Gas	1.836	1.836	2.72	23588	0.01	2	
Sb	121	1	No Gas	1.873	1.873	1.92	33366	0.01	2	
Ba	137	1	No Gas	1.938	1.938	2.52	12516	0.02	2	
Tl	205	1	No Gas	1.896	1.896	1.63	69561	0.00	2	
Tl	203	1	No Gas	1.789	1.789	1.30	29318	0.01	2	
Pb	208	1	No Gas	1.847	1.847	3.24	97153	0.00	2	
U	238	1	No Gas	1.818	1.818	1.41	93516	0.00	2	
Ca	43	2	He	218.616	218.616	8.71	460	47.52	200	
Sb	121	2	He	1.888	1.888	3.40	15079	0.01	2	
Ti	47	2	He	1.643	1.643	7.07	373	0.44	200	
Cu	63	1	No Gas	3.349	3.349	1.19	68054	0.00	2	NewName Main CR1 Failed
Se	82	1	No Gas	2.823	2.823	22.27	124	2.27	2	NewName Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	597158	0.78	592897	100.72	70	120	
Ge	72	2	He	623429	0.27	621187	100.36	70	120	
Ge	72	1	No Gas	2470931	1.13	2485988	99.39	70	120	
In	115	1	No Gas	2905449	1.02	2922371	99.42	70	120	
Bi	209	1	No Gas	2567403	1.05	2541424	101.02	70	120	

Sample Report

Sample Table

Sample Name	LLCCV5
Data File Name	289LCV5.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-31T00:14:44-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	280CALB.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	4.663	4.663	1.72	77963	0.01	5	
Be	9	1	No Gas	4.907	4.907	1.47	13113	0.04	5	
V	51	2	He	4.371	4.371	1.15	32660	0.01	5	
Cr	52	2	He	4.662	4.662	1.50	37716	0.01	5	
Fe	56	2	He	500.203	500.203	0.45	3551082	0.01	500	
Se	78	2	He	4.685	4.685	8.32	509	0.92	5	
As	75	2	He	4.931	4.931	3.52	5770	0.09	5	
Ca	44	2	He	477.446	477.446	1.27	15546	3.07	500	
Na	23	2	He	458.984	458.984	1.31	581770	0.08	500	
Mg	24	2	He	457.207	457.207	0.69	269281	0.17	500	
K	39	2	He	462.433	462.433	0.16	339982	0.14	500	
Mn	55	2	He	4.749	4.749	3.23	24482	0.02	5	
Co	59	2	He	4.753	4.753	0.33	62918	0.01	5	
Ni	60	2	He	4.417	4.417	4.35	16670	0.03	5	
Cu	63	2	He	4.060	4.060	1.18	49136	0.01	5	
Zn	66	2	He	5.057	5.057	2.59	8306	0.06	5	
Al	27	2	He	-3.536	-3.536	-86.62	3677	-0.10	5	NewName2 Main CR1 Failed
B	11	1	No Gas	26.588	26.588	2.36	51491	0.05	25	
Al	27	1	No Gas	0.351	0.351	235.54	214408	0.00	5	NewName2 Main CR1 Failed
Si	28	1	No Gas	24.827	24.827	1.40	490291	0.01	25	
Ag	107	1	No Gas	4.777	4.777	2.62	99059	0.00	5	
Cd	111	1	No Gas	4.987	4.987	3.05	20286	0.02	5	
Sr	88	1	No Gas	4.770	4.770	1.68	178816	0.00	5	
Mo	95	1	No Gas	4.425	4.425	2.82	35514	0.01	5	
Sn	118	1	No Gas	4.612	4.612	1.97	57295	0.01	5	
Sb	121	1	No Gas	4.603	4.603	1.90	81304	0.01	5	
Ba	137	1	No Gas	4.763	4.763	3.38	28809	0.02	5	
Tl	205	1	No Gas	4.662	4.662	2.21	169878	0.00	5	
Tl	203	1	No Gas	4.393	4.393	2.84	71484	0.01	5	
Pb	208	1	No Gas	4.513	4.513	1.70	232758	0.00	5	
U	238	1	No Gas	4.539	4.539	1.67	232101	0.00	5	
Ca	43	2	He	456.825	456.825	9.94	897	50.94	500	
Sb	121	2	He	4.591	4.591	2.90	36387	0.01	5	
Ti	47	2	He	4.809	4.809	1.52	1030	0.47	5	
Cu	63	1	No Gas	4.243	4.243	2.81	82128	0.01	5	
Se	82	1	No Gas	5.928	5.928	10.26	840	0.71	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	583097	0.51	592897	98.35	70	120	
Ge	72	2	He	624273	0.40	621187	100.50	70	120	
Ge	72	1	No Gas	2475875	0.44	2485988	99.59	70	120	
In	115	1	No Gas	2880567	0.69	2922371	98.57	70	120	
Bi	209	1	No Gas	2561046	1.70	2541424	100.77	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICCB
Data File Name	290_ICB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-31T00:16:38-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	280CALB.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	-0.017	-85.6	33430	0.4	0.5	
Be	9	1	No Gas	-0.002	-317.2	50	26.5	0.5	
V	51	2	He	-0.049	-19.5	1513	4.6	2.5	
Cr	52	2	He	0.146	11.4	1807	7.1	2.5	
Fe	56	2	He	-8.230	-19.1	93746	10.6	100	
Se	78	2	He	0.281	147.0	146	21.7	1	
As	75	2	He	-0.026	-36.7	101	10.6	2.5	
Ca	44	2	He	-9.796	-18.0	547	9.4	100	
Na	23	2	He	2.890	36.8	97785	1.3	100	
Mg	24	2	He	-1.806	-20.2	2174	9.0	100	
K	39	2	He	2.380	22.6	53942	0.9	100	
Mn	55	2	He	-0.145	-5.7	1767	2.3	2.5	
Co	59	2	He	0.002	188.3	297	13.6	2.5	
Ni	60	2	He	-0.451	-4.7	693	9.8	2.5	
Cu	63	2	He	-0.703	-5.9	4397	8.2	1	
Zn	66	2	He	0.114	19.2	673	4.8	2.5	
Al	27	2	He	-8.405	-15.2	2364	12.7	5	
B	11	1	No Gas	2.171	14.0	12125	3.4	0.5	ICB Main CR1 Failed
Al	27	1	No Gas	-5.613	-4.6	123980	1.3	5	
Si	28	1	No Gas	-9.276	-8.1	257862	1.0	10	
Ag	107	1	No Gas	0.008	44.7	573	13.3	2.5	
Cd	111	1	No Gas	0.004	105.2	57	27.0	1	
Sr	88	1	No Gas	-0.044	-2.4	2624	1.8	2.5	
Mo	95	1	No Gas	0.009	42.3	157	19.5	2.5	
Sn	118	1	No Gas	0.022	31.8	1217	6.8	5	
Sb	121	1	No Gas	0.015	39.3	810	13.1	2.5	
Ba	137	1	No Gas	-0.068	-13.8	740	7.5	2.5	
Tl	205	1	No Gas	0.005	44.7	620	12.9	1	
Tl	203	1	No Gas	0.001	76.5	217	7.1	1	
Pb	208	1	No Gas	-0.004	-81.1	2527	7.0	2.5	
U	238	1	No Gas	0.001	125.7	540	16.5	2.5	
Ca	43	2	He	-15.916	-71.0	30	66.7	100	
Sb	121	2	He	0.015	45.7	337	14.7	2.5	
Ti	47	2	He	-0.111	-44.9	10	100.0	2.5	
Se	82	1	No Gas	0.472	100.8	-402	-24.8	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	567075	0.69	592897	95.64	70	120	
Ge	72	2	He	602366	0.41	621187	96.97	70	120	
Ge	72	1	No Gas	2384515	1.66	2485988	95.92	70	120	
In	115	1	No Gas	2832122	0.45	2922371	96.91	70	120	
Bi	209	1	No Gas	2472761	0.69	2541424	97.30	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	292_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-31T00:20:25-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	280CALB.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	107.724	1.760	997892	1.96	100	107.7	90	110	
Be	9	1	No Gas	103.410	0.875	264595	0.68	100	103.4	90	110	
V	51	2	He	91.980	0.368	646026	0.67	100	92.0	90	110	
Cr	52	2	He	97.443	0.870	770555	0.48	100	97.4	90	110	
Fe	56	2	He	10123.131	1.288	68600977	0.74	10000	101.2	90	110	
Se	78	2	He	103.074	1.123	8453	1.00	100	103.1	90	110	
As	75	2	He	102.352	1.527	116561	1.01	100	102.4	90	110	
Ca	44	2	He	10089.345	0.772	309607	0.62	10000	100.9	90	110	
Na	23	2	He	10076.544	0.223	10663509	0.73	10000	100.8	90	110	
Mg	24	2	He	10074.858	1.620	5837005	1.07	10000	100.7	90	110	
K	39	2	He	10185.564	0.971	6314503	0.44	10000	101.9	90	110	
Mn	55	2	He	101.539	0.869	470348	0.45	100	101.5	90	110	
Co	59	2	He	103.188	0.857	1353652	0.32	100	103.2	90	110	
Ni	60	2	He	101.451	0.712	333059	0.20	100	101.5	90	110	
Cu	63	2	He	96.656	0.837	911566	0.28	100	96.7	90	110	
Zn	66	2	He	102.407	0.816	157412	0.46	100	102.4	90	110	
Al	27	2	He	97.505	1.470	29024	1.57	100	97.5	90	110	
B	11	1	No Gas	513.316	1.214	797345	0.57	500	102.7	90	110	
Al	27	1	No Gas	97.932	2.883	1594849	0.69	100	97.9	90	110	
Si	28	1	No Gas	502.526	3.734	3559284	1.44	5000	10.1	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	103.286	0.527	2101739	0.69	100	103.3	90	110	
Cd	111	1	No Gas	100.498	0.507	401897	0.39	100	100.5	90	110	
Sr	88	1	No Gas	102.930	1.493	3714376	1.25	100	102.9	90	110	
Mo	95	1	No Gas	91.211	1.213	719547	1.15	100	91.2	90	110	
Sn	118	1	No Gas	104.115	2.405	1253513	1.96	100	104.1	90	110	
Sb	121	1	No Gas	101.020	2.087	1749081	0.55	100	101.0	90	110	
Ba	137	1	No Gas	98.372	1.132	563963	0.92	100	98.4	90	110	
Tl	205	1	No Gas	101.100	1.370	3566250	0.94	100	101.1	90	110	
Tl	203	1	No Gas	97.338	2.256	1532877	1.77	100	97.3	90	110	
Pb	208	1	No Gas	96.936	0.889	4795259	0.45	100	96.9	90	110	
U	238	1	No Gas	98.594	1.692	4882764	1.27	100	98.6	90	110	
Ca	43	2	He	9921.853	2.339	18146	1.89	10000	99.2	90	110	
Sb	121	2	He	94.284	0.668	739269	0.63	100	94.3	90	110	
Ti	47	2	He	100.427	2.022	20749	2.17	100	100.4	90	110	
Cu	63	1	No Gas	102.214	1.293	1588490	1.66	100	102.2	90	110	
Se	82	1	No Gas	101.893	1.693	22684	2.01	100	101.9	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	560638	1.53	592897	94.56	70	120	
Ge	72	2	He	621400	0.55	621187	100.03	70	120	
Ge	72	1	No Gas	2444359	2.56	2485988	98.33	70	120	
In	115	1	No Gas	2837878	0.64	2922371	97.11	70	120	
Bi	209	1	No Gas	2484770	0.48	2541424	97.77	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	293_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-31T00:22:12-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	280CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.037	113.1	34305	0.6	0.5	
Be	9	1	No Gas	0.003	152.0	62	16.9	0.5	
V	51	2	He	-0.072	-16.9	1407	6.2	2.5	
Cr	52	2	He	0.034	32.6	990	9.0	2.5	
Fe	56	2	He	-12.851	-11.1	65971	14.9	100	
Se	78	2	He	0.078	627.7	135	29.6	2	
As	75	2	He	-0.044	-25.2	84	14.9	2.5	
Ca	44	2	He	-6.169	-55.0	680	15.5	100	
Na	23	2	He	-0.730	-75.1	97784	0.8	100	
Mg	24	2	He	-2.662	-10.4	1760	9.4	100	
K	39	2	He	2.015	117.5	55826	2.8	100	
Mn	55	2	He	-0.234	-5.1	1420	3.9	2.5	
Co	59	2	He	-0.007	-40.0	197	17.9	2.5	
Ni	60	2	He	-0.609	-1.2	203	12.4	2.5	
Cu	63	2	He	-0.819	-4.6	3481	10.4	2	
Zn	66	2	He	-0.026	-100.4	483	8.6	2.5	
Al	27	2	He	-8.776	-19.6	2364	18.6	5	
B	11	1	No Gas	5.991	15.0	18267	7.2	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-4.671	-23.5	140035	9.8	5	
Si	28	1	No Gas	-9.629	-11.5	261453	1.5	10	
Ag	107	1	No Gas	0.007	27.2	560	5.4	2.5	
Cd	111	1	No Gas	0.002	132.0	50	20.0	1	
Sr	88	1	No Gas	-0.026	-25.2	3337	8.4	2.5	
Mo	95	1	No Gas	0.014	10.0	197	5.9	2.5	
Sn	118	1	No Gas	0.042	15.6	1473	3.4	5	
Sb	121	1	No Gas	0.041	22.3	1283	11.7	2.5	
Ba	137	1	No Gas	-0.057	-47.0	817	20.8	2.5	
Tl	205	1	No Gas	0.021	26.0	1180	14.7	1	
Tl	203	1	No Gas	0.020	26.0	510	14.8	1	
Pb	208	1	No Gas	0.003	75.9	2897	4.6	2.5	
U	238	1	No Gas	0.003	38.9	640	12.2	2.5	
Ca	43	2	He	-12.917	-87.5	37	56.8	100	
Sb	121	2	He	0.028	9.5	453	4.6	2.5	
Ti	47	2	He	-0.113	-42.5	10	100.0	2.5	
Cu	63	1	No Gas	-0.549	-10.1	7325	10.4	2.5	
Se	82	1	No Gas	0.904	151.0	-317	-100.0	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	573612	0.71	592897	96.75	70	120	
Ge	72	2	He	625920	0.20	621187	100.76	70	120	
Ge	72	1	No Gas	2438856	1.37	2485988	98.10	70	120	
In	115	1	No Gas	2861816	2.07	2922371	97.93	70	120	
Bi	209	1	No Gas	2474019	2.10	2541424	97.35	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	298_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-31T00:31:36-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	280CALB.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	107.749	2.996	941652	2.71	100	107.7	90	110	
Be	9	1	No Gas	105.540	1.644	254791	1.72	100	105.5	90	110	
V	51	2	He	91.625	0.473	615139	0.51	100	91.6	90	110	
Cr	52	2	He	96.499	0.493	729432	0.12	100	96.5	90	110	
Fe	56	2	He	10033.003	0.376	64994772	0.80	10000	100.3	90	110	
Se	78	2	He	102.658	1.198	8048	1.39	100	102.7	90	110	
As	75	2	He	101.347	0.503	110330	0.67	100	101.3	90	110	
Ca	44	2	He	9989.616	1.027	293023	0.58	10000	99.9	90	110	
Na	23	2	He	10098.467	1.015	10214972	1.27	10000	101.0	90	110	
Mg	24	2	He	10139.400	1.791	5615805	2.28	10000	101.4	90	110	
K	39	2	He	10019.695	1.516	5938904	2.00	10000	100.2	90	110	
Mn	55	2	He	101.608	0.650	449915	0.99	100	101.6	90	110	
Co	59	2	He	102.933	0.419	1290771	0.75	100	102.9	90	110	
Ni	60	2	He	100.576	1.099	315630	0.60	100	100.6	90	110	
Cu	63	2	He	96.356	1.091	868658	0.57	100	96.4	90	110	
Zn	66	2	He	101.579	0.806	149254	0.50	100	101.6	90	110	
Al	27	2	He	103.635	2.818	29214	2.67	100	103.6	90	110	
B	11	1	No Gas	494.971	3.044	725789	3.44	500	99.0	90	110	
Al	27	1	No Gas	106.436	3.017	1659940	3.31	100	106.4	90	110	
Si	28	1	No Gas	498.358	0.791	3418143	0.32	5000	10.0	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	101.457	1.275	2038755	1.97	100	101.5	90	110	
Cd	111	1	No Gas	99.164	0.721	391615	1.58	100	99.2	90	110	
Sr	88	1	No Gas	100.172	0.679	3570000	1.75	100	100.2	90	110	
Mo	95	1	No Gas	88.975	0.437	693150	1.38	100	89.0	90	110	CCV Main CR1-2 Failed
Sn	118	1	No Gas	96.847	4.618	1151950	5.71	100	96.8	90	110	
Sb	121	1	No Gas	101.258	2.072	1696019	1.21	100	101.3	90	110	
Ba	137	1	No Gas	96.606	0.673	546918	0.42	100	96.6	90	110	
Tl	205	1	No Gas	102.351	1.063	3481689	1.76	100	102.4	90	110	
Tl	203	1	No Gas	99.969	0.283	1518187	0.80	100	100.0	90	110	
Pb	208	1	No Gas	98.318	0.343	4690003	1.04	100	98.3	90	110	
U	238	1	No Gas	100.482	0.114	4798706	0.63	100	100.5	90	110	
Ca	43	2	He	9802.706	1.539	17138	1.08	10000	98.0	90	110	
Sb	121	2	He	94.804	0.676	710540	0.34	100	94.8	90	110	
Ti	47	2	He	100.406	3.010	19831	3.50	100	100.4	90	110	
Cu	63	1	No Gas	102.554	0.435	1541676	1.07	100	102.6	90	110	
Se	82	1	No Gas	100.818	2.722	21706	2.87	100	100.8	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	528930	0.81	592897	89.21	70	120	
Ge	72	2	He	593979	0.50	621187	95.62	70	120	
Ge	72	1	No Gas	2364122	1.03	2485988	95.10	70	120	
In	115	1	No Gas	2802354	1.09	2922371	95.89	70	120	
Bi	209	1	No Gas	2396001	0.71	2541424	94.28	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	299_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-31T00:33:24-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	280CALB.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	0.021	247.8	33483	1.7	0.5	
Be	9	1	No Gas	0.006	138.6	68	29.6	0.5	
V	51	2	He	-0.029	-35.0	1656	3.7	2.5	
Cr	52	2	He	0.058	36.1	1140	13.7	2.5	
Fe	56	2	He	5.872	106.3	187028	21.7	100	
Se	78	2	He	0.399	42.2	156	8.0	2	
As	75	2	He	0.007	74.4	138	3.7	2.5	
Ca	44	2	He	-6.637	-30.5	643	9.1	100	
Na	23	2	He	-0.548	-276.3	94727	1.2	100	
Mg	24	2	He	-0.783	-136.1	2760	21.5	100	
K	39	2	He	1.556	99.1	53698	1.2	100	
Mn	55	2	He	0.343	72.2	3964	27.8	2.5	
Co	59	2	He	0.002	299.0	307	29.6	2.5	
Ni	60	2	He	-0.597	-2.7	233	21.1	2.5	
Cu	63	2	He	-0.767	-12.1	3837	21.6	2	
Zn	66	2	He	0.005	1030.3	513	13.7	2.5	
Al	27	2	He	-2.179	-127.5	3897	17.4	5	
B	11	1	No Gas	6.175	17.2	18194	9.2	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-2.762	-72.7	168613	16.6	5	
Si	28	1	No Gas	-9.054	-5.7	267561	0.5	10	
Ag	107	1	No Gas	0.008	34.9	580	8.6	2.5	
Cd	111	1	No Gas	0.004	428.8	57	106.4	1	
Sr	88	1	No Gas	-0.030	-45.2	3197	14.6	2.5	
Mo	95	1	No Gas	0.010	78.1	167	36.2	2.5	
Sn	118	1	No Gas	0.047	28.2	1547	10.0	5	
Sb	121	1	No Gas	0.037	21.8	1220	11.4	2.5	
Ba	137	1	No Gas	0.023	239.1	1283	24.5	2.5	
Tl	205	1	No Gas	0.018	17.2	1060	9.6	1	
Tl	203	1	No Gas	0.015	4.2	433	2.7	1	
Pb	208	1	No Gas	0.030	9.7	4234	3.5	2.5	
U	238	1	No Gas	0.005	88.0	703	29.5	2.5	
Ca	43	2	He	-8.534	-210.0	43	74.2	100	
Sb	121	2	He	0.036	22.1	503	12.0	2.5	
Ti	47	2	He	-0.029	-356.0	27	78.1	2.5	
Cu	63	1	No Gas	-0.658	-6.9	5705	11.9	2.5	
Se	82	1	No Gas	1.761	54.4	-120	-182.6	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	562156	0.27	592897	94.82	70	120	
Ge	72	2	He	605195	0.55	621187	97.43	70	120	
Ge	72	1	No Gas	2460701	1.09	2485988	98.98	70	120	
In	115	1	No Gas	2879574	1.95	2922371	98.54	70	120	
Bi	209	1	No Gas	2491842	0.45	2541424	98.05	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	307_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-31T00:48:29-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	280CALB.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	107.610	0.153	968849	0.81	100	107.6	90	110	
Be	9	1	No Gas	104.197	0.687	259131	1.24	100	104.2	90	110	
V	51	2	He	91.600	0.883	622729	0.59	100	91.6	90	110	
Cr	52	2	He	96.549	0.340	739050	0.71	100	96.5	90	110	
Fe	56	2	He	10238.056	1.818	67152579	1.12	10000	102.4	90	110	
Se	78	2	He	101.294	1.259	8044	1.78	100	101.3	90	110	
As	75	2	He	101.662	0.261	112073	0.93	100	101.7	90	110	
Ca	44	2	He	9891.571	0.709	293826	0.45	10000	98.9	90	110	
Na	23	2	He	10102.074	0.495	10347636	0.79	10000	101.0	90	110	
Mg	24	2	He	10142.866	1.662	5688003	1.00	10000	101.4	90	110	
K	39	2	He	10116.017	1.733	6070560	1.11	10000	101.2	90	110	
Mn	55	2	He	101.209	0.293	453821	0.89	100	101.2	90	110	
Co	59	2	He	104.431	1.711	1326033	1.36	100	104.4	90	110	
Ni	60	2	He	102.541	0.996	325827	0.79	100	102.5	90	110	
Cu	63	2	He	96.777	0.476	883453	0.36	100	96.8	90	110	
Zn	66	2	He	102.469	1.176	152459	0.92	100	102.5	90	110	
Al	27	2	He	98.075	0.424	28232	1.04	100	98.1	90	110	
B	11	1	No Gas	510.279	2.617	770367	1.99	500	102.1	90	110	
Al	27	1	No Gas	99.565	1.109	1597146	1.09	100	99.6	90	110	
Si	28	1	No Gas	497.700	1.470	3483232	1.63	5000	10.0	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	103.590	0.647	2108579	1.59	100	103.6	90	110	
Cd	111	1	No Gas	100.064	0.800	400261	0.58	100	100.1	90	110	
Sr	88	1	No Gas	100.881	2.123	3641058	0.83	100	100.9	90	110	
Mo	95	1	No Gas	89.012	0.697	702388	0.78	100	89.0	90	110	CCV Main CR1-2 Failed
Sn	118	1	No Gas	102.549	1.163	1235084	1.30	100	102.5	90	110	
Sb	121	1	No Gas	102.260	1.569	1747553	1.23	100	102.3	90	110	
Ba	137	1	No Gas	98.238	0.825	563340	0.55	100	98.2	90	110	
Tl	205	1	No Gas	100.930	1.534	3642477	0.85	100	100.9	90	110	
Tl	203	1	No Gas	99.745	0.843	1607172	0.44	100	99.7	90	110	
Pb	208	1	No Gas	96.595	1.329	4888762	0.80	100	96.6	90	110	
U	238	1	No Gas	98.942	0.510	5013600	0.96	100	98.9	90	110	
Ca	43	2	He	9900.766	0.867	17528	1.02	10000	99.0	90	110	
Sb	121	2	He	95.437	0.367	724325	0.43	100	95.4	90	110	
Ti	47	2	He	98.536	3.372	19704	2.94	100	98.5	90	110	
Cu	63	1	No Gas	102.202	1.561	1567426	1.38	100	102.2	90	110	
Se	82	1	No Gas	99.305	1.208	21805	1.05	100	99.3	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	544853	0.71	592897	91.90	70	120	
Ge	72	2	He	601489	0.68	621187	96.83	70	120	
Ge	72	1	No Gas	2411852	0.34	2485988	97.02	70	120	
In	115	1	No Gas	2838744	1.38	2922371	97.14	70	120	
Bi	209	1	No Gas	2542289	1.09	2541424	100.03	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	308_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-31T00:50:17-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	280CALB.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	-0.020	-92.2	32200	0.7	0.5	
Be	9	1	No Gas	0.002	203.6	58	21.6	0.5	
V	51	2	He	-0.065	-21.5	1388	7.8	2.5	
Cr	52	2	He	0.052	3.9	1080	2.4	2.5	
Fe	56	2	He	8.822	33.5	203803	9.8	100	
Se	78	2	He	0.150	43.4	135	4.5	2	
As	75	2	He	-0.026	-69.8	100	18.6	2.5	
Ca	44	2	He	-5.767	-64.5	660	16.0	100	
Na	23	2	He	-4.148	-22.7	89852	2.1	100	
Mg	24	2	He	-1.216	-20.2	2484	5.3	100	
K	39	2	He	-0.399	-659.9	51824	2.2	100	
Mn	55	2	He	0.567	28.5	4908	15.0	2.5	
Co	59	2	He	0.003	404.4	310	48.8	2.5	
Ni	60	2	He	-0.597	-0.1	230	0.0	2.5	
Cu	63	2	He	-0.815	-6.1	3354	13.9	2	
Zn	66	2	He	0.013	1156.2	520	42.8	2.5	
Al	27	2	He	1.996	134.5	4854	13.8	5	
B	11	1	No Gas	6.939	15.0	18841	8.7	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	1.342	61.6	221709	5.1	5	
Si	28	1	No Gas	-9.078	-2.0	260902	0.3	10	
Ag	107	1	No Gas	0.008	81.5	563	22.9	2.5	
Cd	111	1	No Gas	0.001	477.5	47	44.6	1	
Sr	88	1	No Gas	-0.021	-22.9	3474	4.0	2.5	
Mo	95	1	No Gas	0.021	48.4	250	32.0	2.5	
Sn	118	1	No Gas	0.042	22.8	1463	8.0	5	
Sb	121	1	No Gas	0.044	37.2	1313	21.3	2.5	
Ba	137	1	No Gas	0.049	58.6	1413	10.9	2.5	
Tl	205	1	No Gas	0.015	48.0	977	26.6	1	
Tl	203	1	No Gas	0.012	44.2	390	21.9	1	
Pb	208	1	No Gas	0.043	2.0	4880	1.7	2.5	
U	238	1	No Gas	0.003	57.5	600	13.0	2.5	
Ca	43	2	He	-10.140	-192.5	40	86.6	100	
Sb	121	2	He	0.032	5.7	463	2.5	2.5	
Ti	47	2	He	-0.061	-141.9	20	86.6	2.5	
Cu	63	1	No Gas	-0.701	-1.6	4911	3.5	2.5	
Se	82	1	No Gas	0.004	15890.3	-510	-24.7	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	546738	0.59	592897	92.21	70	120	
Ge	72	2	He	597152	1.05	621187	96.13	70	120	
Ge	72	1	No Gas	2400611	0.12	2485988	96.57	70	120	
In	115	1	No Gas	2837259	1.23	2922371	97.09	70	120	
Bi	209	1	No Gas	2495845	0.81	2541424	98.21	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	316_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-31T01:05:30-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	280CALB.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	107.716	0.654	906989	1.23	100	107.7	90	110	
Be	9	1	No Gas	105.898	1.108	246290	0.67	100	105.9	90	110	
V	51	2	He	91.151	0.668	626277	0.13	100	91.2	90	110	
Cr	52	2	He	96.702	0.738	748073	0.48	100	96.7	90	110	
Fe	56	2	He	10117.890	1.471	67074056	1.08	10000	101.2	90	110	
Se	78	2	He	99.515	1.970	7988	2.05	100	99.5	90	110	
As	75	2	He	100.726	0.650	112221	0.71	100	100.7	90	110	
Ca	44	2	He	9899.662	0.490	297194	0.31	10000	99.0	90	110	
Na	23	2	He	9882.853	0.058	10232823	0.67	10000	98.8	90	110	
Mg	24	2	He	10019.863	1.322	5678916	0.74	10000	100.2	90	110	
K	39	2	He	10112.558	0.769	6133283	0.34	10000	101.1	90	110	
Mn	55	2	He	100.289	0.314	454492	0.48	100	100.3	90	110	
Co	59	2	He	103.786	0.360	1331906	0.26	100	103.8	90	110	
Ni	60	2	He	100.555	0.167	322964	0.74	100	100.6	90	110	
Cu	63	2	He	96.373	0.564	889192	0.95	100	96.4	90	110	
Zn	66	2	He	101.327	0.922	152371	1.05	100	101.3	90	110	
Al	27	2	He	101.685	3.102	29422	3.24	100	101.7	90	110	
B	11	1	No Gas	484.552	1.599	684583	1.11	500	96.9	90	110	
Al	27	1	No Gas	104.328	5.399	1658731	3.60	100	104.3	90	110	
Si	28	1	No Gas	482.681	2.917	3378021	1.81	5000	9.7	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	102.143	1.675	2084568	1.14	100	102.1	90	110	
Cd	111	1	No Gas	99.712	0.520	399958	1.10	100	99.7	90	110	
Sr	88	1	No Gas	100.073	2.393	3621745	1.20	100	100.1	90	110	
Mo	95	1	No Gas	89.148	1.086	705382	1.11	100	89.1	90	110	CCV Main CR1-2 Failed
Sn	118	1	No Gas	100.390	2.487	1212636	3.51	100	100.4	90	110	
Sb	121	1	No Gas	101.903	0.235	1736839	1.14	100	101.9	90	110	
Ba	137	1	No Gas	97.777	1.503	562230	1.25	100	97.8	90	110	
Tl	205	1	No Gas	102.153	3.216	3687113	2.39	100	102.2	90	110	
Tl	203	1	No Gas	98.645	1.827	1589880	1.87	100	98.6	90	110	
Pb	208	1	No Gas	96.588	1.517	4889478	0.73	100	96.6	90	110	
U	238	1	No Gas	99.661	0.491	5051226	0.96	100	99.7	90	110	
Ca	43	2	He	9972.051	0.832	17842	1.15	10000	99.7	90	110	
Sb	121	2	He	94.669	0.170	726151	0.67	100	94.7	90	110	
Ti	47	2	He	96.810	0.912	19568	0.95	100	96.8	90	110	
Cu	63	1	No Gas	100.743	2.956	1540866	2.03	100	100.7	90	110	
Se	82	1	No Gas	98.702	2.612	21607	1.50	100	98.7	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	509568	0.65	592897	85.95	70	120	
Ge	72	2	He	607882	0.61	621187	97.86	70	120	
Ge	72	1	No Gas	2405388	1.17	2485988	96.76	70	120	
In	115	1	No Gas	2846506	1.42	2922371	97.40	70	120	
Bi	209	1	No Gas	2542981	1.42	2541424	100.06	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	317_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-31T01:07:18-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	280CALB.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	0.101	65.7	32162	2.3	0.5	
Be	9	1	No Gas	-0.004	-299.8	42	60.4	0.5	
V	51	2	He	-0.030	-43.9	1651	6.5	2.5	
Cr	52	2	He	0.047	43.8	1063	16.0	2.5	
Fe	56	2	He	8.462	125.2	205284	35.6	100	
Se	78	2	He	0.063	380.0	130	14.7	2	
As	75	2	He	-0.014	-305.0	116	40.4	2.5	
Ca	44	2	He	-6.711	-39.5	643	12.9	100	
Na	23	2	He	-3.546	-7.9	91928	1.3	100	
Mg	24	2	He	-1.135	-126.9	2577	33.0	100	
K	39	2	He	-1.138	-72.6	52239	2.2	100	
Mn	55	2	He	0.541	65.8	4881	34.3	2.5	
Co	59	2	He	-0.001	-1409.4	270	42.1	2.5	
Ni	60	2	He	-0.584	-3.0	277	21.2	2.5	
Cu	63	2	He	-0.873	-7.8	2884	22.7	2	
Zn	66	2	He	-0.001	-4976.3	507	18.3	2.5	
Al	27	2	He	3.661	199.7	5355	34.9	5	
B	11	1	No Gas	5.550	24.1	16181	10.5	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-2.699	-73.4	168081	18.2	5	
Si	28	1	No Gas	-11.164	-1.5	251245	1.2	10	
Ag	107	1	No Gas	0.001	141.4	433	5.3	2.5	
Cd	111	1	No Gas	-0.001	-4.1	40	0.0	1	
Sr	88	1	No Gas	-0.040	-6.8	2857	3.9	2.5	
Mo	95	1	No Gas	0.009	24.5	160	10.8	2.5	
Sn	118	1	No Gas	0.035	17.5	1420	5.6	5	
Sb	121	1	No Gas	0.033	20.2	1133	8.7	2.5	
Ba	137	1	No Gas	-0.023	-81.5	1030	11.0	2.5	
Tl	205	1	No Gas	0.011	21.3	873	10.6	1	
Tl	203	1	No Gas	0.010	85.8	373	38.8	1	
Pb	208	1	No Gas	0.017	29.9	3714	6.6	2.5	
U	238	1	No Gas	-0.001	-144.3	430	18.6	2.5	
Ca	43	2	He	-19.674	-59.9	23	89.2	100	
Sb	121	2	He	0.028	7.8	443	4.7	2.5	
Ti	47	2	He	0.021	145.9	37	15.7	2.5	
Cu	63	1	No Gas	-0.789	-4.3	3647	15.6	2.5	
Se	82	1	No Gas	0.966	345.4	-293	-259.1	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	528614	1.46	592897	89.16	70	120	
Ge	72	2	He	606895	1.24	621187	97.70	70	120	
Ge	72	1	No Gas	2434991	1.56	2485988	97.95	70	120	
In	115	1	No Gas	2917005	0.36	2922371	99.82	70	120	
Bi	209	1	No Gas	2585664	0.71	2541424	101.74	70	120	

Sample Report

Sample Table

Sample Name	LLCCV2
Data File Name	319LCV2.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-31T01:11:06-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	280CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	1.926	1.926	3.45	45620	0.00	2	
Be	9	1	No Gas	2.032	2.032	4.53	4749	0.04	2	
V	51	2	He	1.684	1.684	1.37	13133	0.01	2	
Cr	52	2	He	1.931	1.931	2.99	15312	0.01	2	
Fe	56	2	He	206.532	206.532	2.58	1485486	0.01	200	
Se	78	2	He	2.211	2.211	9.55	294	0.75	2	
As	75	2	He	1.982	1.982	2.24	2290	0.09	2	
Ca	44	2	He	197.774	197.774	3.66	6632	2.98	200	
Na	23	2	He	182.435	182.435	0.56	277279	0.07	200	
Mg	24	2	He	181.098	181.098	2.61	103721	0.17	200	
K	39	2	He	179.717	179.717	1.48	157898	0.11	200	
Mn	55	2	He	2.095	2.095	6.82	11645	0.02	2	
Co	59	2	He	1.910	1.910	1.65	24299	0.01	2	
Ni	60	2	He	2.933	2.933	7.00	11272	0.03	2	NewName Main CR1 Failed
Cu	63	2	He	2.908	2.908	1.04	36610	0.01	2	NewName Main CR1 Failed
Zn	66	2	He	1.909	1.909	2.83	3304	0.06	2	
Al	27	2	He	-2.782	-2.782	-91.21	3694	-0.08	2	NewName Main CR1 Failed
B	11	1	No Gas	9.918	9.918	4.91	21604	0.05	10	
Al	27	1	No Gas	2.030	2.030	172.48	231245	0.00	2	
Si	28	1	No Gas	6.426	6.426	11.68	359145	0.00	10	NewName Main CR1 Failed
Ag	107	1	No Gas	1.891	1.891	1.74	38821	0.00	2	
Cd	111	1	No Gas	1.914	1.914	4.23	7682	0.02	2	
Sr	88	1	No Gas	1.868	1.868	3.17	71431	0.00	2	
Mo	95	1	No Gas	1.812	1.812	2.30	14355	0.01	2	
Sn	118	1	No Gas	1.803	1.803	4.05	22606	0.01	2	
Sb	121	1	No Gas	1.873	1.873	1.21	32434	0.01	2	
Ba	137	1	No Gas	1.906	1.906	3.42	12019	0.02	2	
Tl	205	1	No Gas	1.870	1.870	1.92	68082	0.00	2	
Tl	203	1	No Gas	1.712	1.712	1.42	27855	0.01	2	
Pb	208	1	No Gas	1.812	1.812	1.47	94668	0.00	2	
U	238	1	No Gas	1.813	1.813	1.70	92535	0.00	2	
Ca	43	2	He	165.491	165.491	19.43	347	47.74	200	
Sb	121	2	He	1.893	1.893	1.18	14452	0.01	2	
Ti	47	2	He	1.793	1.793	1.47	387	0.46	200	
Cu	63	1	No Gas	3.005	3.005	1.84	60963	0.00	2	NewName Main CR1 Failed
Se	82	1	No Gas	3.266	3.266	82.66	221	1.48	2	NewName Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	506979	1.15	592897	85.51	70	120	
Ge	72	2	He	595931	0.58	621187	95.93	70	120	
Ge	72	1	No Gas	2401789	0.53	2485988	96.61	70	120	
In	115	1	No Gas	2833480	0.44	2922371	96.96	70	120	
Bi	209	1	No Gas	2548011	0.54	2541424	100.26	70	120	

Sample Report

Sample Table

Sample Name	LLCCV5
Data File Name	320LCV5.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-31T01:13:00-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	280CALB.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	4.770	4.770	1.99	69583	0.01	5	
Be	9	1	No Gas	5.252	5.252	0.99	12362	0.04	5	
V	51	2	He	4.440	4.440	1.72	32709	0.01	5	
Cr	52	2	He	4.749	4.749	1.47	37899	0.01	5	
Fe	56	2	He	511.488	511.488	2.75	3579862	0.01	500	
Se	78	2	He	4.677	4.677	6.03	501	0.93	5	
As	75	2	He	4.876	4.876	2.65	5631	0.09	5	
Ca	44	2	He	489.946	489.946	2.47	15719	3.12	500	
Na	23	2	He	455.850	455.850	0.82	570836	0.08	500	
Mg	24	2	He	457.759	457.759	0.76	266046	0.17	500	
K	39	2	He	454.551	454.551	1.53	330691	0.14	500	
Mn	55	2	He	5.274	5.274	9.41	26563	0.02	5	
Co	59	2	He	4.717	4.717	2.18	61623	0.01	5	
Ni	60	2	He	4.462	4.462	1.33	16594	0.03	5	
Cu	63	2	He	3.943	3.943	1.66	47410	0.01	5	
Zn	66	2	He	4.867	4.867	5.61	7909	0.06	5	
Al	27	2	He	4.461	4.461	136.38	5621	0.08	5	
B	11	1	No Gas	23.698	23.698	3.24	41312	0.06	25	
Al	27	1	No Gas	4.199	4.199	13.79	266032	0.00	5	
Si	28	1	No Gas	20.473	20.473	4.08	455615	0.00	25	
Ag	107	1	No Gas	4.688	4.688	0.66	97760	0.00	5	
Cd	111	1	No Gas	4.880	4.880	2.97	19959	0.02	5	
Sr	88	1	No Gas	4.624	4.624	0.11	174454	0.00	5	
Mo	95	1	No Gas	4.240	4.240	0.57	34231	0.01	5	
Sn	118	1	No Gas	4.598	4.598	0.24	57446	0.01	5	
Sb	121	1	No Gas	4.663	4.663	1.36	81251	0.01	5	
Ba	137	1	No Gas	4.759	4.759	0.78	28949	0.02	5	
Tl	205	1	No Gas	4.640	4.640	0.35	171811	0.00	5	
Tl	203	1	No Gas	4.365	4.365	0.89	72151	0.01	5	
Pb	208	1	No Gas	4.503	4.503	0.47	235926	0.00	5	
U	238	1	No Gas	4.545	4.545	0.44	236100	0.00	5	
Ca	43	2	He	466.979	466.979	3.53	903	51.69	500	
Sb	121	2	He	4.554	4.554	1.45	35619	0.01	5	
Ti	47	2	He	4.616	4.616	7.48	977	0.47	5	
Cu	63	1	No Gas	3.813	3.813	1.77	74413	0.01	5	
Se	82	1	No Gas	4.963	4.963	18.50	612	0.81	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	513819	1.50	592897	86.66	70	120	
Ge	72	2	He	616028	0.28	621187	99.17	70	120	
Ge	72	1	No Gas	2442544	2.14	2485988	98.25	70	120	

Sample Report

In	115	1	No Gas	2896814	1.62	2922371	99.13	70	120	
Bi	209	1	No Gas	2601238	2.44	2541424	102.35	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	321ICSA.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-31T01:14:53-05:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	280CALB.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	0.651	4.6	36857	2.4	0	ICSA Main CR1 Failed
Be	9	1	No Gas	-0.016	-26.7	12	89.2	0	ICSA Main CR1 Failed
V	51	2	He	-0.040	-125.9	1517	21.6	0	ICSA Main CR1 Failed
Cr	52	2	He	1.446	2.2	11352	2.7	0	ICSA Main CR1 Failed
Fe	56	2	He	98103.216	0.6	620378631	1.2	0	
Se	78	2	He	0.367	76.2	147	13.9	0	ICSA Main CR1 Failed
As	75	2	He	0.032	56.7	159	11.9	0	ICSA Main CR1 Failed
Ca	44	2	He	104091.692	1.2	2979064	1.6	0	
Na	23	2	He	101537.308	1.7	99632699	1.8	0	
Mg	24	2	He	100155.147	1.3	54228458	1.5	0	
K	39	2	He	98875.694	0.7	56871951	1.0	0	
Mn	55	2	He	0.653	117.8	5138	64.3	0	ICSA Main CR1 Failed
Co	59	2	He	0.096	16.3	1437	12.8	0	ICSA Main CR1 Failed
Ni	60	2	He	-0.169	-15.6	1530	4.9	0	ICSA Main CR1 Failed
Cu	63	2	He	-0.797	-21.0	3421	42.4	0	ICSA Main CR1 Failed
Zn	66	2	He	0.843	11.4	1693	8.0	0	ICSA Main CR1 Failed
Al	27	2	He	95438.624	1.1	22401999	1.3	0	
B	11	1	No Gas	1.510	21.6	10356	2.8	0	
Al	27	1	No Gas	89808.034	1.3	1185204596	2.5	0	
Si	28	1	No Gas	12.957	15.8	379136	2.4	0	ICSA Main CR1 Failed
Ag	107	1	No Gas	0.004	119.3	450	17.4	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	0.732	3.7	2807	3.3	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	0.792	2.3	30956	0.2	0	ICSA Main CR1 Failed
Mo	95	1	No Gas	1934.770	1.9	14419594	0.9	0	
Sn	118	1	No Gas	0.070	25.5	1700	10.2	0	ICSA Main CR1 Failed
Sb	121	1	No Gas	0.088	11.5	1960	10.8	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	0.408	15.4	3277	9.9	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	-0.002	-78.0	340	20.4	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	0.001	245.3	203	15.8	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.032	27.3	4144	10.0	0	ICSA Main CR1 Failed
U	238	1	No Gas	0.016	13.4	1217	9.9	0	ICSA Main CR1 Failed
Ca	43	2	He	92165.612	0.9	157142	1.2	0	
Sb	121	2	He	0.080	13.6	803	10.4	0	ICSA Main CR1 Failed
Ti	47	2	He	1985.697	0.8	382998	1.1	0	
Se	82	1	No Gas	0.754	163.8	-322	-80.1	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	529469	2.72	592897	89.30	70	120	
Ge	72	2	He	580984	0.59	621187	93.53	70	120	
Ge	72	1	No Gas	2274469	2.44	2485988	91.49	70	120	
In	115	1	No Gas	2681876	1.94	2922371	91.77	70	120	
Bi	209	1	No Gas	2383623	1.65	2541424	93.79	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	322ICSB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-31T01:16:49-05:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	280CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	99.130	1.247	825126	2.95	100	99.1	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	96.887	0.504	222151	3.26	100	96.9	80	120	
V	51	2	He	87.880	1.203	544172	0.53	100	87.9	80	120	
Cr	52	2	He	92.591	0.981	645488	0.35	100	92.6	80	120	
Fe	56	2	He	105823.508	0.799	630957884	1.13	100	105823.5	80	120	ICSB Main CR1 Failed
Se	78	2	He	96.418	4.196	6977	3.54	100	96.4	80	120	
As	75	2	He	96.760	1.099	97148	0.42	100	96.8	80	120	
Ca	44	2	He	112845.848	1.163	3044871	0.64	100	112845.8	80	120	
Na	23	2	He	107193.220	1.159	99167539	1.02	100	107193.2	80	120	ICSB Main CR1 Failed
Mg	24	2	He	107703.623	0.420	54983201	0.28	100	107703.6	80	120	ICSB Main CR1 Failed
K	39	2	He	106538.148	1.058	57774192	0.95	100	106538.1	80	120	ICSB Main CR1 Failed
Mn	55	2	He	95.679	0.292	390845	0.57	100	95.7	80	120	
Co	59	2	He	92.754	1.239	1072739	1.53	100	92.8	80	120	
Ni	60	2	He	94.223	1.360	272822	0.80	100	94.2	80	120	
Cu	63	2	He	88.242	0.418	734514	0.66	100	88.2	80	120	
Zn	66	2	He	98.302	0.388	133229	1.05	100	98.3	80	120	
Al	27	2	He	92178.444	0.819	20401161	1.06	100	92178.4	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	465.348	1.889	648345	2.78	100	465.3	80	120	
Al	27	1	No Gas	86014.604	1.443	1101679077	2.04	100	86014.6	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	476.019	1.313	3062078	2.81	100	476.0	80	120	
Ag	107	1	No Gas	93.023	1.808	1730928	3.12	100	93.0	80	120	
Cd	111	1	No Gas	93.577	1.490	342163	2.40	100	93.6	80	120	
Sr	88	1	No Gas	99.145	1.497	3271478	2.32	100	99.1	80	120	
Mo	95	1	No Gas	1990.229	2.176	14355166	3.28	100	1990.2	80	120	ICSB Main CR1 Failed
Sn	118	1	No Gas	91.758	1.213	1010254	2.18	100	91.8	80	120	
Sb	121	1	No Gas	99.043	2.582	1548736	1.29	100	99.0	80	120	
Ba	137	1	No Gas	95.895	1.499	502718	2.62	100	95.9	80	120	
Tl	205	1	No Gas	97.625	1.964	3165341	2.15	100	97.6	80	120	
Tl	203	1	No Gas	92.785	3.901	1344648	7.13	100	92.8	80	120	
Pb	208	1	No Gas	93.819	1.728	4266271	2.49	100	93.8	80	120	
U	238	1	No Gas	99.968	0.702	4552229	3.42	100	100.0	80	120	
Ca	43	2	He	99850.599	0.248	160515	0.47	100	99850.6	80	120	ICSB Main CR1 Failed
Sb	121	2	He	90.618	0.940	626366	0.55	100	90.6	80	120	
Ti	47	2	He	2055.474	1.229	373792	0.78	100	2055.5	80	120	ICSB Main CR1 Failed
Cu	63	1	No Gas	93.077	0.348	1308169	3.53	100	93.1	80	120	
Se	82	1	No Gas	94.803	2.293	19026	1.23	100	94.8	80	120	

QC ISTD Table

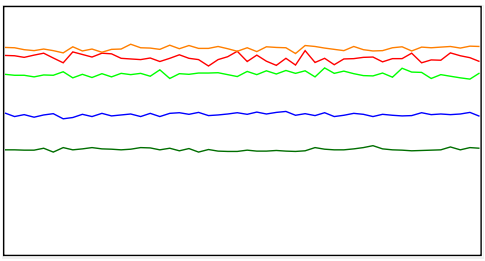
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	502396	3.69	592897	84.74	70	120	
Ge	72	2	He	547803	0.68	621187	88.19	70	120	
Ge	72	1	No Gas	2208034	3.47	2485988	88.82	70	120	
In	115	1	No Gas	2594577	1.33	2922371	88.78	70	120	
Bi	209	1	No Gas	2285036	4.10	2541424	89.91	70	120	

Tune Check Report

Operator Name	ALSHS NoUser
Acq/Data Batch	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq. Date-Time	08/30/2022 11:07:24
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	3977	39773.12		
24	20000	14603	146028.76		
59	50000	28316	283163.29		
115	50000	41729	417286.46		
208	50000	21225	212254.59		

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

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	1.889	5.000	
24	1.430	5.000	
59	1.149	5.000	
115	1.001	5.000	
208	1.336	5.000	

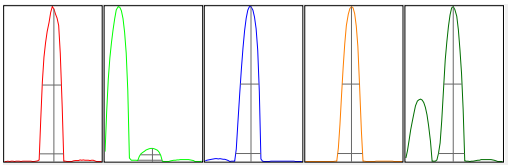
Mass	Background	Background (Required)	Background (Flag)
9	0.900		
24	0.700		
59	0.400		
115	1.600		
208	2.900		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 0.541 %
Doubly Charged	70 / 140 0.810 %

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	3921.55	9.05	8.90 - 9.10	
24	14461.70	24.00	23.90 - 24.10	
59	28889.74	58.95	58.90 - 59.10	
115	42069.20	114.95	114.90 - 115.10	
208	21051.59	208.00	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.58	0.736		
24	0.60	0.739		
59	0.57	0.765		
115	0.53	0.758		
208	0.56	0.796		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.90 L/min	Dilution Gas	0.15 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.4 V	Deflect	13.4 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-70 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	190 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9994	QP Bias	-3.0 V
Mass Offset	126	Axis Offset	0.02		

Hardware Settings

Torch

Torch H	0.1 mm	Torch V	-0.3 mm

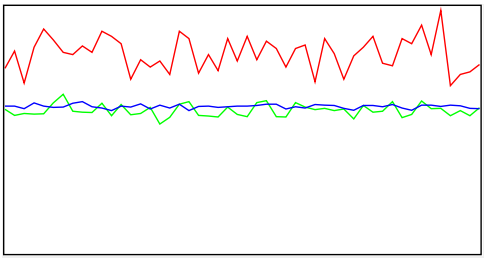
EM

Discriminator	4.4 mV	Analog HV	2111 V	Pulse HV	1065 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	1618.89		
24	1000	579	5786.39		
59	20000	11899	118990.08		

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

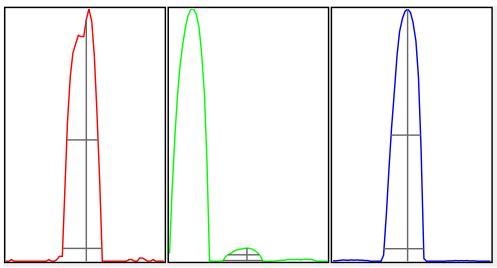
Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	8.449	5.000	Fail
24	4.248	5.000	
59	1.359	5.000	

Mass	Background	Background (Required)	Background (Flag)
9	0.000		
24	0.100		
59	0.000		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 0.264 %
Doubly Charged	70 / 140 0.911 %

Resolution/Axis



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

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	155.26	9.05	8.90 - 9.10	
24	578.64	24.00	23.90 - 24.10	
59	11982.06	58.95	58.90 - 59.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.58	0.736		
24	0.58	0.742		

Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
59	0.55	0.738		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.90 L/min	Dilution Gas	0.15 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.8 V	Deflect	0.4 V
Extract 2	-195.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-85 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	4.2 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9994	QP Bias	-15.0 V
Mass Offset	126	Axis Offset	0.02		

Hardware Settings

Torch

Torch H	0.1 mm	Torch V	-0.3 mm

EM

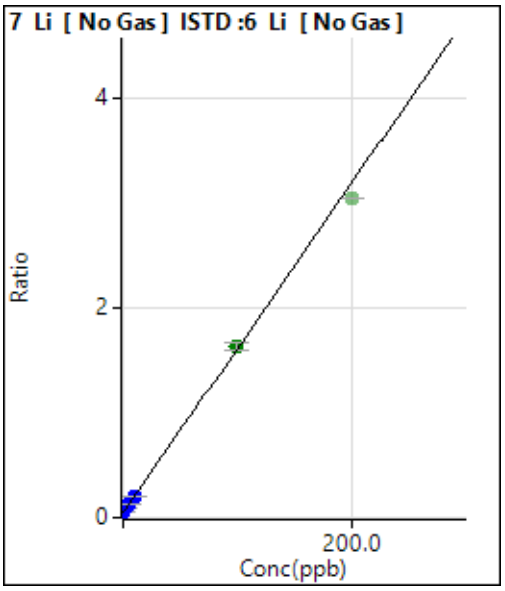
Discriminator	4.4 mV	Analog HV	2111 V	Pulse HV	1065 V

Calibration for 016_ICV.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\083122A.b\
Analysis File: 083122A.batch.bin
DA Date-Time: 08/31/2022 22:43:36
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	010CALB.d	CAL BLK	08/31/2022 10:36:48
2	011CALS.d	2/10/200	08/31/2022 10:38:57
3	012CALS.d	5/25/500	08/31/2022 10:41:06
4	013CALS.d	10/50/100	08/31/2022 10:43:14
5	014CALS.d	100/500/10K	08/31/2022 10:45:21
6	015CALS.d	200/1000/20K	08/31/2022 10:47:35

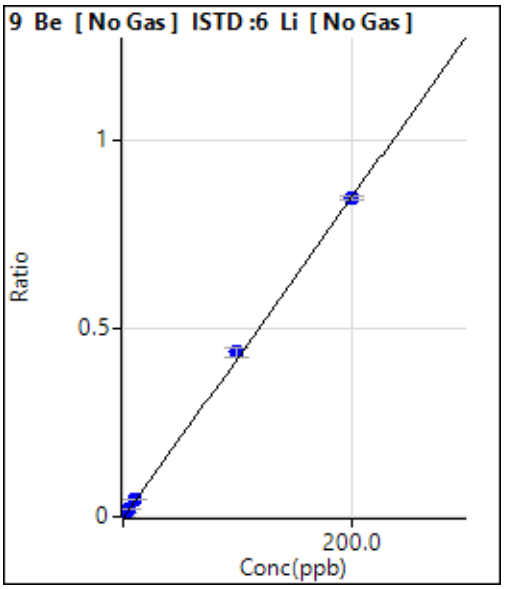
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	37513.31	0.0609	P	0.6	
2	☐	2.000	1.863	54555.27	0.0902	P	0.8	-6.8
3	☐	5.000	4.600	80910.99	0.1333	P	0.6	-8.0
4	☐	10.000	9.249	124240.43	0.2066	P	1.7	-7.5
5	☐	100.000	100.098	983437.12	1.6379	A	5.2	0.1
6	☑	200.000		1930830.28	3.0495	A	0.2	

y = 0.0158 * x + 0.0609
R = 1.0000
DL = 0.06381 ppb
BEC = 3.863 ppb

Weight: <None>
Min Conc: <None>

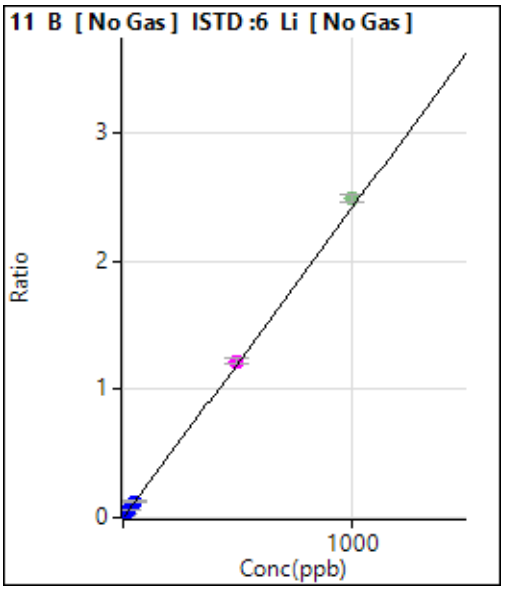


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	38.33	0.0001	P	20.9	
2	☐	2.000	2.090	5417.74	0.0090	P	5.2	4.5
3	☐	5.000	4.988	12924.35	0.0213	P	3.4	-0.2
4	☐	10.000	10.273	26346.39	0.0438	P	1.1	2.7
5	☐	100.000	102.651	262398.76	0.4371	P	5.8	2.7
6	☐	200.000	198.660	535571.12	0.8459	P	1.2	-0.7

y = 0.0043 * x + 6.2289E-005
R = 0.9999
DL = 0.009166 ppb
BEC = 0.01463 ppb

Weight: <None>
Min Conc: <None>

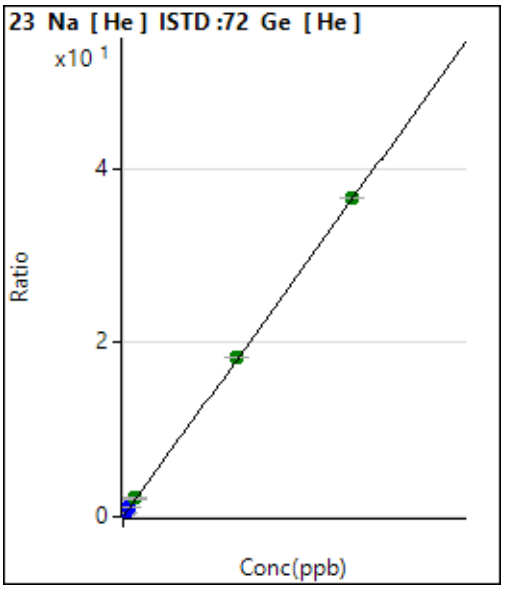
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6333.14	0.0103	P	1.0	
2	☐	10.000	9.133	19530.30	0.0323	P	0.8	-8.7
3	☐	25.000	23.376	40439.73	0.0666	P	0.5	-6.5
4	☐	50.000	48.360	76311.08	0.1269	P	1.7	-3.3
5	☐	500.000	500.263	731332.65	1.2165	M	3.8	0.1
6	☑	1000.000		1575823.05	2.4890	A	2.2	

y = 0.0024 * x + 0.0103
R = 1.0000
DL = 0.1275 ppb
BEC = 4.262 ppb

Weight: <None>
Min Conc: <None>

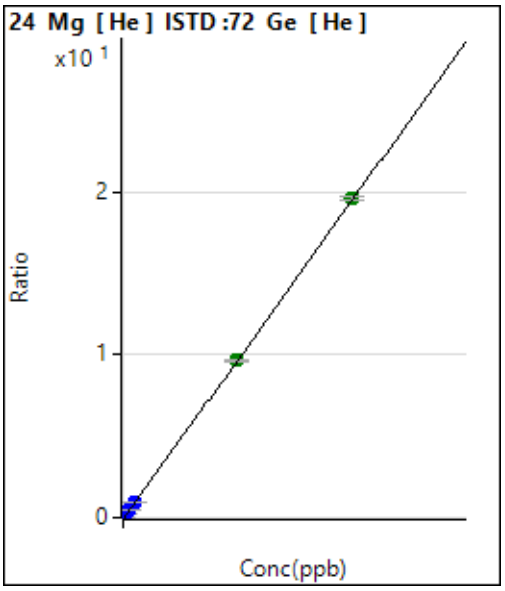


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	99147.79	0.1704	P	2.4	
2	☐	200.000	184.591	292559.88	0.5068	P	1.1	-7.7
3	☐	500.000	463.353	589282.26	1.0148	P	0.8	-7.3
4	☐	1000.000	1069.803	1221314.49	2.1201	A	2.6	7.0
5	☐	10000.00	9942.341	10594193.17	18.2903	A	0.2	-0.6
6	☐	20000.00	20026.40	20561728.86	36.6686	A	0.1	0.1

y = 0.0018 * x + 0.1704
R = 1.0000
DL = 6.711 ppb
BEC = 93.48 ppb

Weight: <None>
Min Conc: <None>

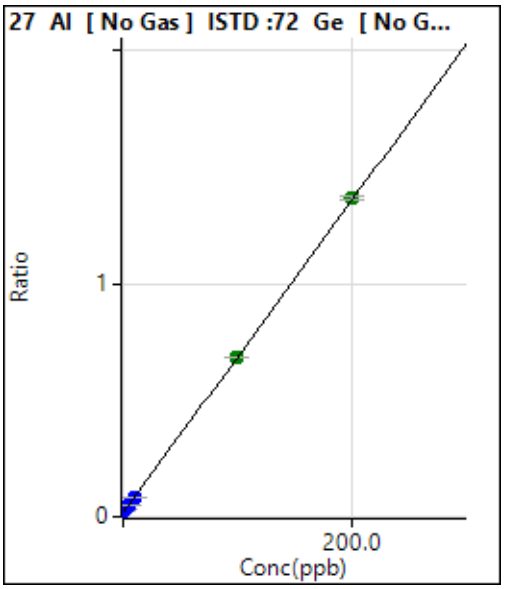
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	710.03	0.0012	P	5.4	
2	☐	200.000	198.464	112692.43	0.1952	P	2.0	-0.8
3	☐	500.000	489.167	278369.06	0.4794	P	0.3	-2.2
4	☐	1000.000	991.604	559110.05	0.9705	P	1.1	-0.8
5	☐	10000.00	9876.710	5592589.29	9.6557	A	0.6	-1.2
6	☐	20000.00	20062.35	10997224.42	19.6121	A	0.9	0.3

y = 9.7749E-004 * x + 0.0012
R = 1.0000
DL = 0.2012 ppb
BEC = 1.248 ppb

Weight: <None>
Min Conc: <None>

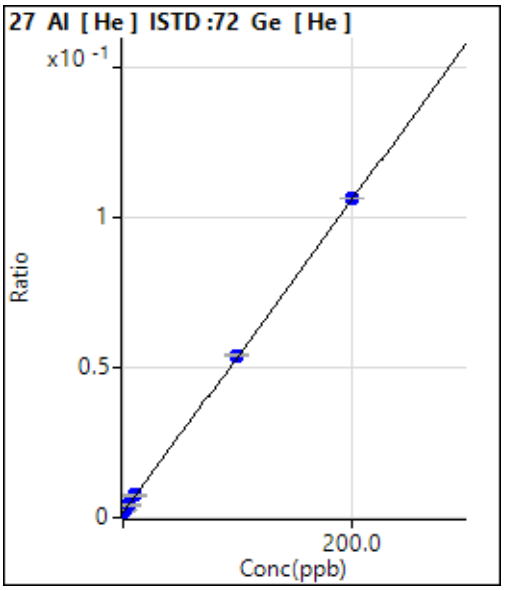


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	48130.08	0.0243	P	1.0	
2	☐	2.000	0.795	59587.73	0.0296	P	0.8	-60.2
3	☐	5.000	3.578	96847.77	0.0482	P	0.7	-28.4
4	☐	10.000	8.535	161899.89	0.0814	P	1.2	-14.7
5	☐	100.000	98.866	1362118.10	0.6858	A	0.3	-1.1
6	☐	200.000	200.688	2649931.84	1.3670	A	1.7	0.3

y = 0.0067 * x + 0.0243
R = 1.0000
DL = 0.107 ppb
BEC = 3.632 ppb

Weight: <None>
Min Conc: <None>

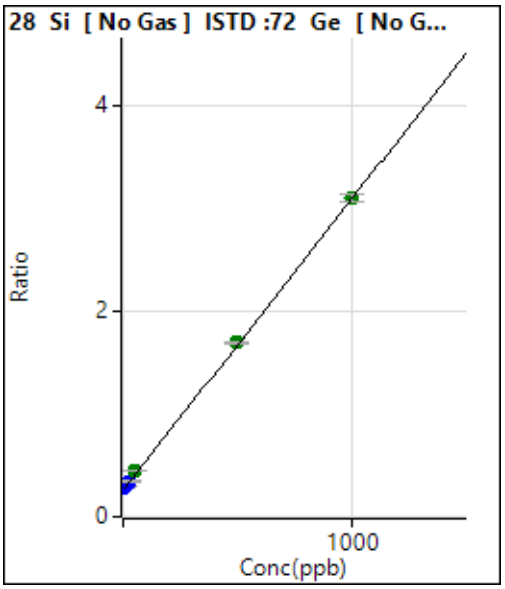
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1253.42	0.0022	P	5.7	
2	☐	2.000	1.198	1603.45	0.0028	P	5.4	-40.1
3	☐	5.000	3.952	2443.60	0.0042	P	5.1	-21.0
4	☐	10.000	10.052	4250.73	0.0074	P	14.0	0.5
5	☐	100.000	99.695	31275.70	0.0540	P	1.6	-0.3
6	☐	200.000	200.184	59574.35	0.1062	P	0.4	0.1

y = 5.1996E-004 * x + 0.0022
R = 1.0000
DL = 0.7063 ppb
BEC = 4.144 ppb

Weight: <None>
Min Conc: <None>

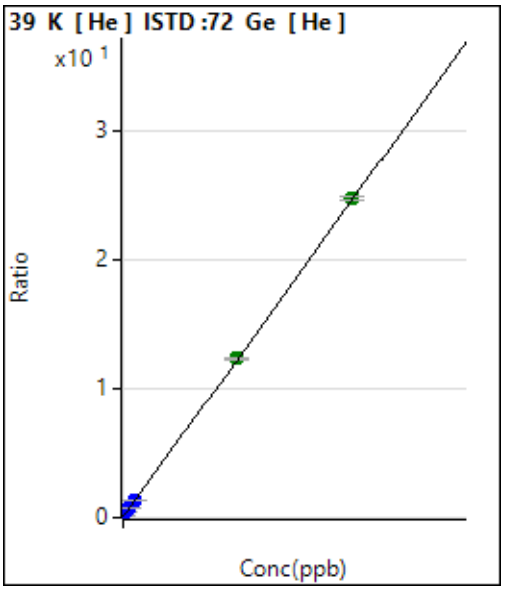


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	545323.58	0.2753	P	1.6	
2	☐	10.000	5.859	587332.76	0.2920	P	1.0	-41.4
3	☐	25.000	24.062	689885.90	0.3436	P	1.8	-3.8
4	☐	50.000	62.603	900890.09	0.4530	A	2.5	25.2
5	☐	500.000	501.568	3374157.86	1.6987	A	1.4	0.3
6	☐	1000.000	998.651	6027289.29	3.1094	A	2.1	-0.1

y = 0.0028 * x + 0.2753
R = 0.9999
DL = 4.558 ppb
BEC = 97.02 ppb

Weight: <None>
Min Conc: <None>

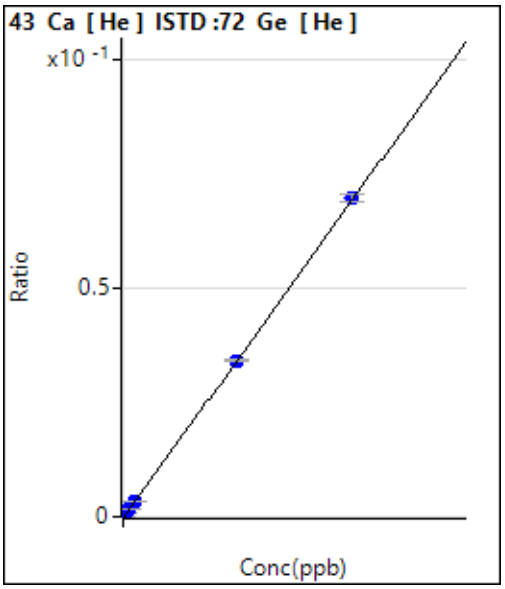
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	95948.73	0.1649	P	1.9	
2	☐	200.000	187.625	228150.77	0.3952	P	1.5	-6.2
3	☐	500.000	464.903	427139.89	0.7356	P	1.2	-7.0
4	☐	1000.000	935.296	756465.59	1.3131	P	0.9	-6.5
5	☐	10000.00	9912.035	7143438.23	12.3330	A	1.3	-0.9
6	☐	20000.00	20048.21	13892908.54	24.7763	A	0.8	0.2

y = 0.0012 * x + 0.1649
R = 1.0000
DL = 7.593 ppb
BEC = 134.3 ppb

Weight: <None>
Min Conc: <None>

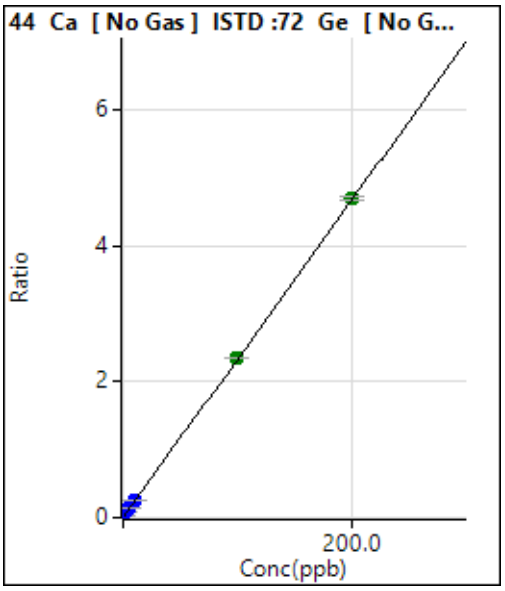


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	34.7	
2	☐	200.000	214.791	446.68	0.0008	P	4.2	7.4
3	☐	500.000	503.040	1030.06	0.0018	P	6.1	0.6
4	☐	1000.000	995.621	2006.86	0.0035	P	3.0	-0.4
5	☐	10000.00	9830.224	19771.10	0.0341	P	1.1	-1.7
6	☐	20000.00	20084.88	39092.41	0.0697	P	2.2	0.4

y = 3.4696E-006 * x + 2.8651E-005
R = 0.9999
DL = 8.607 ppb
BEC = 8.258 ppb

Weight: <None>
Min Conc: <None>

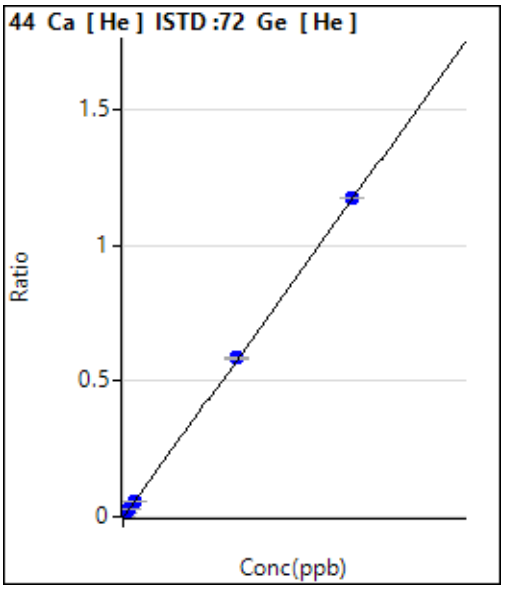
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	55478.66	0.0280	P	2.7	
2	☐	2.000	1.856	143555.84	0.0714	P	0.8	-7.2
3	☐	5.000	4.702	276744.38	0.1378	P	1.1	-6.0
4	☐	10.000	9.554	499558.91	0.2512	P	0.6	-4.5
5	☐	100.000	99.562	4674412.64	2.3534	A	0.9	-0.4
6	☐	200.000	200.250	9120972.36	4.7051	A	1.5	0.1

y = 0.0234 * x + 0.0280
R = 1.0000
DL = 0.09599 ppb
BEC = 1.199 ppb

Weight: <None>
Min Conc: <None>

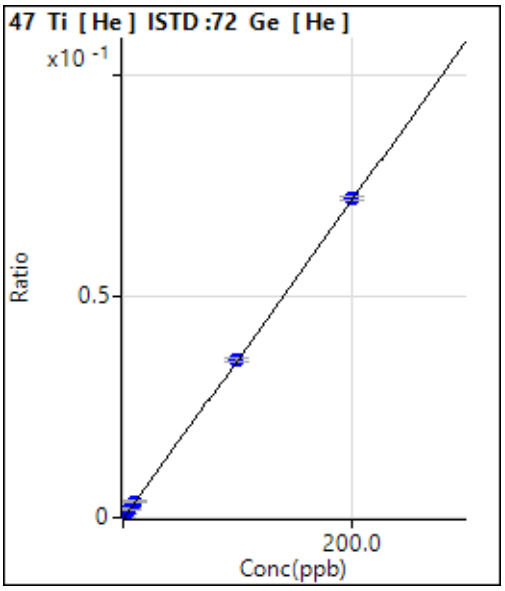


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1260.08	0.0022	P	3.8	
2	☐	200.000	201.444	8055.84	0.0140	P	2.1	0.7
3	☐	500.000	481.225	17608.16	0.0303	P	3.0	-3.8
4	☐	1000.000	966.336	33818.57	0.0587	P	2.4	-3.4
5	☐	10000.00	9944.944	338276.32	0.5840	P	0.2	-0.6
6	☐	20000.00	20029.66	658339.62	1.1741	P	0.4	0.1

y = 5.8508E-005 * x + 0.0022
R = 1.0000
DL = 4.275 ppb
BEC = 37.01 ppb

Weight: <None>
Min Conc: <None>

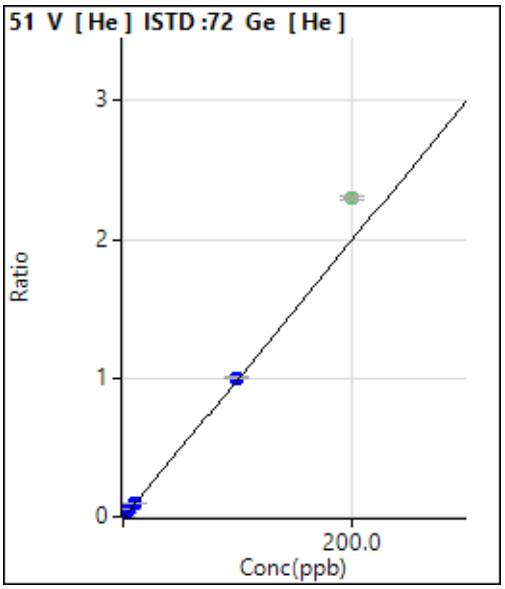
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	86.6	
2	☐	2.000	1.888	400.01	0.0007	P	8.9	-5.6
3	☐	5.000	5.098	1073.40	0.0018	P	16.8	2.0
4	☐	10.000	10.143	2113.53	0.0037	P	4.0	1.4
5	☐	100.000	99.046	20692.45	0.0357	P	2.9	-1.0
6	☐	200.000	200.468	40540.04	0.0723	P	1.1	0.2

y = 3.6059E-004 * x + 1.1465E-005
R = 1.0000
DL = 0.08262 ppb
BEC = 0.0318 ppb

Weight: <None>
Min Conc: <None>

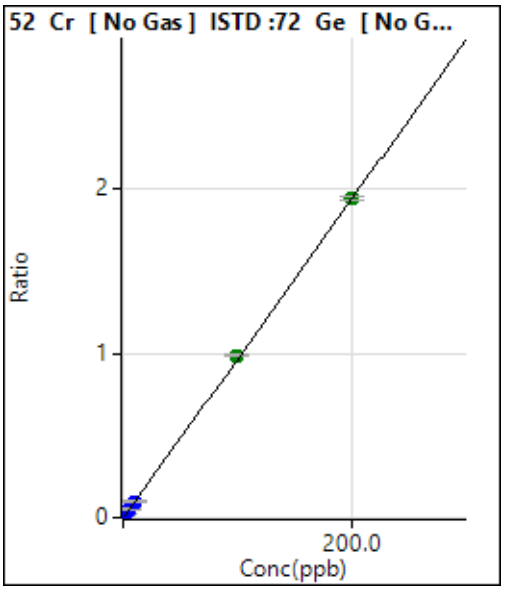


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1445.64	0.0025	P	7.3	
2	☐	2.000	1.943	12643.65	0.0219	P	2.8	-2.9
3	☐	5.000	4.908	29927.05	0.0515	P	1.7	-1.8
4	☐	10.000	9.954	58749.72	0.1020	P	0.9	-0.5
5	☐	100.000	100.010	580446.49	1.0021	P	0.3	0.0
6	☑	200.000		1288400.92	2.2977	A	1.5	

y = 0.0100 * x + 0.0025
R = 1.0000
DL = 0.0542 ppb
BEC = 0.2485 ppb

Weight: <None>
Min Conc: <None>

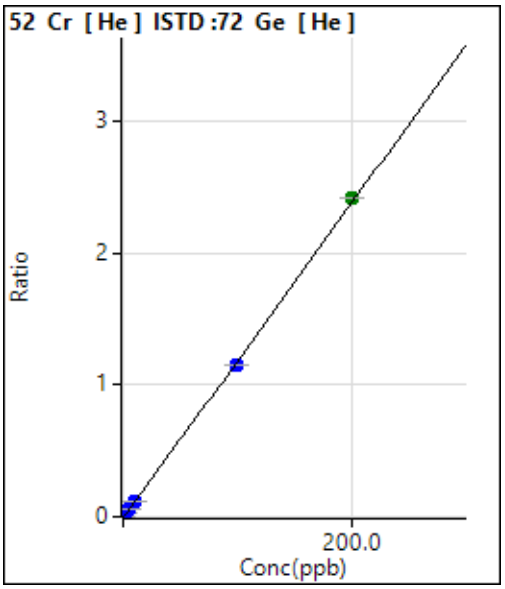
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11738.60	0.0059	P	1.2	
2	☐	2.000	1.967	50356.03	0.0250	P	1.6	-1.6
3	☐	5.000	4.804	105564.60	0.0526	P	1.0	-3.9
4	☐	10.000	9.617	197528.96	0.0993	P	1.2	-3.8
5	☐	100.000	100.889	1957827.57	0.9857	A	0.9	0.9
6	☐	200.000	199.580	3768622.23	1.9441	A	1.7	-0.2

y = 0.0097 * x + 0.0059
R = 1.0000
DL = 0.02243 ppb
BEC = 0.6103 ppb

Weight: <None>
Min Conc: <None>

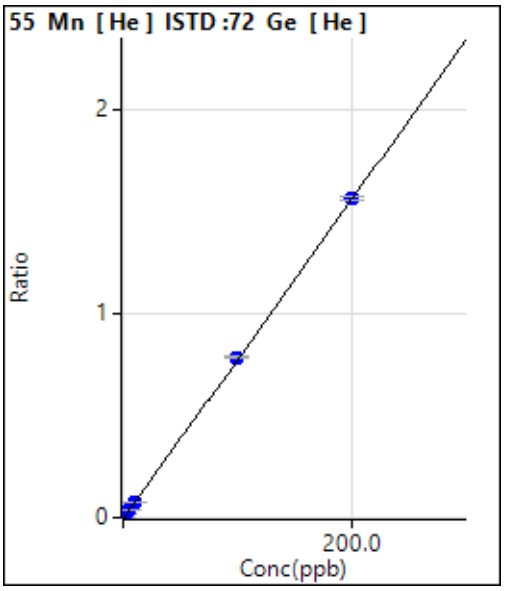


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	876.71	0.0015	P	4.3	
2	☐	2.000	1.970	14461.22	0.0251	P	2.3	-1.5
3	☐	5.000	4.804	34213.13	0.0589	P	1.2	-3.9
4	☐	10.000	9.601	66976.95	0.1163	P	1.0	-4.0
5	☐	100.000	95.979	665289.89	1.1486	P	0.3	-4.0
6	☐	200.000	202.036	1354809.61	2.4161	A	0.5	1.0

y = 0.0120 * x + 0.0015
R = 0.9997
DL = 0.01614 ppb
BEC = 0.1261 ppb

Weight: <None>
Min Conc: <None>

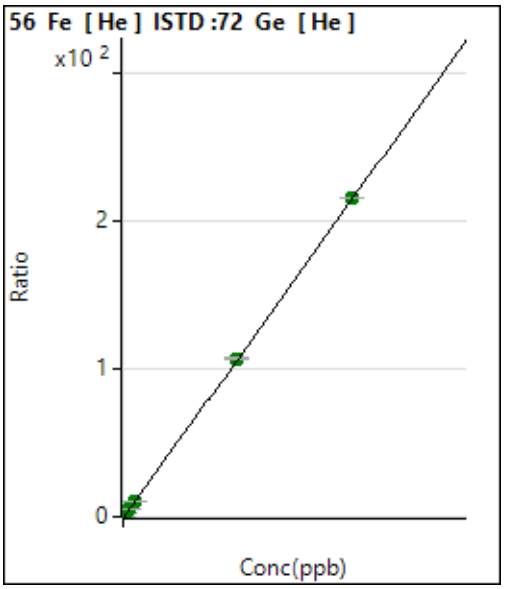
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	246.68	0.0004	P	23.1	
2	☐	2.000	1.998	9286.63	0.0161	P	3.2	-0.1
3	☐	5.000	4.938	22722.58	0.0391	P	4.7	-1.2
4	☐	10.000	9.887	44883.92	0.0779	P	1.5	-1.1
5	☐	100.000	100.345	455775.84	0.7869	P	0.6	0.3
6	☐	200.000	199.835	878464.03	1.5666	P	0.7	-0.1

y = 0.0078 * x + 4.2439E-004
R = 1.0000
DL = 0.03757 ppb
BEC = 0.05415 ppb

Weight: <None>
Min Conc: <None>

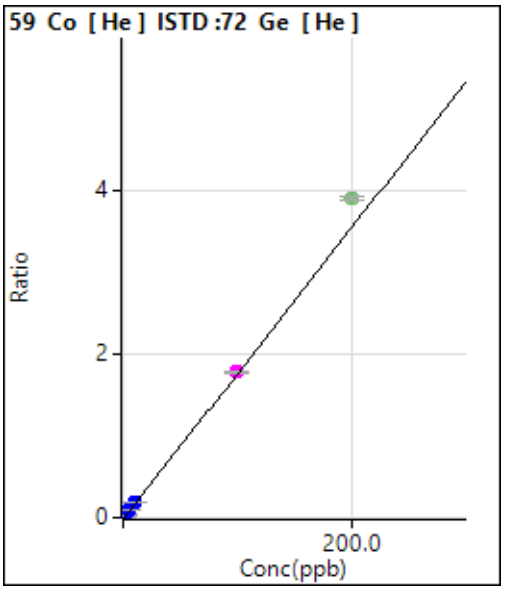


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	15352.34	0.0264	P	3.0	
2	☐	200.000	212.054	1332269.23	2.3080	A	2.8	6.0
3	☐	500.000	513.602	3224288.49	5.5526	A	1.5	2.7
4	☐	1000.000	1019.162	6332822.82	10.9923	A	0.2	1.9
5	☐	10000.00	9948.219	62013529.07	107.066	A	0.8	-0.5
6	☐	20000.00	20024.47	120832234.8	215.484	A	0.2	0.1

y = 0.0108 * x + 0.0264
R = 1.0000
DL = 0.2232 ppb
BEC = 2.452 ppb

Weight: <None>
Min Conc: <None>

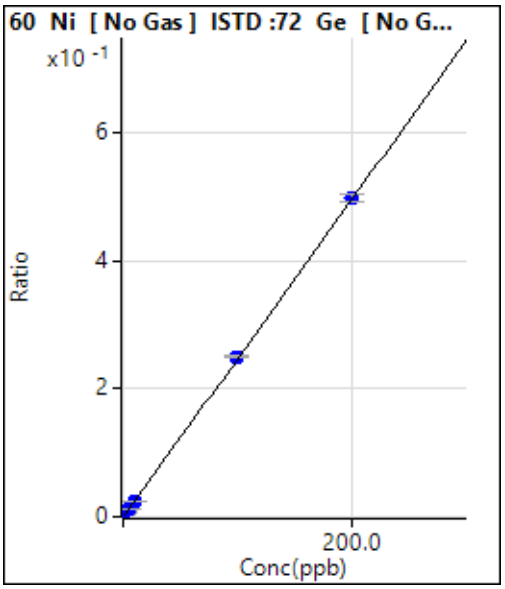
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	133.34	0.0002	P	24.1	
2	☐	2.000	1.965	20322.07	0.0352	P	1.4	-1.7
3	☐	5.000	4.907	50841.57	0.0876	P	1.1	-1.9
4	☐	10.000	9.940	102029.78	0.1771	P	1.0	-0.6
5	☐	100.000	100.011	1030985.19	1.7799	M	1.0	0.0
6	☑	200.000		2185723.46	3.8980	A	0.9	

y = 0.0178 * x + 2.2915E-004
R = 1.0000
DL = 0.009301 ppb
BEC = 0.01288 ppb

Weight: <None>
Min Conc: <None>

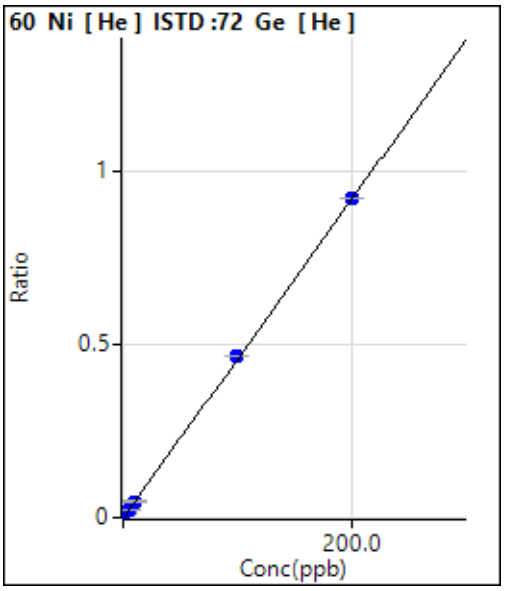


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3173.76	0.0016	P	4.6	
2	☐	2.000	2.412	15288.78	0.0076	P	4.2	20.6
3	☐	5.000	4.475	25557.64	0.0127	P	1.2	-10.5
4	☐	10.000	9.440	49871.40	0.0251	P	2.2	-5.6
5	☐	100.000	99.881	496518.22	0.2500	P	1.1	-0.1
6	☐	200.000	200.097	967609.75	0.4992	P	2.4	0.0

y = 0.0025 * x + 0.0016
R = 1.0000
DL = 0.08957 ppb
BEC = 0.6443 ppb

Weight: <None>
Min Conc: <None>

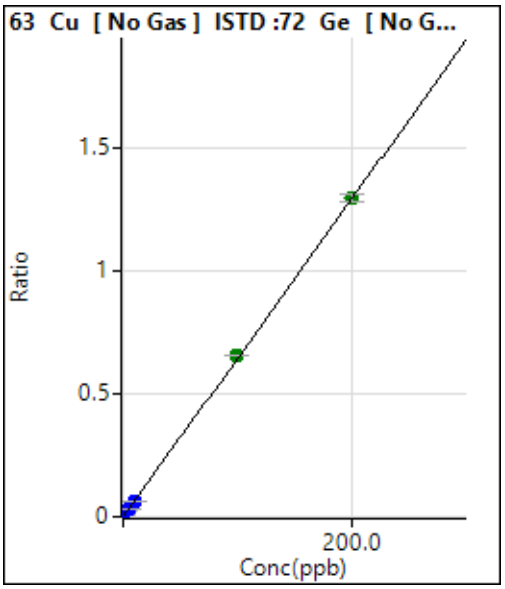
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1820.17	0.0031	P	5.6	
2	☐	2.000	2.405	8175.92	0.0142	P	4.5	20.2
3	☐	5.000	4.529	13887.31	0.0239	P	1.0	-9.4
4	☐	10.000	9.551	27060.50	0.0470	P	2.3	-4.5
5	☐	100.000	100.672	269493.05	0.4653	P	0.8	0.7
6	☐	200.000	199.694	515795.89	0.9198	P	0.2	-0.2

y = 0.0046 * x + 0.0031
R = 1.0000
DL = 0.1135 ppb
BEC = 0.6812 ppb

Weight: <None>
Min Conc: <None>

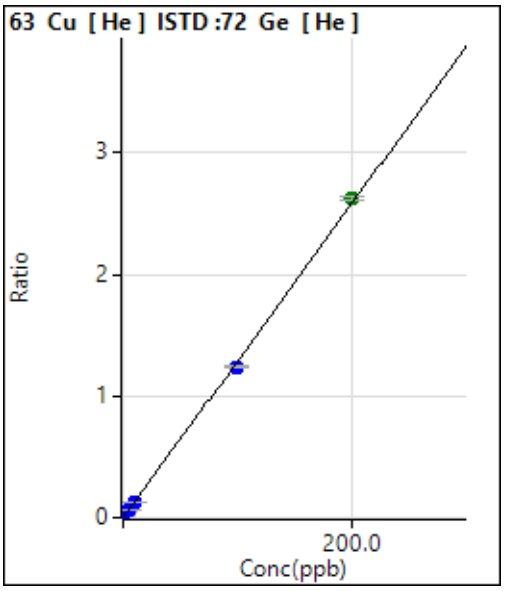


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11558.43	0.0058	P	1.6	
2	☐	2.000	2.491	44071.59	0.0219	P	1.2	24.6
3	☐	5.000	4.315	67614.37	0.0337	P	0.6	-13.7
4	☐	10.000	9.109	128506.17	0.0646	P	1.3	-8.9
5	☐	100.000	100.694	1302024.62	0.6555	A	0.7	0.7
6	☐	200.000	199.710	2509065.43	1.2944	A	1.9	-0.1

y = 0.0065 * x + 0.0058
R = 1.0000
DL = 0.04408 ppb
BEC = 0.9045 ppb

Weight: <None>
Min Conc: <None>

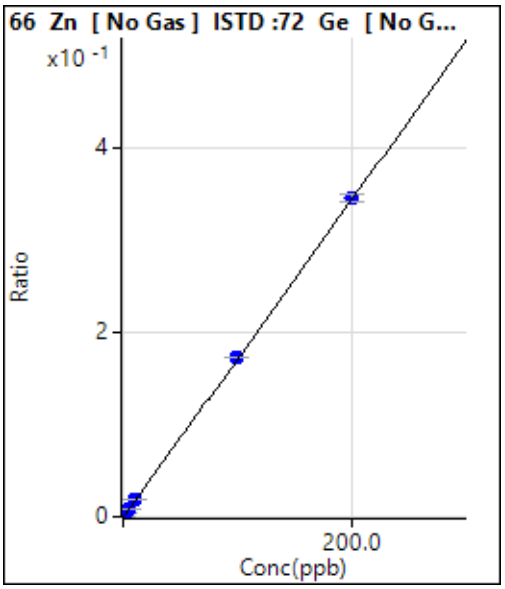
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6861.84	0.0118	P	3.4	
2	☐	2.000	2.551	25821.51	0.0447	P	1.7	27.5
3	☐	5.000	4.329	39300.42	0.0677	P	2.4	-13.4
4	☐	10.000	9.235	75479.14	0.1310	P	0.9	-7.7
5	☐	100.000	95.134	718234.18	1.2400	P	1.0	-4.9
6	☐	200.000	202.482	1472467.27	2.6260	A	1.4	1.2

y = 0.0129 * x + 0.0118
R = 0.9996
DL = 0.09304 ppb
BEC = 0.9132 ppb

Weight: <None>
Min Conc: <None>

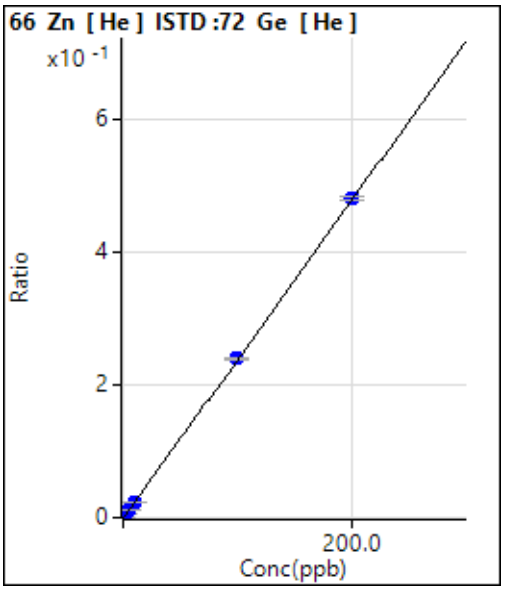


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1456.77	0.0007	P	3.7	
2	☐	2.000	2.240	9233.28	0.0046	P	4.3	12.0
3	☐	5.000	4.927	18499.58	0.0092	P	3.0	-1.5
4	☐	10.000	10.088	35987.93	0.0181	P	1.2	0.9
5	☐	100.000	99.652	342031.35	0.1722	P	0.6	-0.3
6	☐	200.000	200.169	669044.19	0.3451	P	2.1	0.1

y = 0.0017 * x + 7.3560E-004
R = 1.0000
DL = 0.04808 ppb
BEC = 0.4275 ppb

Weight: <None>
Min Conc: <None>

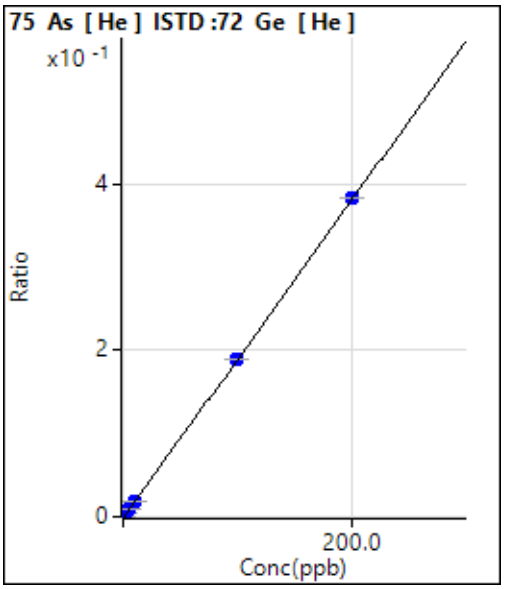
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	616.70	0.0011	P	10.4	
2	☐	2.000	2.245	3713.92	0.0064	P	9.4	12.3
3	☐	5.000	4.827	7318.76	0.0126	P	1.2	-3.5
4	☐	10.000	9.716	13997.43	0.0243	P	2.1	-2.8
5	☐	100.000	99.355	138228.69	0.2386	P	0.6	-0.6
6	☐	200.000	200.338	269231.52	0.4801	P	0.6	0.2

y = 0.0024 * x + 0.0011
R = 1.0000
DL = 0.1387 ppb
BEC = 0.4432 ppb

Weight: <None>
Min Conc: <None>

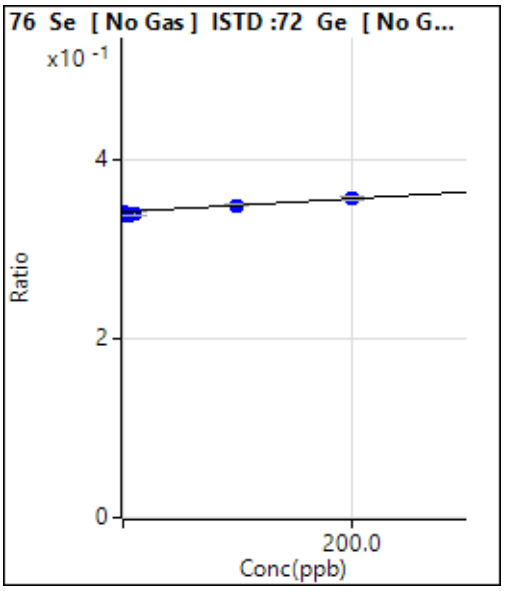


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	110.00	0.0002	P	5.6	
2	☐	2.000	2.018	2335.77	0.0040	P	3.1	0.9
3	☐	5.000	4.894	5540.05	0.0095	P	1.7	-2.1
4	☐	10.000	9.847	10948.93	0.0190	P	1.0	-1.5
5	☐	100.000	99.223	109929.17	0.1898	P	0.4	-0.8
6	☐	200.000	200.398	214826.36	0.3831	P	0.5	0.2

y = 0.0019 * x + 1.8901E-004
R = 1.0000
DL = 0.01666 ppb
BEC = 0.09891 ppb

Weight: <None>
Min Conc: <None>

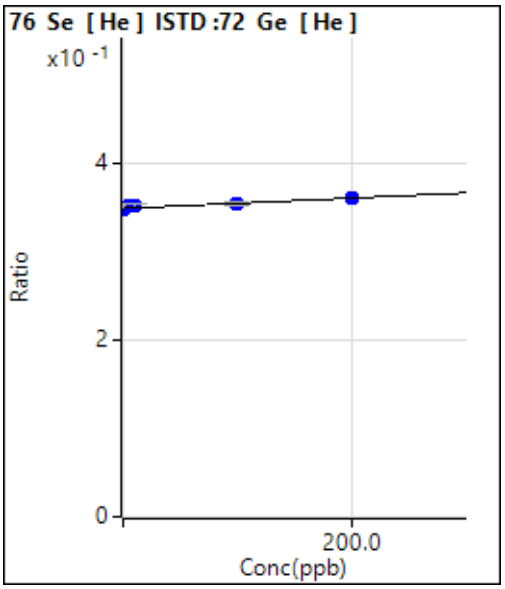
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	677131.66	0.3419	P	0.8	
2	☐	2.000	-69.016	677490.59	0.3368	P	0.2	-3550.
3	☐	5.000	-56.418	678057.10	0.3377	P	0.4	-1228.
4	☐	10.000	-32.369	675214.91	0.3395	P	1.2	-423.7
5	☐	100.000	98.795	693559.36	0.3492	P	0.6	-1.2
6	☐	200.000	204.967	692104.21	0.3570	P	1.3	2.5

y = 7.3863E-005 * x + 0.3419
R = 0.9706
DL = 108.5 ppb
BEC = 4629 ppb

Weight: <None>
Min Conc: <None>

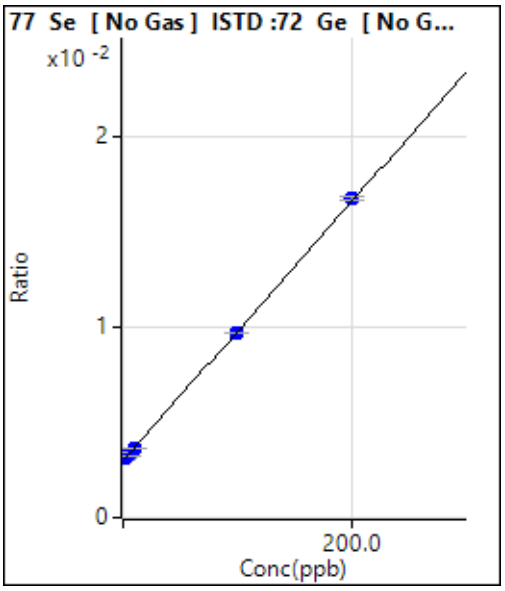


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	203128.65	0.3491	P	0.3	
2	☐	2.000	26.821	202442.39	0.3507	P	1.3	1241.1
3	☐	5.000	37.745	204015.07	0.3513	P	0.2	654.9
4	☐	10.000	55.696	203017.36	0.3524	P	1.3	457.0
5	☐	100.000	91.990	205385.41	0.3546	P	1.4	-8.0
6	☐	200.000	200.653	202454.87	0.3610	P	0.6	0.3

y = 5.9617E-005 * x + 0.3491
R = 0.9694
DL = 60.71 ppb
BEC = 5855 ppb

Weight: <None>
Min Conc: <None>

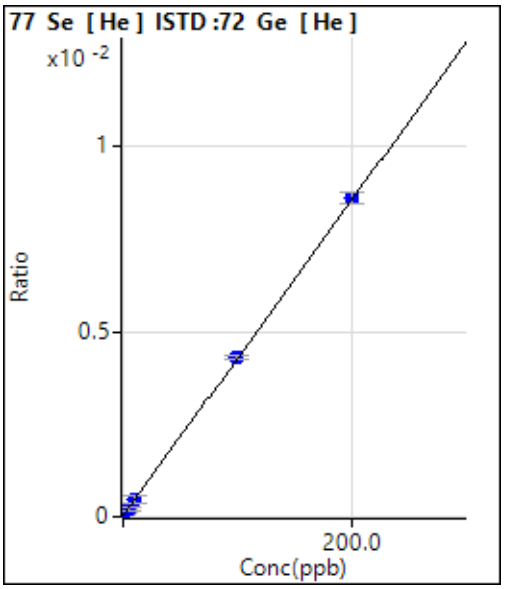
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6118.17	0.0031	P	2.2	
2	☐	2.000	1.304	6391.64	0.0032	P	5.8	-34.8
3	☐	5.000	3.983	6745.13	0.0034	P	5.8	-20.3
4	☐	10.000	8.191	7252.09	0.0036	P	1.3	-18.1
5	☐	100.000	97.460	19290.78	0.0097	P	0.2	-2.5
6	☐	200.000	201.393	32519.58	0.0168	P	1.2	0.7

y = 6.7955E-005 * x + 0.0031
R = 0.9999
DL = 2.964 ppb
BEC = 45.46 ppb

Weight: <None>
Min Conc: <None>

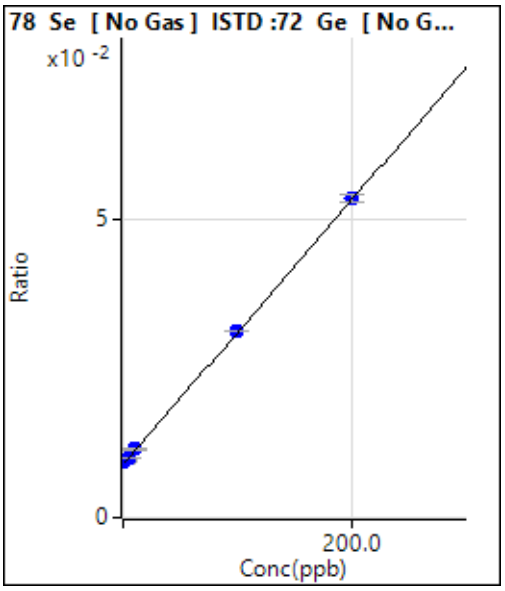


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	43.33	0.0001	P	27.2	
2	☐	2.000	1.764	86.67	0.0001	P	81.2	-11.8
3	☐	5.000	3.227	123.33	0.0002	P	30.2	-35.5
4	☐	10.000	9.238	270.01	0.0005	P	42.6	-7.6
5	☐	100.000	99.393	2496.94	0.0043	P	1.4	-0.6
6	☐	200.000	200.388	4830.95	0.0086	P	3.7	0.2

y = 4.2625E-005 * x + 7.4555E-005
R = 1.0000
DL = 1.425 ppb
BEC = 1.749 ppb

Weight: <None>
Min Conc: <None>

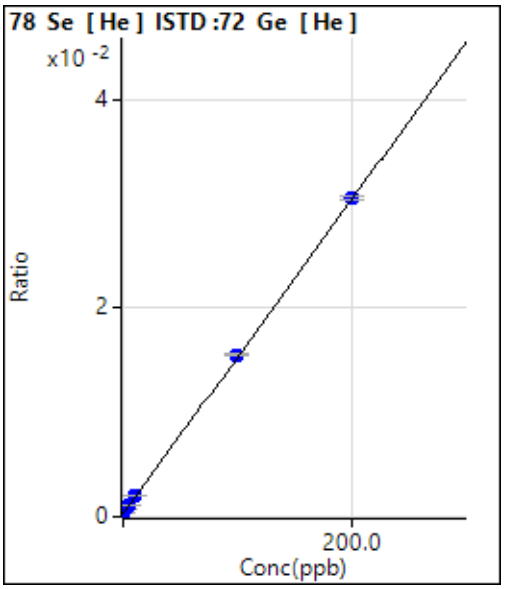
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	18252.60	0.0092	P	2.8	
2	☐	2.000	1.717	19304.10	0.0096	P	1.7	-14.2
3	☐	5.000	3.862	20222.07	0.0101	P	1.9	-22.8
4	☐	10.000	10.136	22803.00	0.0115	P	0.8	1.4
5	☐	100.000	99.768	62236.93	0.0313	P	0.4	-0.2
6	☐	200.000	200.140	103871.50	0.0536	P	1.9	0.1

y = 2.2169E-004 * x + 0.0092
R = 1.0000
DL = 3.488 ppb
BEC = 41.57 ppb

Weight: <None>
Min Conc: <None>

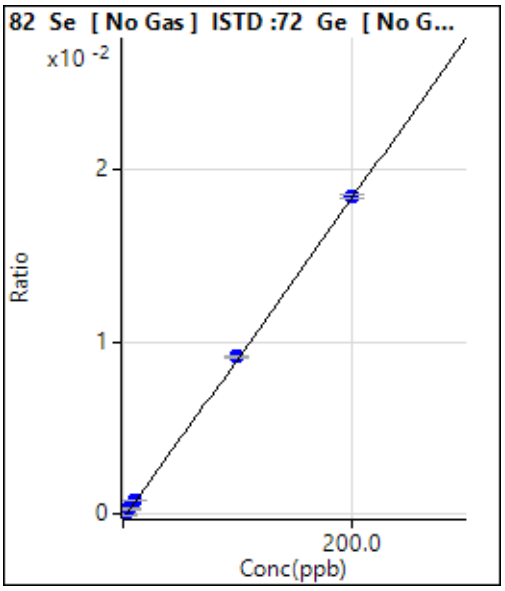


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	250.00	0.0004	P	10.1	
2	☐	2.000	1.857	409.34	0.0007	P	14.7	-7.2
3	☐	5.000	4.498	643.35	0.0011	P	7.0	-10.0
4	☐	10.000	10.581	1166.72	0.0020	P	5.5	5.8
5	☐	100.000	99.864	8969.00	0.0155	P	1.2	-0.1
6	☐	200.000	200.053	17153.57	0.0306	P	0.7	0.0

y = 1.5076E-004 * x + 4.2976E-004
R = 1.0000
DL = 0.8614 ppb
BEC = 2.851 ppb

Weight: <None>
Min Conc: <None>

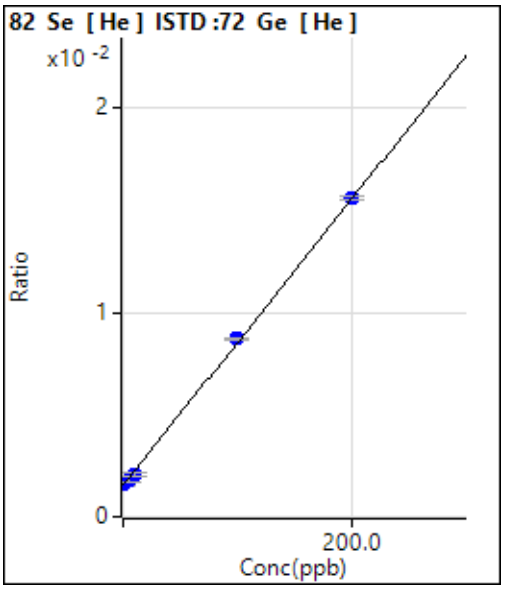
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-386.28	-0.0002	P	-100.	
2	☐	2.000	2.140	7.10	0.0000	P	2543.	7.0
3	☐	5.000	5.496	634.38	0.0003	P	41.0	9.9
4	☐	10.000	10.937	1634.76	0.0008	P	6.4	9.4
5	☐	100.000	100.212	18124.56	0.0091	P	1.5	0.2
6	☐	200.000	199.833	35652.31	0.0184	P	1.2	-0.1

y = 9.3008E-005 * x - 1.9555E-004
R = 1.0000
DL = 6.344 ppb
BEC = -2.102 ppb

Weight: <None>
Min Conc: <None>

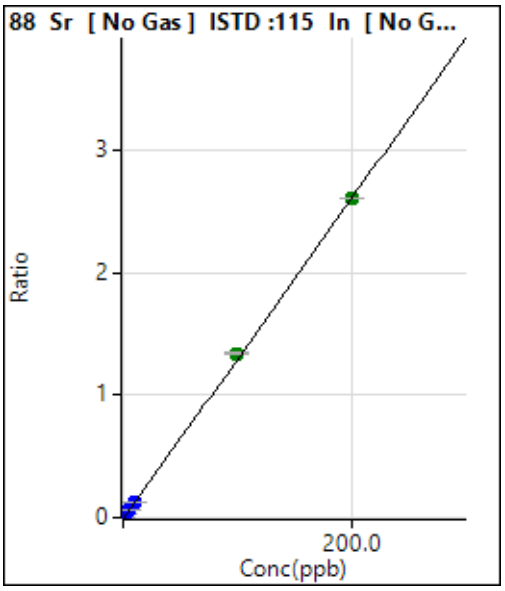


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	943.38	0.0016	P	9.7	
2	☐	2.000	1.494	996.72	0.0017	P	2.8	-25.3
3	☐	5.000	2.740	1053.39	0.0018	P	12.9	-45.2
4	☐	10.000	6.247	1186.74	0.0021	P	9.7	-37.5
5	☐	100.000	101.063	5041.02	0.0087	P	1.1	1.1
6	☐	200.000	199.718	8756.31	0.0156	P	1.3	-0.1

y = 7.0072E-005 * x + 0.0016
R = 0.9998
DL = 6.735 ppb
BEC = 23.14 ppb

Weight: <None>
Min Conc: <None>

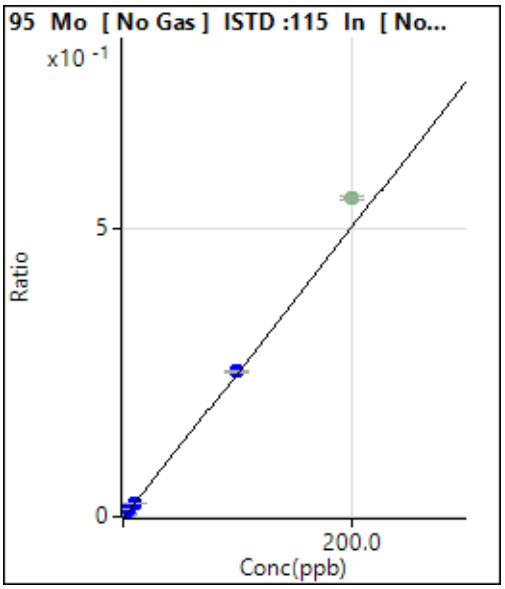
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1736.81	0.0008	P	2.5	
2	☐	2.000	1.892	54628.34	0.0256	P	2.8	-5.4
3	☐	5.000	4.693	135150.68	0.0622	P	0.6	-6.1
4	☐	10.000	9.399	266188.68	0.1238	P	1.5	-6.0
5	☐	100.000	102.019	2820017.87	1.3355	A	1.4	2.0
6	☐	200.000	199.029	5352717.42	2.6047	A	0.4	-0.5

y = 0.0131 * x + 8.0485E-004
R = 0.9999
DL = 0.004636 ppb
BEC = 0.06152 ppb

Weight: <None>
Min Conc: <None>

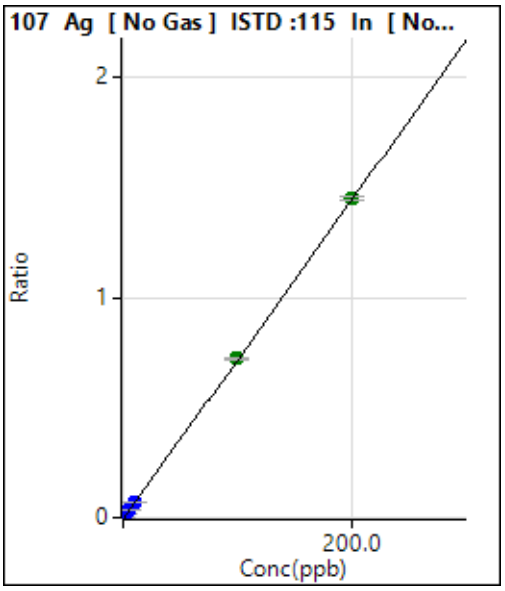


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	60.00	0.0000	P	33.5	
2	☐	2.000	1.950	10567.68	0.0049	P	2.7	-2.5
3	☐	5.000	4.787	26279.57	0.0121	P	2.6	-4.3
4	☐	10.000	9.774	53052.37	0.0247	P	1.1	-2.3
5	☐	100.000	100.034	532489.44	0.2522	P	0.7	0.0
6	☑	200.000		1135674.07	0.5526	A	1.0	

y = 0.0025 * x + 2.7822E-005
R = 1.0000
DL = 0.01109 ppb
BEC = 0.01104 ppb

Weight: <None>
Min Conc: <None>

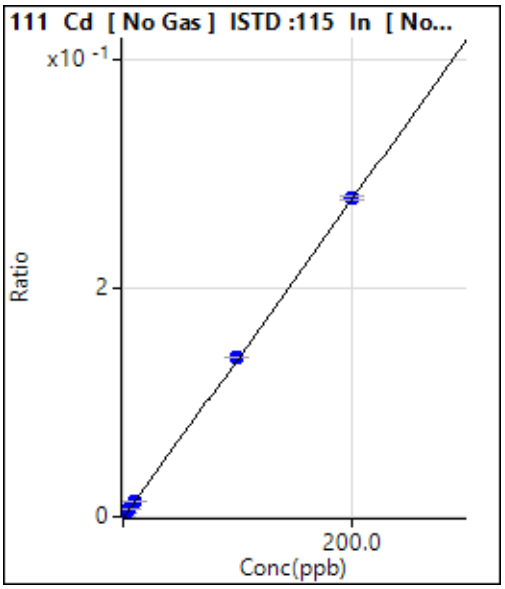
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	610.03	0.0003	P	6.4	
2	☐	2.000	1.821	28855.06	0.0135	P	2.2	-8.9
3	☐	5.000	4.451	70802.60	0.0326	P	1.4	-11.0
4	☐	10.000	9.215	144441.95	0.0672	P	1.5	-7.9
5	☐	100.000	99.836	1530508.94	0.7248	A	0.9	-0.2
6	☐	200.000	200.137	2985480.37	1.4528	A	1.5	0.1

y = 0.0073 * x + 2.8276E-004
R = 1.0000
DL = 0.007432 ppb
BEC = 0.03896 ppb

Weight: <None>
Min Conc: <None>

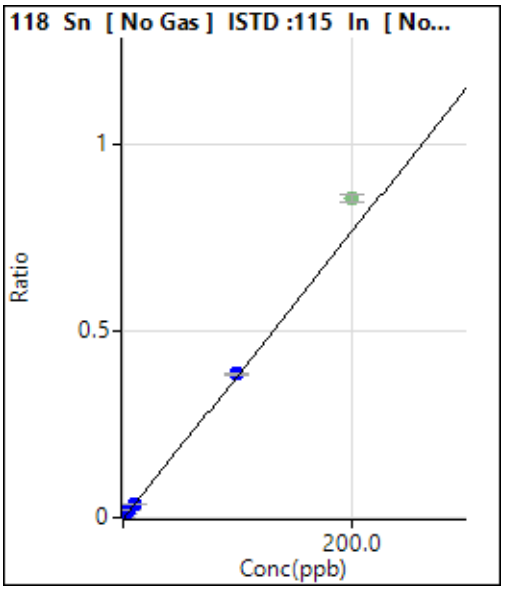


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20.00	0.0000	P	86.6	
2	☐	2.000	1.883	5634.61	0.0026	P	3.0	-5.8
3	☐	5.000	4.799	14564.94	0.0067	P	0.9	-4.0
4	☐	10.000	9.492	28494.47	0.0132	P	1.3	-5.1
5	☐	100.000	99.576	293302.83	0.1389	P	0.1	-0.4
6	☐	200.000	200.243	573988.20	0.2793	P	1.1	0.1

y = 0.0014 * x + 9.2706E-006
R = 1.0000
DL = 0.01728 ppb
BEC = 0.006646 ppb

Weight: <None>
Min Conc: <None>

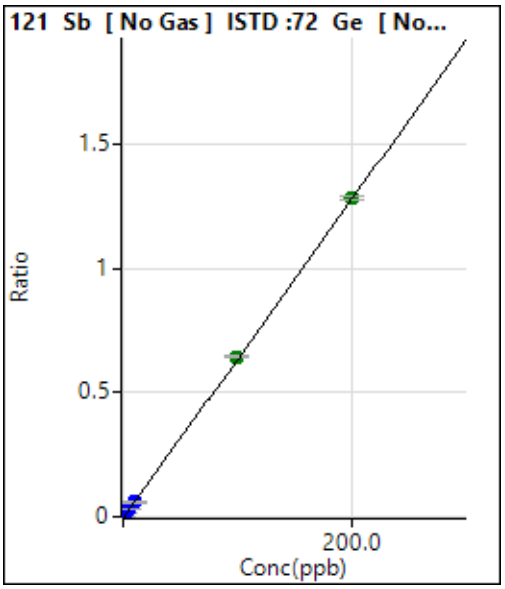
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2143.55	0.0010	P	12.7	
2	☐	2.000	1.878	17575.33	0.0082	P	2.8	-6.1
3	☐	5.000	4.722	41656.42	0.0192	P	2.8	-5.6
4	☐	10.000	9.627	81847.33	0.0381	P	1.3	-3.7
5	☐	100.000	100.054	815411.32	0.3862	P	1.0	0.1
6	☑	200.000		1761499.66	0.8572	A	2.2	

y = 0.0038 * x + 9.9375E-004
R = 1.0000
DL = 0.09835 ppb
BEC = 0.2581 ppb

Weight: <None>
Min Conc: <None>

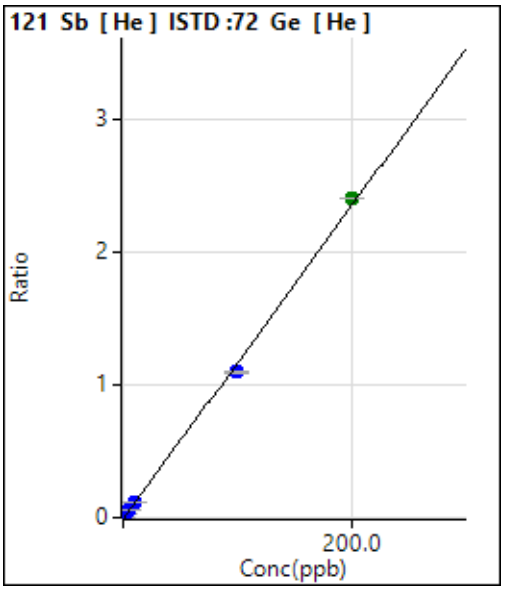


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	563.36	0.0003	P	3.1	
2	☐	2.000	1.836	24259.35	0.0121	P	1.7	-8.2
3	☐	5.000	4.500	58507.18	0.0291	P	0.5	-10.0
4	☐	10.000	9.120	116864.40	0.0588	P	2.8	-8.8
5	☐	100.000	100.117	1275799.85	0.6423	A	1.0	0.1
6	☐	200.000	200.000	2487047.67	1.2828	A	0.8	0.0

y = 0.0064 * x + 2.8439E-004
R = 1.0000
DL = 0.004138 ppb
BEC = 0.04435 ppb

Weight: <None>
Min Conc: <None>

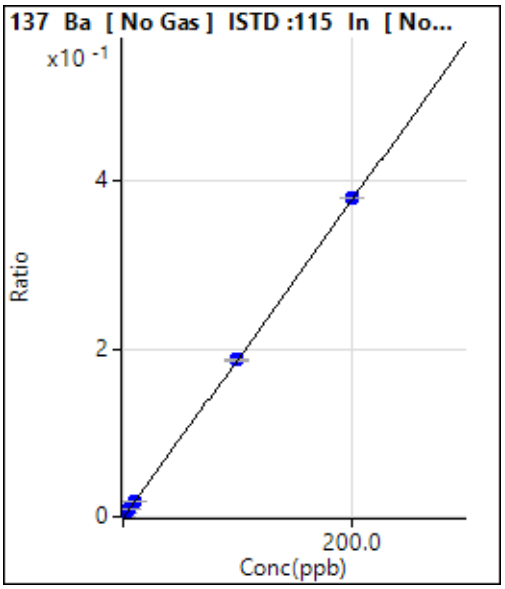
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	293.34	0.0005	P	20.1	
2	☐	2.000	1.850	12899.87	0.0223	P	1.8	-7.5
3	☐	5.000	4.592	31778.81	0.0547	P	0.8	-8.2
4	☐	10.000	9.349	63882.12	0.1109	P	0.8	-6.5
5	☐	100.000	92.693	634189.92	1.0949	P	0.2	-7.3
6	☐	200.000	203.698	1348871.23	2.4055	A	0.5	1.8

y = 0.0118 * x + 5.0462E-004
R = 0.9991
DL = 0.02574 ppb
BEC = 0.04274 ppb

Weight: <None>
Min Conc: <None>

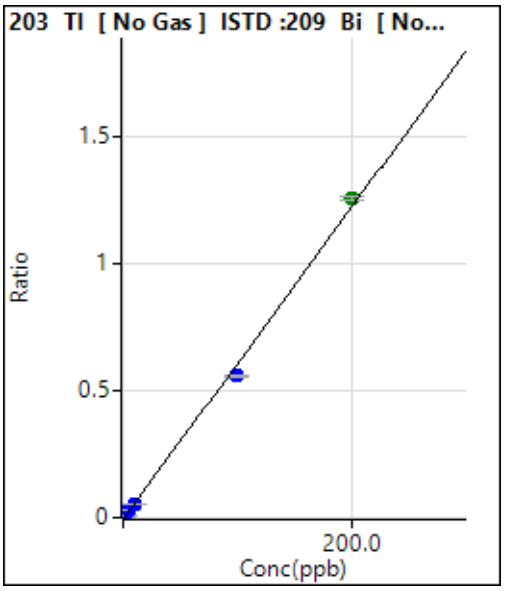


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	230.01	0.0001	P	8.9	
2	☐	2.000	1.860	7745.81	0.0036	P	2.1	-7.0
3	☐	5.000	4.808	19985.75	0.0092	P	1.9	-3.8
4	☐	10.000	9.666	39540.59	0.0184	P	0.9	-3.3
5	☐	100.000	98.710	394332.38	0.1868	P	1.9	-1.3
6	☐	200.000	200.668	780035.72	0.3796	P	0.3	0.3

y = 0.0019 * x + 1.0661E-004
R = 1.0000
DL = 0.01513 ppb
BEC = 0.05638 ppb

Weight: <None>
Min Conc: <None>

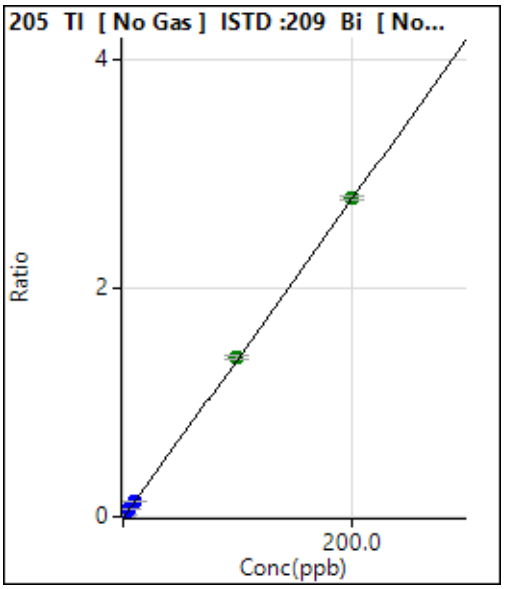
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	60.00	0.0000	P	28.6	
2	☐	2.000	1.718	17479.17	0.0106	P	2.8	-14.1
3	☐	5.000	4.362	44067.93	0.0269	P	1.7	-12.8
4	☐	10.000	8.816	88844.58	0.0543	P	2.4	-11.8
5	☐	100.000	90.768	891934.96	0.5587	P	2.2	-9.2
6	☐	200.000	204.694	1979808.83	1.2598	A	0.8	2.3

y = 0.0062 * x + 3.6229E-005
R = 0.9986
DL = 0.005058 ppb
BEC = 0.005887 ppb

Weight: <None>
Min Conc: <None>

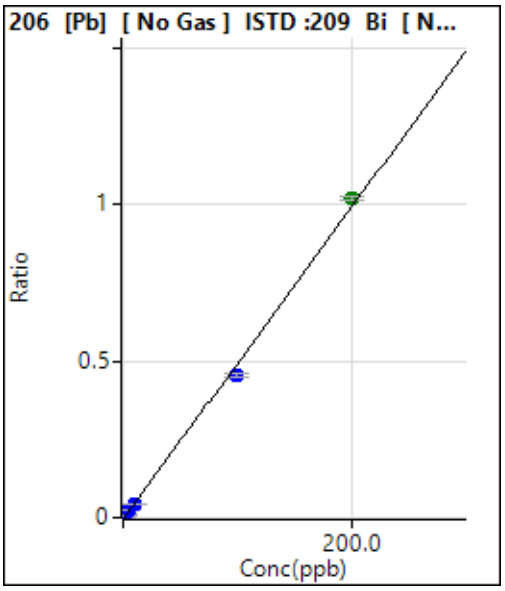


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	130.00	0.0001	P	47.9	
2	☐	2.000	1.753	40435.72	0.0245	P	2.9	-12.3
3	☐	5.000	4.530	103762.33	0.0633	P	1.3	-9.4
4	☐	10.000	9.157	209237.24	0.1279	P	0.4	-8.4
5	☐	100.000	100.070	2229834.81	1.3965	A	2.4	0.1
6	☐	200.000	200.021	4386457.44	2.7913	A	1.1	0.0

y = 0.0140 * x + 7.9019E-005
R = 1.0000
DL = 0.008144 ppb
BEC = 0.005663 ppb

Weight: <None>
Min Conc: <None>

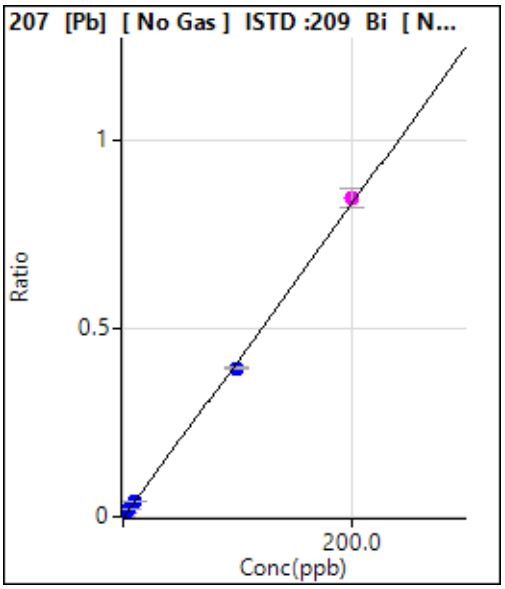
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	586.69	0.0004	P	8.1	
2	☐	2.000	1.754	14995.91	0.0091	P	3.7	-12.3
3	☐	5.000	4.439	36884.88	0.0225	P	1.2	-11.2
4	☐	10.000	8.830	72658.21	0.0444	P	1.5	-11.7
5	☐	100.000	90.937	724817.57	0.4540	P	2.2	-9.1
6	☐	200.000	204.606	1604352.17	1.0210	A	1.3	2.3

y = 0.0050 * x + 3.5454E-004
R = 0.9986
DL = 0.01725 ppb
BEC = 0.07107 ppb

Weight: <None>
Min Conc: <None>

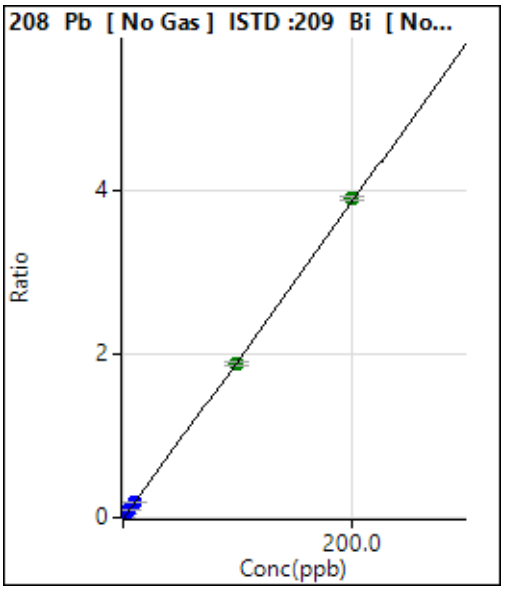


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	626.75	0.0004	P	38.7	
2	☐	2.000	1.782	12886.86	0.0078	P	1.1	-10.9
3	☐	5.000	4.570	31914.49	0.0195	P	0.6	-8.6
4	☐	10.000	9.189	63424.47	0.0388	P	0.6	-8.1
5	☐	100.000	94.440	630376.79	0.3948	P	1.6	-5.6
6	☐	200.000	202.834	1332308.68	0.8475	M	5.7	1.4

y = 0.0042 * x + 3.8026E-004
R = 0.9995
DL = 0.1056 ppb
BEC = 0.09105 ppb

Weight: <None>
Min Conc: <None>

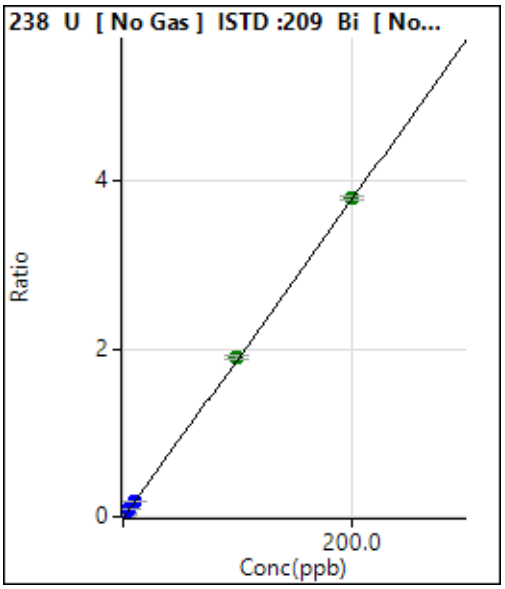
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2460.20	0.0015	P	12.2	
2	☐	2.000	1.783	59506.61	0.0361	P	2.0	-10.9
3	☐	5.000	4.544	147162.11	0.0898	P	0.3	-9.1
4	☐	10.000	9.073	290896.58	0.1777	P	0.7	-9.3
5	☐	100.000	97.088	3013768.65	1.8876	A	1.9	-2.9
6	☐	200.000	201.516	6154404.76	3.9162	A	0.8	0.8

y = 0.0194 * x + 0.0015
R = 0.9999
DL = 0.02798 ppb
BEC = 0.07658 ppb

Weight: <None>
Min Conc: <None>

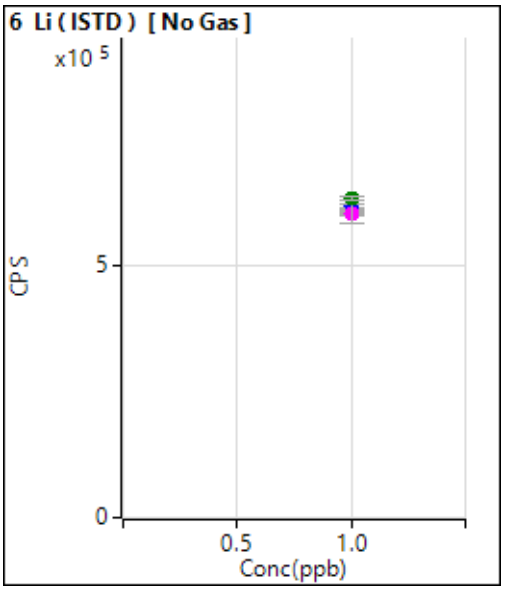


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	63.33	0.0000	P	41.4	
2	☐	2.000	1.817	56845.43	0.0345	P	2.7	-9.1
3	☐	5.000	4.578	142408.13	0.0869	P	1.7	-8.4
4	☐	10.000	9.180	284974.05	0.1741	P	0.5	-8.2
5	☐	100.000	99.869	3024134.96	1.8940	A	1.9	-0.1
6	☐	200.000	200.119	5963417.41	3.7952	A	1.2	0.1

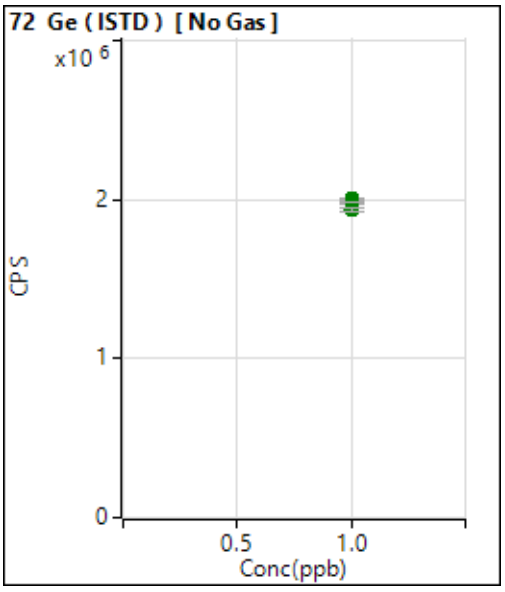
y = 0.0190 * x + 3.8401E-005
R = 1.0000
DL = 0.002517 ppb
BEC = 0.002025 ppb

Weight: <None>
Min Conc: <None>

Calibration for 016_ICV.d

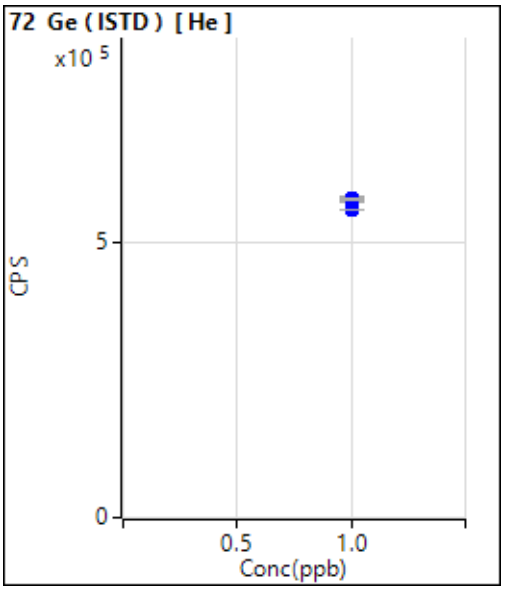


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		616359.01		P	1.1	
2	☐	1.000		604711.65		P	0.9	
3	☐	1.000		606817.16		P	0.7	
4	☐	1.000		601503.19		P	1.1	
5	☐	1.000		601739.69		M	6.3	
6	☐	1.000		633161.51		A	0.7	

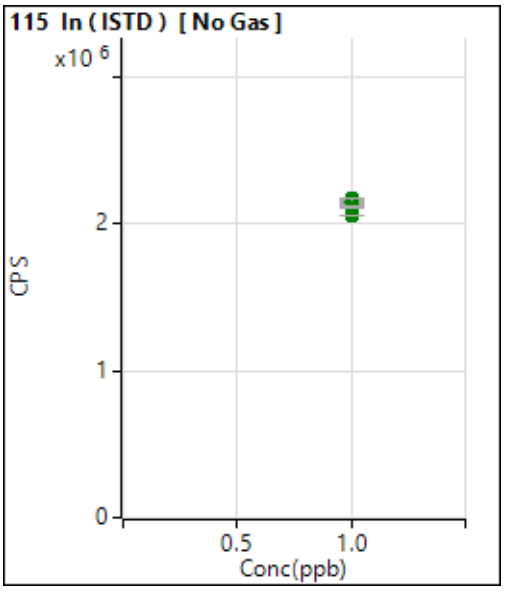


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1980659.66		A	0.6	
2	☐	1.000		2011657.63		A	0.4	
3	☐	1.000		2007762.05		A	0.4	
4	☐	1.000		1989155.44		A	1.5	
5	☐	1.000		1986258.25		A	0.1	
6	☐	1.000		1938826.59		A	1.6	

Calibration for 016_ICV.d

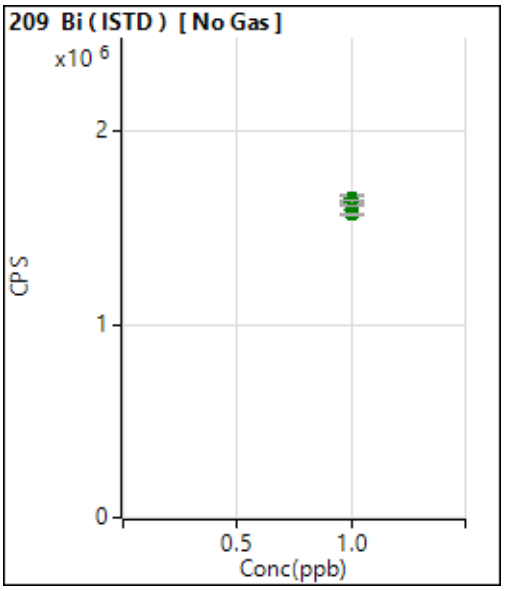


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		581897.99		P	0.8	
2	☐	1.000		577331.79		P	1.1	
3	☐	1.000		580696.08		P	0.8	
4	☐	1.000		576115.84		P	0.5	
5	☐	1.000		579218.40		P	0.8	
6	☐	1.000		560743.94		P	0.4	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2157827.72		A	0.5	
2	☐	1.000		2137332.46		A	0.1	
3	☐	1.000		2172812.40		A	0.5	
4	☐	1.000		2150961.29		A	1.4	
5	☐	1.000		2111613.01		A	0.9	
6	☐	1.000		2055076.06		A	0.6	

Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1655793.52		A	2.0	
2	☐	1.000		1647952.27		A	1.9	
3	☐	1.000		1639468.36		A	1.2	
4	☐	1.000		1636499.66		A	0.7	
5	☐	1.000		1597174.66		A	2.6	
6	☐	1.000		1571435.60		A	1.1	

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	010CALB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T10:36:48-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	37513	0.00
Be	9	1	No Gas	38	51.98
V	51	2	He	1446	0.53
Cr	52	2	He	877	0.53
Fe	56	2	He	15352	0.01
Se	78	2	He	250	3.88
As	75	2	He	110	5.51
Ca	44	2	He	1260	0.29
Na	23	2	He	99148	0.00
Mg	24	2	He	710	0.79
K	39	2	He	95949	0.00
Mn	55	2	He	247	9.05
Co	59	2	He	133	18.08
Ni	60	2	He	1820	0.35
Cu	63	2	He	6862	0.06
Zn	66	2	He	617	1.69
Al	27	2	He	1253	0.41
B	11	1	No Gas	6333	0.00
Al	27	1	No Gas	48130	0.00
Si	28	1	No Gas	545324	0.00
Ag	107	1	No Gas	610	0.97
Cd	111	1	No Gas	20	433.01
Sr	88	1	No Gas	1737	0.16
Mo	95	1	No Gas	60	55.56
Sn	118	1	No Gas	2144	0.57
Sb	121	1	No Gas	563	0.66
Ba	137	1	No Gas	230	3.78
Tl	205	1	No Gas	130	35.50
Tl	203	1	No Gas	60	48.11
Pb	208	1	No Gas	2460	0.43
U	238	1	No Gas	63	62.74
Ca	43	2	He	17	207.85
Sb	121	2	He	293	6.61
Ti	47	2	He	7	1299.04
Cu	63	1	No Gas	11558	0.01

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD

Calibration Blank Report

Li	6	1	No Gas	616359	1.15
Ge	72	2	He	581898	0.81
Ge	72	1	No Gas	1980660	0.60
In	115	1	No Gas	2157828	0.46

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Bi	209	1	No Gas	1655794	2.02

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	011CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T10:38:57-05:00
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	5418	0.08
V	51	2	He	12644	0.02
Cr	52	2	He	14461	0.01
Fe	56	2	He	1332269	0.00
Se	78	2	He	409	3.38
As	75	2	He	2336	0.17
Ca	44	2	He	8056	0.04
Na	23	2	He	292560	0.00
Mg	24	2	He	112692	0.00
K	39	2	He	228151	0.00
Mn	55	2	He	9287	0.05
Co	59	2	He	20322	0.01
Ni	60	2	He	8176	0.04
Cu	63	2	He	25822	0.01
Zn	66	2	He	3714	0.28
Al	27	2	He	1603	0.33
B	11	1	No Gas	19530	0.00
Al	27	1	No Gas	59588	0.00
Si	28	1	No Gas	587333	0.00
Ag	107	1	No Gas	28855	0.01
Cd	111	1	No Gas	5635	0.05
Sr	88	1	No Gas	54628	0.01
Mo	95	1	No Gas	10568	0.02
Sn	118	1	No Gas	17575	0.02
Sb	121	1	No Gas	24259	0.01
Ba	137	1	No Gas	7746	0.03
Tl	205	1	No Gas	40436	0.00
Tl	203	1	No Gas	17479	0.02
Pb	208	1	No Gas	59507	0.00
U	238	1	No Gas	56845	0.00
Ca	43	2	He	447	0.77
Sb	121	2	He	12900	0.01
Cu	63	1	No Gas	44072	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	604712	0.94	616359	98.11	70	120	
Ge	72	2	He	577332	1.11	581898	99.22	70	120	
Ge	72	1	No Gas	2011658	0.44	1980660	101.57	70	120	

Calibration Standard Report

In	115	1	No Gas	2137332	0.12	2157828	99.05	70	120	
Bi	209	1	No Gas	1647952	1.88	1655794	99.53	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	012CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T10:41:06-05:00
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	12924	0.02
V	51	2	He	29927	0.00
Cr	52	2	He	34213	0.00
Fe	56	2	He	3224288	0.00
Se	78	2	He	643	1.10
As	75	2	He	5540	0.04
Ca	44	2	He	17608	0.02
Na	23	2	He	589282	0.00
Mg	24	2	He	278369	0.00
K	39	2	He	427140	0.00
Mn	55	2	He	22723	0.02
Co	59	2	He	50842	0.00
Ni	60	2	He	13887	0.00
Cu	63	2	He	39300	0.00
Zn	66	2	He	7319	0.02
Al	27	2	He	2444	0.18
B	11	1	No Gas	40440	0.00
Al	27	1	No Gas	96848	0.00
Si	28	1	No Gas	689886	0.00
Ag	107	1	No Gas	70803	0.00
Cd	111	1	No Gas	14565	0.01
Sr	88	1	No Gas	135151	0.00
Mo	95	1	No Gas	26280	0.01
Sn	118	1	No Gas	41656	0.01
Sb	121	1	No Gas	58507	0.00
Ba	137	1	No Gas	19986	0.01
Tl	205	1	No Gas	103762	0.00
Tl	203	1	No Gas	44068	0.00
Pb	208	1	No Gas	147162	0.00
U	238	1	No Gas	142408	0.00
Ca	43	2	He	1030	0.57
Sb	121	2	He	31779	0.00
Cu	63	1	No Gas	67614	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	606817	0.66	616359	98.45	70	120	
Ge	72	2	He	580696	0.81	581898	99.79	70	120	
Ge	72	1	No Gas	2007762	0.42	1980660	101.37	70	120	

Calibration Standard Report

In	115	1	No Gas	2172812	0.51	2157828	100.69	70	120	
Bi	209	1	No Gas	1639468	1.16	1655794	99.01	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	013CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T10:43:14-05:00
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	26346	0.01
V	51	2	He	58750	0.00
Cr	52	2	He	66977	0.00
Fe	56	2	He	6332823	0.00
Se	78	2	He	1167	0.49
As	75	2	He	10949	0.01
Ca	44	2	He	33819	0.01
Na	23	2	He	1221314	0.00
Mg	24	2	He	559110	0.00
K	39	2	He	756466	0.00
Mn	55	2	He	44884	0.00
Co	59	2	He	102030	0.00
Ni	60	2	He	27060	0.01
Cu	63	2	He	75479	0.00
Zn	66	2	He	13997	0.02
Al	27	2	He	4251	0.32
B	11	1	No Gas	76311	0.00
Al	27	1	No Gas	161900	0.00
Si	28	1	No Gas	900890	0.00
Ag	107	1	No Gas	144442	0.00
Cd	111	1	No Gas	28494	0.00
Sr	88	1	No Gas	266189	0.00
Mo	95	1	No Gas	53052	0.00
Sn	118	1	No Gas	81847	0.00
Sb	121	1	No Gas	116864	0.00
Ba	137	1	No Gas	39541	0.00
Tl	205	1	No Gas	209237	0.00
Tl	203	1	No Gas	88845	0.00
Pb	208	1	No Gas	290897	0.00
U	238	1	No Gas	284974	0.00
Ca	43	2	He	2007	0.17
Sb	121	2	He	63882	0.00
Cu	63	1	No Gas	128506	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	601503	1.07	616359	97.59	70	120	
Ge	72	2	He	576116	0.52	581898	99.01	70	120	
Ge	72	1	No Gas	1989155	1.55	1980660	100.43	70	120	

Calibration Standard Report

In	115	1	No Gas	2150961	1.44	2157828	99.68	70	120	
Bi	209	1	No Gas	1636500	0.73	1655794	98.83	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	014CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T10:45:21-05:00
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	262399	0.00
V	51	2	He	580446	0.00
Cr	52	2	He	665290	0.00
Fe	56	2	He	62013529	0.00
Se	78	2	He	8969	0.01
As	75	2	He	109929	0.00
Ca	44	2	He	338276	0.00
Na	23	2	He	10594193	0.00
Mg	24	2	He	5592589	0.00
K	39	2	He	7143438	0.00
Mn	55	2	He	455776	0.00
Co	59	2	He	1030985	0.00
Ni	60	2	He	269493	0.00
Cu	63	2	He	718234	0.00
Zn	66	2	He	138229	0.00
Al	27	2	He	31276	0.01
B	11	1	No Gas	731333	0.00
Al	27	1	No Gas	1362118	0.00
Si	28	1	No Gas	3374158	0.00
Ag	107	1	No Gas	1530509	0.00
Cd	111	1	No Gas	293303	0.00
Sr	88	1	No Gas	2820018	0.00
Mo	95	1	No Gas	532489	0.00
Sn	118	1	No Gas	815411	0.00
Sb	121	1	No Gas	1275800	0.00
Ba	137	1	No Gas	394332	0.00
Tl	205	1	No Gas	2229835	0.00
Tl	203	1	No Gas	891935	0.00
Pb	208	1	No Gas	3013769	0.00
U	238	1	No Gas	3024135	0.00
Ca	43	2	He	19771	0.00
Sb	121	2	He	634190	0.00
Cu	63	1	No Gas	1302025	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	601740	6.31	616359	97.63	70	120	
Ge	72	2	He	579218	0.78	581898	99.54	70	120	
Ge	72	1	No Gas	1986258	0.06	1980660	100.28	70	120	

Calibration Standard Report

In	115	1	No Gas	2111613	0.93	2157828	97.86	70	120	
Bi	209	1	No Gas	1597175	2.57	1655794	96.46	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	015CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T10:47:35-05:00
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	535571	0.00
V	51	2	He	1288401	0.00
Cr	52	2	He	1354810	0.00
Fe	56	2	He	120832235	0.00
Se	78	2	He	17154	0.01
As	75	2	He	214826	0.00
Ca	44	2	He	658340	0.00
Na	23	2	He	20561729	0.00
Mg	24	2	He	10997224	0.00
K	39	2	He	13892909	0.00
Mn	55	2	He	878464	0.00
Co	59	2	He	2185723	0.00
Ni	60	2	He	515796	0.00
Cu	63	2	He	1472467	0.00
Zn	66	2	He	269232	0.00
Al	27	2	He	59574	0.00
B	11	1	No Gas	1575823	0.00
Al	27	1	No Gas	2649932	0.00
Si	28	1	No Gas	6027289	0.00
Ag	107	1	No Gas	2985480	0.00
Cd	111	1	No Gas	573988	0.00
Sr	88	1	No Gas	5352717	0.00
Mo	95	1	No Gas	1135674	0.00
Sn	118	1	No Gas	1761500	0.00
Sb	121	1	No Gas	2487048	0.00
Ba	137	1	No Gas	780036	0.00
Tl	205	1	No Gas	4386457	0.00
Tl	203	1	No Gas	1979809	0.00
Pb	208	1	No Gas	6154405	0.00
U	238	1	No Gas	5963417	0.00
Ca	43	2	He	39092	0.01
Sb	121	2	He	1348871	0.00
Cu	63	1	No Gas	2509065	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	633162	0.66	616359	102.73	70	120	
Ge	72	2	He	560744	0.41	581898	96.36	70	120	
Ge	72	1	No Gas	1938827	1.61	1980660	97.89	70	120	

Calibration Standard Report

In	115	1	No Gas	2055076	0.57	2157828	95.24	70	120	
Bi	209	1	No Gas	1571436	1.10	1655794	94.91	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	016_ICV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T10:51:00-05:00
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	95.558	2.268	1027963	1.03	100	95.6	90	110	
Be	9	1	No Gas	94.314	1.497	274435	0.66	100	94.3	90	110	
V	51	2	He	87.414	0.111	562946	0.63	100	87.4	90	110	ICV Main CR1 Failed
Cr	52	2	He	94.114	0.390	647299	0.39	100	94.1	90	110	
Fe	56	2	He	9744.465	1.563	60268796	0.83	10000	97.4	90	110	
Se	78	2	He	98.460	2.280	8778	1.75	100	98.5	90	110	
As	75	2	He	101.297	0.300	111351	0.65	100	101.3	90	110	
Ca	44	2	He	9696.522	0.722	327305	1.39	10000	97.0	90	110	
Na	23	2	He	9834.845	0.447	10399009	0.30	10000	98.3	90	110	
Mg	24	2	He	9777.391	0.559	5493353	0.20	10000	97.8	90	110	
K	39	2	He	9734.567	0.919	6962505	0.21	10000	97.3	90	110	
Mn	55	2	He	98.390	0.365	443428	0.74	100	98.4	90	110	
Co	59	2	He	90.073	0.773	991251	0.45	100	90.1	90	110	
Ni	60	2	He	98.043	1.142	260451	0.50	100	98.0	90	110	
Cu	63	2	He	93.575	0.997	701084	0.36	100	93.6	90	110	
Zn	66	2	He	99.003	0.836	136666	0.14	100	99.0	90	110	
Al	27	2	He	96.879	1.991	30186	1.43	100	96.9	90	110	
B	11	1	No Gas	477.551	1.944	811399	0.90	500	95.5	90	110	
Al	27	1	No Gas	98.751	3.619	1342074	2.40	100	98.8	90	110	
Si	28	1	No Gas	510.709	2.092	3379754	1.72	500	102.1	90	110	
Ag	107	1	No Gas	99.729	2.118	1518141	1.24	100	99.7	90	110	
Cd	111	1	No Gas	96.592	1.257	282522	0.86	100	96.6	90	110	
Sr	88	1	No Gas	98.905	0.446	2715209	1.66	100	98.9	90	110	
Mo	95	1	No Gas	89.571	1.129	509809	1.00	100	89.6	90	110	ICV Main CR1 Failed
Sn	118	1	No Gas	89.741	0.878	791302	1.04	100	89.7	90	110	ICV Main CR1 Failed
Sb	121	1	No Gas	99.922	1.030	1256219	0.59	100	99.9	90	110	
Ba	137	1	No Gas	96.836	1.677	384169	0.51	100	96.8	90	110	
Tl	205	1	No Gas	101.323	1.890	2214476	1.24	100	101.3	90	110	
Tl	203	1	No Gas	90.806	0.837	875331	0.48	100	90.8	90	110	
Pb	208	1	No Gas	96.279	0.569	2931707	0.41	100	96.3	90	110	
U	238	1	No Gas	97.805	0.640	2905167	0.75	100	97.8	90	110	
Ca	43	2	He	9736.804	1.736	19431	1.09	10000	97.4	90	110	
Sb	121	2	He	92.227	0.422	626095	0.31	100	92.2	90	110	
Ti	47	2	He	100.028	1.373	20736	1.35	100	100.0	90	110	
Cu	63	1	No Gas	101.248	3.132	1291400	2.27	100	101.2	90	110	
Se	82	1	No Gas	98.262	2.433	17528	3.15	100	98.3	90	110	

QC ISTD Table

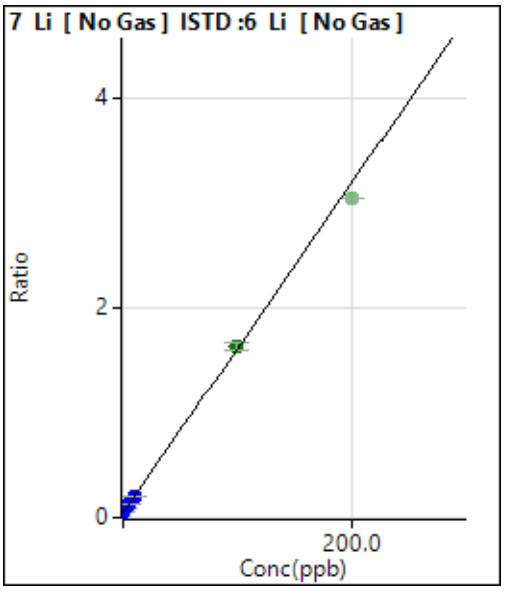
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	683426	1.83	616359	110.88	70	120	
Ge	72	2	He	574720	0.74	581898	98.77	70	120	
Ge	72	1	No Gas	1959753	1.29	1980660	98.94	70	120	
In	115	1	No Gas	2097128	1.81	2157828	97.19	70	120	
Bi	209	1	No Gas	1566260	0.87	1655794	94.59	70	120	

Calibration for 016_ICV.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\083122A.b\
Analysis File: 083122A.batch.bin
DA Date-Time: 08/31/2022 22:43:36
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	010CALB.d	CAL BLK	08/31/2022 10:36:48
2	011CALS.d	2/10/200	08/31/2022 10:38:57
3	012CALS.d	5/25/500	08/31/2022 10:41:06
4	013CALS.d	10/50/100	08/31/2022 10:43:14
5	014CALS.d	100/500/10K	08/31/2022 10:45:21
6	015CALS.d	200/1000/20K	08/31/2022 10:47:35

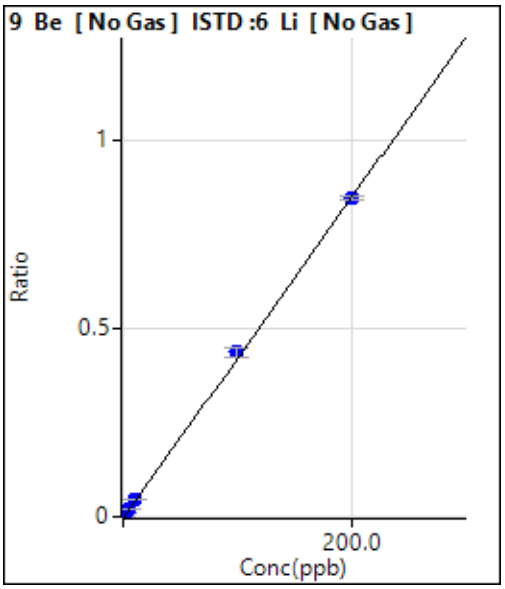
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	37513.31	0.0609	P	0.6	
2	☐	2.000	1.863	54555.27	0.0902	P	0.8	-6.8
3	☐	5.000	4.600	80910.99	0.1333	P	0.6	-8.0
4	☐	10.000	9.249	124240.43	0.2066	P	1.7	-7.5
5	☐	100.000	100.098	983437.12	1.6379	A	5.2	0.1
6	☑	200.000		1930830.28	3.0495	A	0.2	

y = 0.0158 * x + 0.0609
R = 1.0000
DL = 0.06381 ppb
BEC = 3.863 ppb

Weight: <None>
Min Conc: <None>

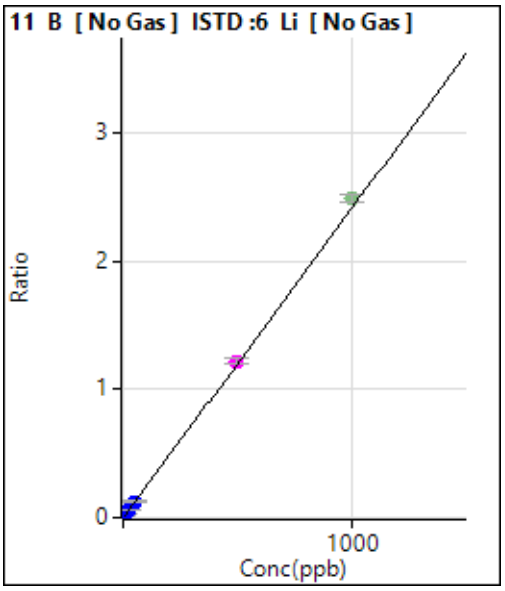


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	38.33	0.0001	P	20.9	
2	☐	2.000	2.090	5417.74	0.0090	P	5.2	4.5
3	☐	5.000	4.988	12924.35	0.0213	P	3.4	-0.2
4	☐	10.000	10.273	26346.39	0.0438	P	1.1	2.7
5	☐	100.000	102.651	262398.76	0.4371	P	5.8	2.7
6	☐	200.000	198.660	535571.12	0.8459	P	1.2	-0.7

y = 0.0043 * x + 6.2289E-005
R = 0.9999
DL = 0.009166 ppb
BEC = 0.01463 ppb

Weight: <None>
Min Conc: <None>

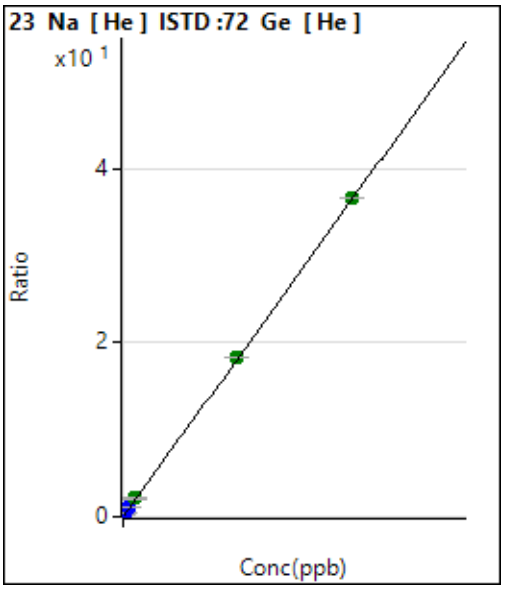
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6333.14	0.0103	P	1.0	
2	☐	10.000	9.133	19530.30	0.0323	P	0.8	-8.7
3	☐	25.000	23.376	40439.73	0.0666	P	0.5	-6.5
4	☐	50.000	48.360	76311.08	0.1269	P	1.7	-3.3
5	☐	500.000	500.263	731332.65	1.2165	M	3.8	0.1
6	☑	1000.000		1575823.05	2.4890	A	2.2	

y = 0.0024 * x + 0.0103
R = 1.0000
DL = 0.1275 ppb
BEC = 4.262 ppb

Weight: <None>
Min Conc: <None>

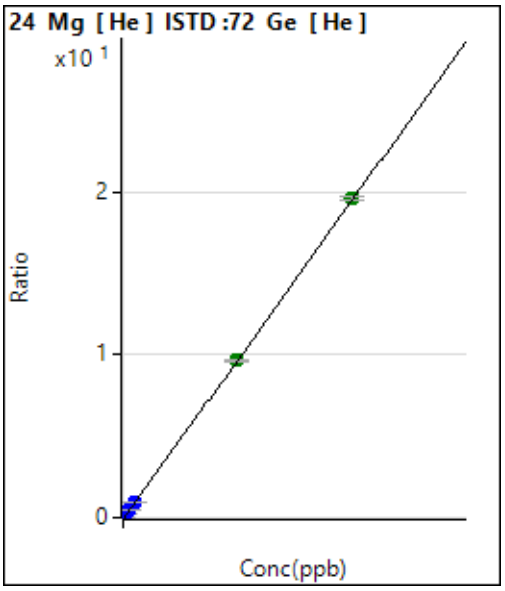


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	99147.79	0.1704	P	2.4	
2	☐	200.000	184.591	292559.88	0.5068	P	1.1	-7.7
3	☐	500.000	463.353	589282.26	1.0148	P	0.8	-7.3
4	☐	1000.000	1069.803	1221314.49	2.1201	A	2.6	7.0
5	☐	10000.00	9942.341	10594193.17	18.2903	A	0.2	-0.6
6	☐	20000.00	20026.40	20561728.86	36.6686	A	0.1	0.1

y = 0.0018 * x + 0.1704
R = 1.0000
DL = 6.711 ppb
BEC = 93.48 ppb

Weight: <None>
Min Conc: <None>

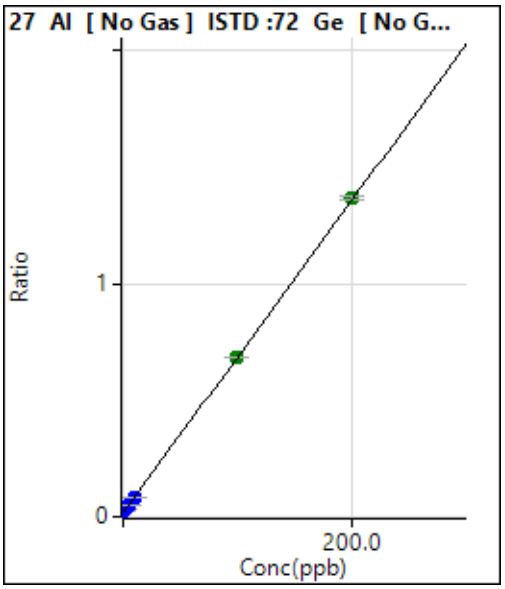
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	710.03	0.0012	P	5.4	
2	☐	200.000	198.464	112692.43	0.1952	P	2.0	-0.8
3	☐	500.000	489.167	278369.06	0.4794	P	0.3	-2.2
4	☐	1000.000	991.604	559110.05	0.9705	P	1.1	-0.8
5	☐	10000.00	9876.710	5592589.29	9.6557	A	0.6	-1.2
6	☐	20000.00	20062.35	10997224.42	19.6121	A	0.9	0.3

y = 9.7749E-004 * x + 0.0012
R = 1.0000
DL = 0.2012 ppb
BEC = 1.248 ppb

Weight: <None>
Min Conc: <None>

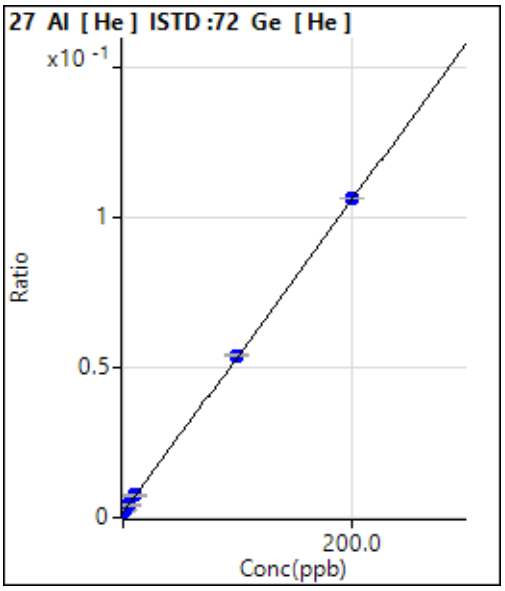


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	48130.08	0.0243	P	1.0	
2	☐	2.000	0.795	59587.73	0.0296	P	0.8	-60.2
3	☐	5.000	3.578	96847.77	0.0482	P	0.7	-28.4
4	☐	10.000	8.535	161899.89	0.0814	P	1.2	-14.7
5	☐	100.000	98.866	1362118.10	0.6858	A	0.3	-1.1
6	☐	200.000	200.688	2649931.84	1.3670	A	1.7	0.3

y = 0.0067 * x + 0.0243
R = 1.0000
DL = 0.107 ppb
BEC = 3.632 ppb

Weight: <None>
Min Conc: <None>

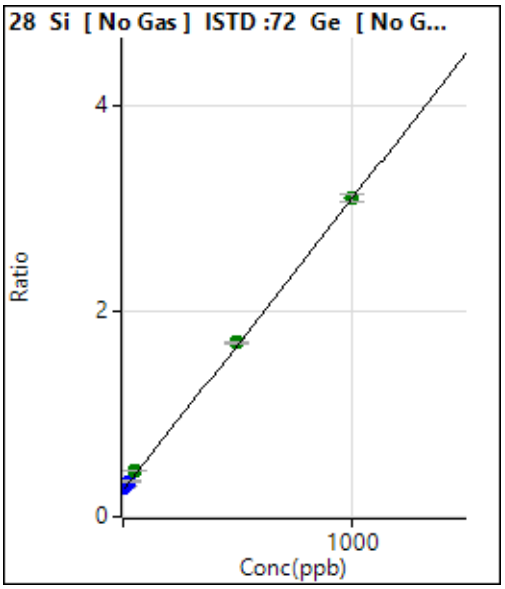
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1253.42	0.0022	P	5.7	
2	☐	2.000	1.198	1603.45	0.0028	P	5.4	-40.1
3	☐	5.000	3.952	2443.60	0.0042	P	5.1	-21.0
4	☐	10.000	10.052	4250.73	0.0074	P	14.0	0.5
5	☐	100.000	99.695	31275.70	0.0540	P	1.6	-0.3
6	☐	200.000	200.184	59574.35	0.1062	P	0.4	0.1

y = 5.1996E-004 * x + 0.0022
R = 1.0000
DL = 0.7063 ppb
BEC = 4.144 ppb

Weight: <None>
Min Conc: <None>

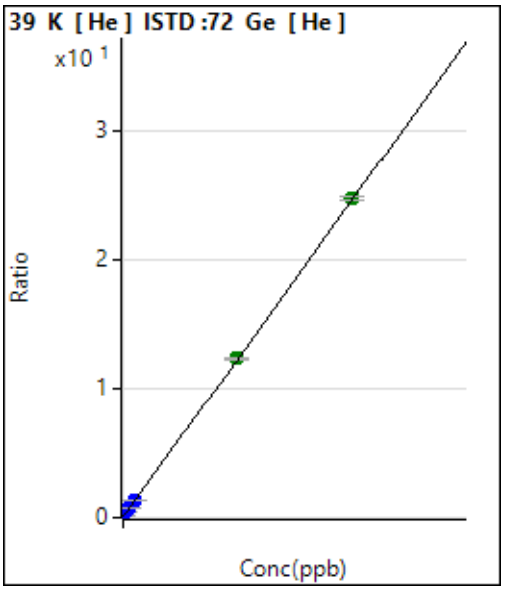


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	545323.58	0.2753	P	1.6	
2	☐	10.000	5.859	587332.76	0.2920	P	1.0	-41.4
3	☐	25.000	24.062	689885.90	0.3436	P	1.8	-3.8
4	☐	50.000	62.603	900890.09	0.4530	A	2.5	25.2
5	☐	500.000	501.568	3374157.86	1.6987	A	1.4	0.3
6	☐	1000.000	998.651	6027289.29	3.1094	A	2.1	-0.1

y = 0.0028 * x + 0.2753
R = 0.9999
DL = 4.558 ppb
BEC = 97.02 ppb

Weight: <None>
Min Conc: <None>

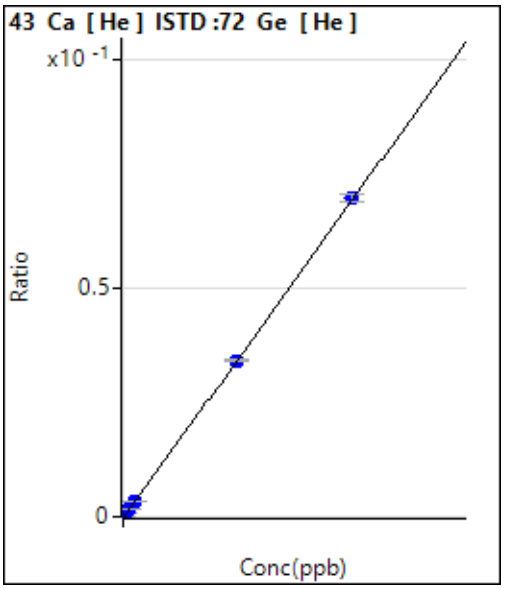
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	95948.73	0.1649	P	1.9	
2	☐	200.000	187.625	228150.77	0.3952	P	1.5	-6.2
3	☐	500.000	464.903	427139.89	0.7356	P	1.2	-7.0
4	☐	1000.000	935.296	756465.59	1.3131	P	0.9	-6.5
5	☐	10000.00	9912.035	7143438.23	12.3330	A	1.3	-0.9
6	☐	20000.00	20048.21	13892908.54	24.7763	A	0.8	0.2

y = 0.0012 * x + 0.1649
R = 1.0000
DL = 7.593 ppb
BEC = 134.3 ppb

Weight: <None>
Min Conc: <None>

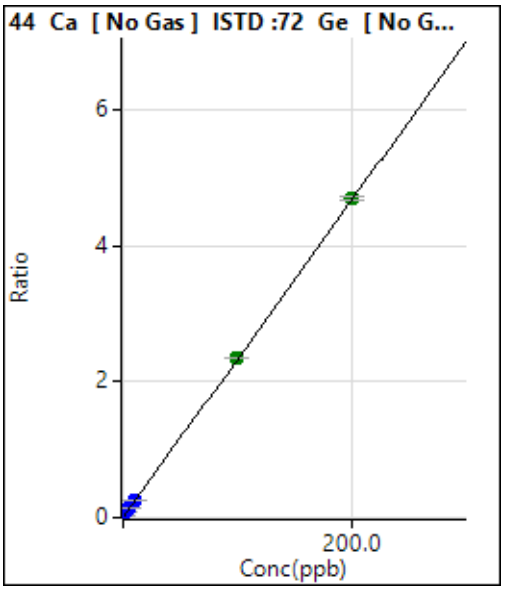


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	34.7	
2	☐	200.000	214.791	446.68	0.0008	P	4.2	7.4
3	☐	500.000	503.040	1030.06	0.0018	P	6.1	0.6
4	☐	1000.000	995.621	2006.86	0.0035	P	3.0	-0.4
5	☐	10000.00	9830.224	19771.10	0.0341	P	1.1	-1.7
6	☐	20000.00	20084.88	39092.41	0.0697	P	2.2	0.4

y = 3.4696E-006 * x + 2.8651E-005
R = 0.9999
DL = 8.607 ppb
BEC = 8.258 ppb

Weight: <None>
Min Conc: <None>

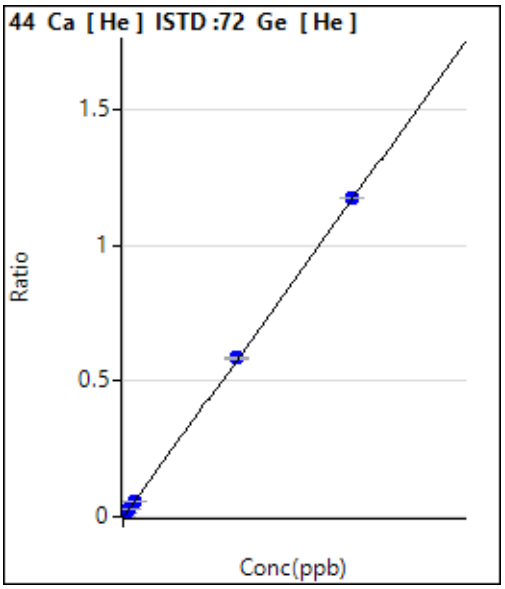
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	55478.66	0.0280	P	2.7	
2	☐	2.000	1.856	143555.84	0.0714	P	0.8	-7.2
3	☐	5.000	4.702	276744.38	0.1378	P	1.1	-6.0
4	☐	10.000	9.554	499558.91	0.2512	P	0.6	-4.5
5	☐	100.000	99.562	4674412.64	2.3534	A	0.9	-0.4
6	☐	200.000	200.250	9120972.36	4.7051	A	1.5	0.1

y = 0.0234 * x + 0.0280
R = 1.0000
DL = 0.09599 ppb
BEC = 1.199 ppb

Weight: <None>
Min Conc: <None>

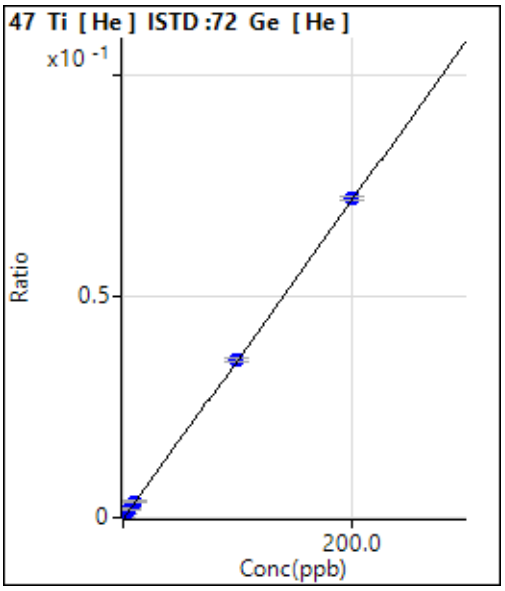


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1260.08	0.0022	P	3.8	
2	☐	200.000	201.444	8055.84	0.0140	P	2.1	0.7
3	☐	500.000	481.225	17608.16	0.0303	P	3.0	-3.8
4	☐	1000.000	966.336	33818.57	0.0587	P	2.4	-3.4
5	☐	10000.00	9944.944	338276.32	0.5840	P	0.2	-0.6
6	☐	20000.00	20029.66	658339.62	1.1741	P	0.4	0.1

y = 5.8508E-005 * x + 0.0022
R = 1.0000
DL = 4.275 ppb
BEC = 37.01 ppb

Weight: <None>
Min Conc: <None>

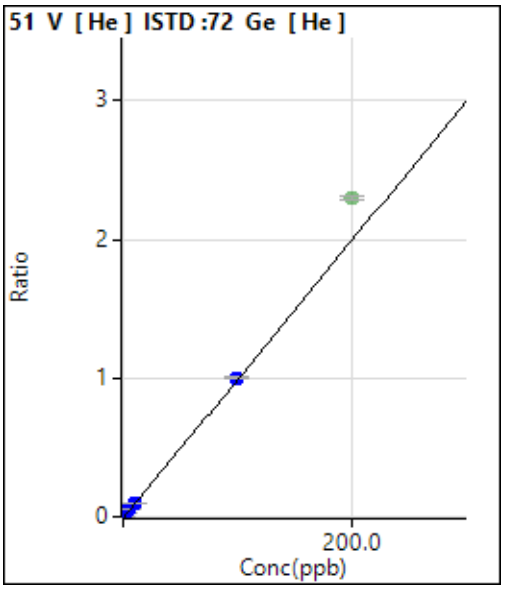
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	86.6	
2	☐	2.000	1.888	400.01	0.0007	P	8.9	-5.6
3	☐	5.000	5.098	1073.40	0.0018	P	16.8	2.0
4	☐	10.000	10.143	2113.53	0.0037	P	4.0	1.4
5	☐	100.000	99.046	20692.45	0.0357	P	2.9	-1.0
6	☐	200.000	200.468	40540.04	0.0723	P	1.1	0.2

y = 3.6059E-004 * x + 1.1465E-005
R = 1.0000
DL = 0.08262 ppb
BEC = 0.0318 ppb

Weight: <None>
Min Conc: <None>

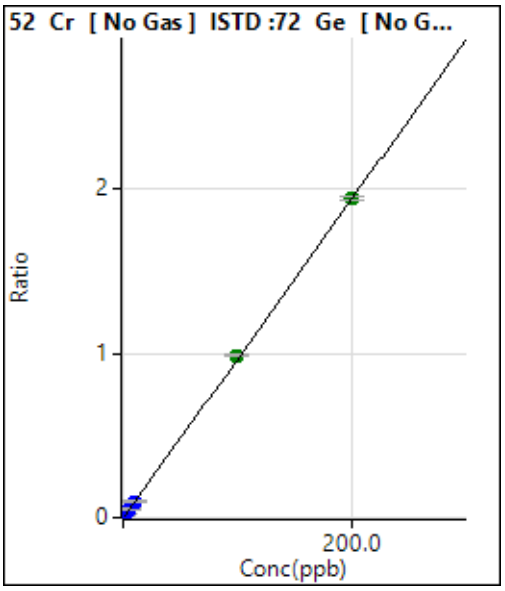


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1445.64	0.0025	P	7.3	
2	☐	2.000	1.943	12643.65	0.0219	P	2.8	-2.9
3	☐	5.000	4.908	29927.05	0.0515	P	1.7	-1.8
4	☐	10.000	9.954	58749.72	0.1020	P	0.9	-0.5
5	☐	100.000	100.010	580446.49	1.0021	P	0.3	0.0
6	☑	200.000		1288400.92	2.2977	A	1.5	

y = 0.0100 * x + 0.0025
R = 1.0000
DL = 0.0542 ppb
BEC = 0.2485 ppb

Weight: <None>
Min Conc: <None>

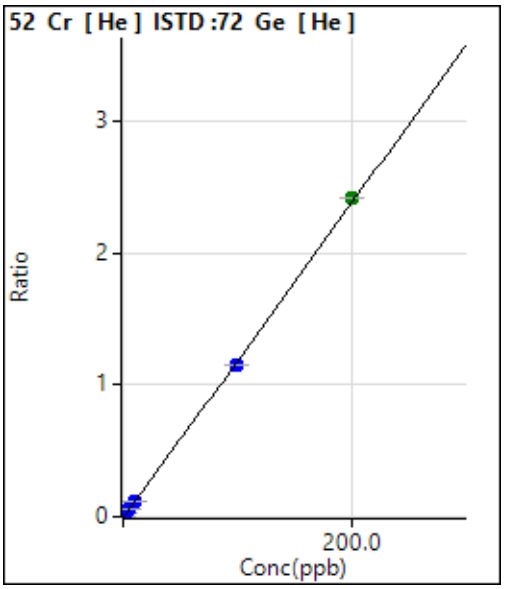
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11738.60	0.0059	P	1.2	
2	☐	2.000	1.967	50356.03	0.0250	P	1.6	-1.6
3	☐	5.000	4.804	105564.60	0.0526	P	1.0	-3.9
4	☐	10.000	9.617	197528.96	0.0993	P	1.2	-3.8
5	☐	100.000	100.889	1957827.57	0.9857	A	0.9	0.9
6	☐	200.000	199.580	3768622.23	1.9441	A	1.7	-0.2

y = 0.0097 * x + 0.0059
R = 1.0000
DL = 0.02243 ppb
BEC = 0.6103 ppb

Weight: <None>
Min Conc: <None>

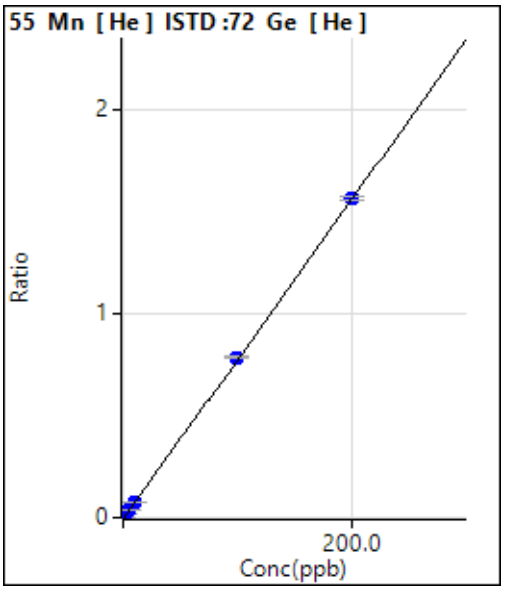


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	876.71	0.0015	P	4.3	
2	☐	2.000	1.970	14461.22	0.0251	P	2.3	-1.5
3	☐	5.000	4.804	34213.13	0.0589	P	1.2	-3.9
4	☐	10.000	9.601	66976.95	0.1163	P	1.0	-4.0
5	☐	100.000	95.979	665289.89	1.1486	P	0.3	-4.0
6	☐	200.000	202.036	1354809.61	2.4161	A	0.5	1.0

y = 0.0120 * x + 0.0015
R = 0.9997
DL = 0.01614 ppb
BEC = 0.1261 ppb

Weight: <None>
Min Conc: <None>

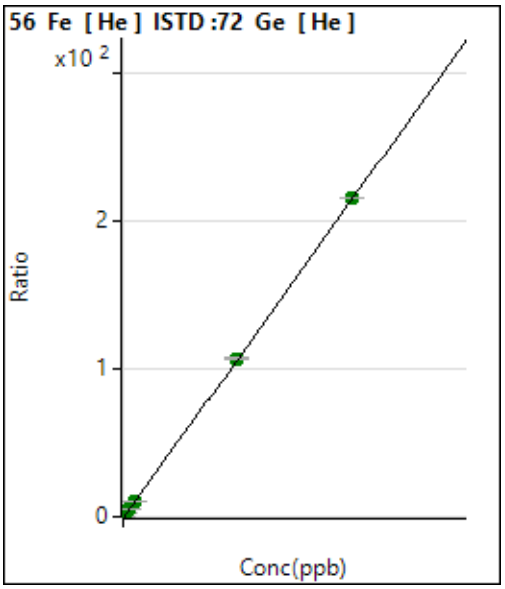
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	246.68	0.0004	P	23.1	
2	☐	2.000	1.998	9286.63	0.0161	P	3.2	-0.1
3	☐	5.000	4.938	22722.58	0.0391	P	4.7	-1.2
4	☐	10.000	9.887	44883.92	0.0779	P	1.5	-1.1
5	☐	100.000	100.345	455775.84	0.7869	P	0.6	0.3
6	☐	200.000	199.835	878464.03	1.5666	P	0.7	-0.1

y = 0.0078 * x + 4.2439E-004
R = 1.0000
DL = 0.03757 ppb
BEC = 0.05415 ppb

Weight: <None>
Min Conc: <None>

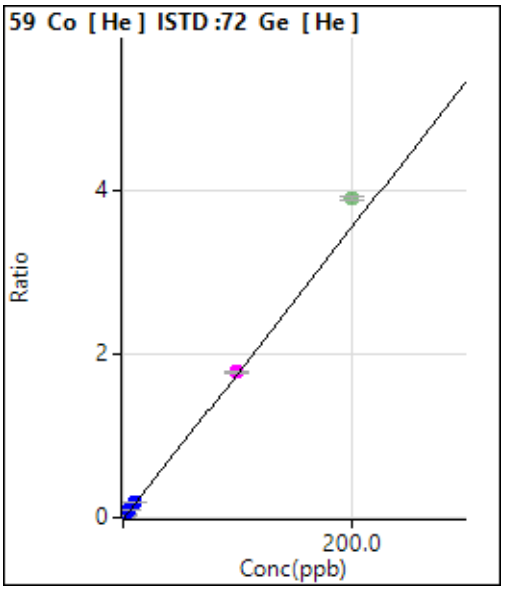


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	15352.34	0.0264	P	3.0	
2	☐	200.000	212.054	1332269.23	2.3080	A	2.8	6.0
3	☐	500.000	513.602	3224288.49	5.5526	A	1.5	2.7
4	☐	1000.000	1019.162	6332822.82	10.9923	A	0.2	1.9
5	☐	10000.00	9948.219	62013529.07	107.066	A	0.8	-0.5
6	☐	20000.00	20024.47	120832234.8	215.484	A	0.2	0.1

y = 0.0108 * x + 0.0264
R = 1.0000
DL = 0.2232 ppb
BEC = 2.452 ppb

Weight: <None>
Min Conc: <None>

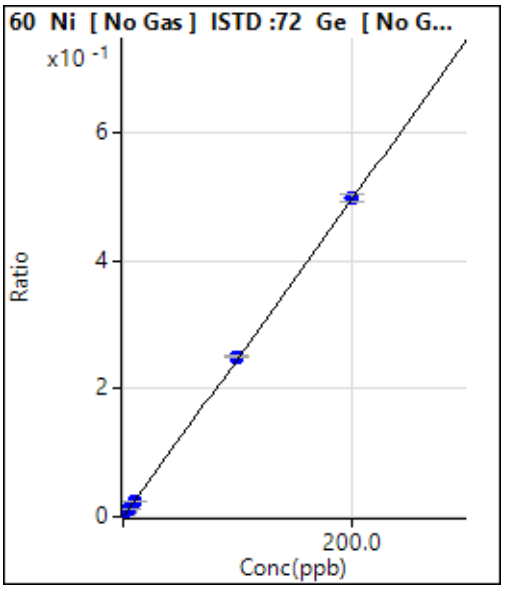
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	133.34	0.0002	P	24.1	
2	☐	2.000	1.965	20322.07	0.0352	P	1.4	-1.7
3	☐	5.000	4.907	50841.57	0.0876	P	1.1	-1.9
4	☐	10.000	9.940	102029.78	0.1771	P	1.0	-0.6
5	☐	100.000	100.011	1030985.19	1.7799	M	1.0	0.0
6	☑	200.000		2185723.46	3.8980	A	0.9	

y = 0.0178 * x + 2.2915E-004
R = 1.0000
DL = 0.009301 ppb
BEC = 0.01288 ppb

Weight: <None>
Min Conc: <None>

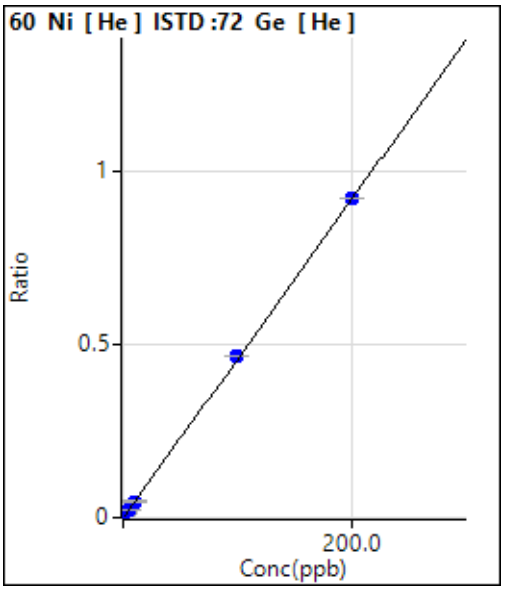


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3173.76	0.0016	P	4.6	
2	☐	2.000	2.412	15288.78	0.0076	P	4.2	20.6
3	☐	5.000	4.475	25557.64	0.0127	P	1.2	-10.5
4	☐	10.000	9.440	49871.40	0.0251	P	2.2	-5.6
5	☐	100.000	99.881	496518.22	0.2500	P	1.1	-0.1
6	☐	200.000	200.097	967609.75	0.4992	P	2.4	0.0

y = 0.0025 * x + 0.0016
R = 1.0000
DL = 0.08957 ppb
BEC = 0.6443 ppb

Weight: <None>
Min Conc: <None>

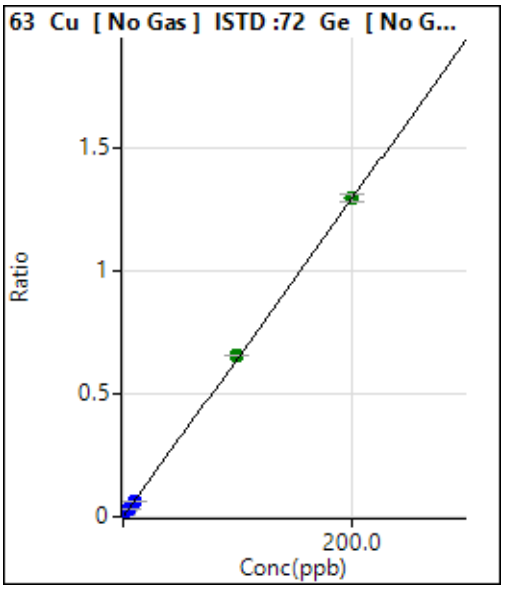
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1820.17	0.0031	P	5.6	
2	☐	2.000	2.405	8175.92	0.0142	P	4.5	20.2
3	☐	5.000	4.529	13887.31	0.0239	P	1.0	-9.4
4	☐	10.000	9.551	27060.50	0.0470	P	2.3	-4.5
5	☐	100.000	100.672	269493.05	0.4653	P	0.8	0.7
6	☐	200.000	199.694	515795.89	0.9198	P	0.2	-0.2

y = 0.0046 * x + 0.0031
R = 1.0000
DL = 0.1135 ppb
BEC = 0.6812 ppb

Weight: <None>
Min Conc: <None>

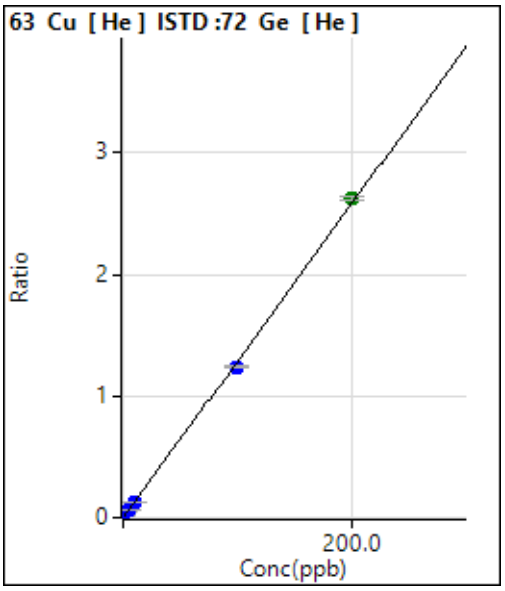


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11558.43	0.0058	P	1.6	
2	☐	2.000	2.491	44071.59	0.0219	P	1.2	24.6
3	☐	5.000	4.315	67614.37	0.0337	P	0.6	-13.7
4	☐	10.000	9.109	128506.17	0.0646	P	1.3	-8.9
5	☐	100.000	100.694	1302024.62	0.6555	A	0.7	0.7
6	☐	200.000	199.710	2509065.43	1.2944	A	1.9	-0.1

y = 0.0065 * x + 0.0058
R = 1.0000
DL = 0.04408 ppb
BEC = 0.9045 ppb

Weight: <None>
Min Conc: <None>

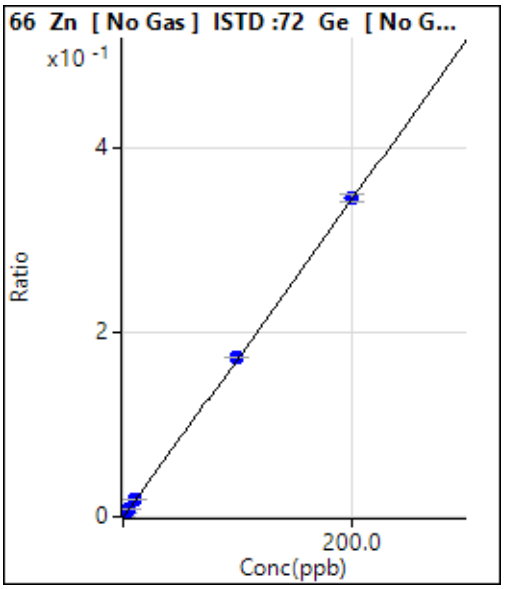
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6861.84	0.0118	P	3.4	
2	☐	2.000	2.551	25821.51	0.0447	P	1.7	27.5
3	☐	5.000	4.329	39300.42	0.0677	P	2.4	-13.4
4	☐	10.000	9.235	75479.14	0.1310	P	0.9	-7.7
5	☐	100.000	95.134	718234.18	1.2400	P	1.0	-4.9
6	☐	200.000	202.482	1472467.27	2.6260	A	1.4	1.2

y = 0.0129 * x + 0.0118
R = 0.9996
DL = 0.09304 ppb
BEC = 0.9132 ppb

Weight: <None>
Min Conc: <None>

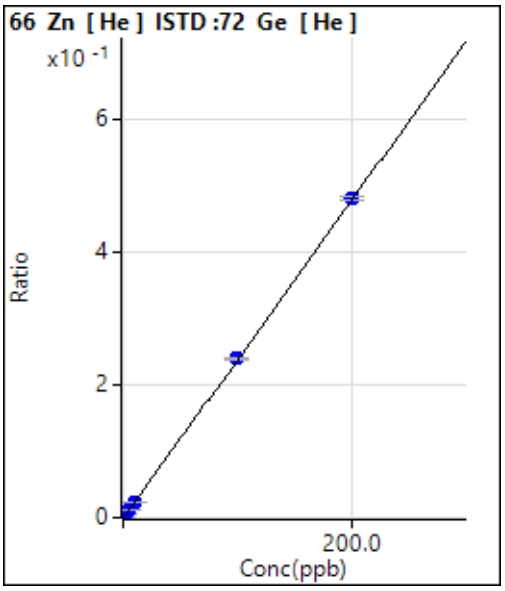


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1456.77	0.0007	P	3.7	
2	☐	2.000	2.240	9233.28	0.0046	P	4.3	12.0
3	☐	5.000	4.927	18499.58	0.0092	P	3.0	-1.5
4	☐	10.000	10.088	35987.93	0.0181	P	1.2	0.9
5	☐	100.000	99.652	342031.35	0.1722	P	0.6	-0.3
6	☐	200.000	200.169	669044.19	0.3451	P	2.1	0.1

y = 0.0017 * x + 7.3560E-004
R = 1.0000
DL = 0.04808 ppb
BEC = 0.4275 ppb

Weight: <None>
Min Conc: <None>

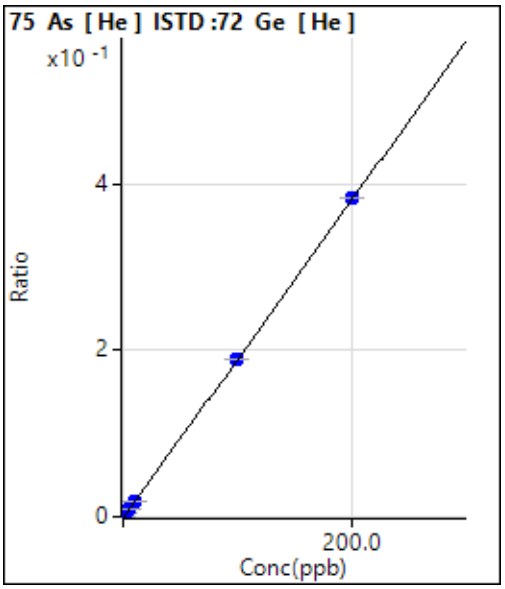
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	616.70	0.0011	P	10.4	
2	☐	2.000	2.245	3713.92	0.0064	P	9.4	12.3
3	☐	5.000	4.827	7318.76	0.0126	P	1.2	-3.5
4	☐	10.000	9.716	13997.43	0.0243	P	2.1	-2.8
5	☐	100.000	99.355	138228.69	0.2386	P	0.6	-0.6
6	☐	200.000	200.338	269231.52	0.4801	P	0.6	0.2

y = 0.0024 * x + 0.0011
R = 1.0000
DL = 0.1387 ppb
BEC = 0.4432 ppb

Weight: <None>
Min Conc: <None>

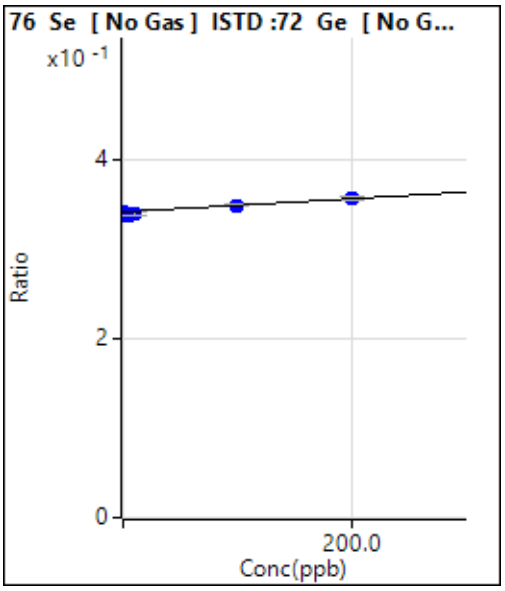


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	110.00	0.0002	P	5.6	
2	☐	2.000	2.018	2335.77	0.0040	P	3.1	0.9
3	☐	5.000	4.894	5540.05	0.0095	P	1.7	-2.1
4	☐	10.000	9.847	10948.93	0.0190	P	1.0	-1.5
5	☐	100.000	99.223	109929.17	0.1898	P	0.4	-0.8
6	☐	200.000	200.398	214826.36	0.3831	P	0.5	0.2

y = 0.0019 * x + 1.8901E-004
R = 1.0000
DL = 0.01666 ppb
BEC = 0.09891 ppb

Weight: <None>
Min Conc: <None>

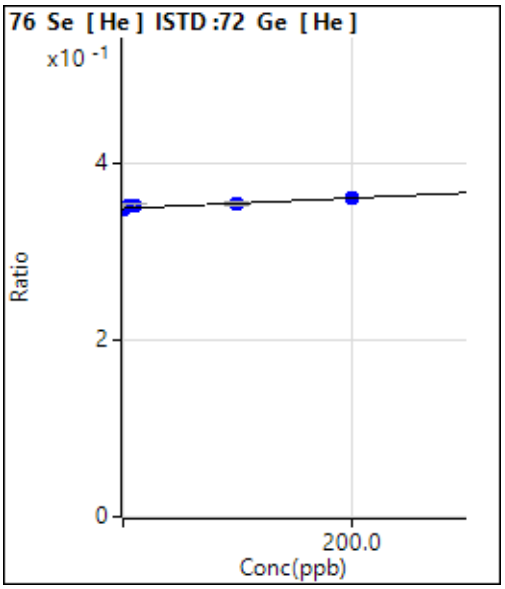
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	677131.66	0.3419	P	0.8	
2	☐	2.000	-69.016	677490.59	0.3368	P	0.2	-3550.
3	☐	5.000	-56.418	678057.10	0.3377	P	0.4	-1228.
4	☐	10.000	-32.369	675214.91	0.3395	P	1.2	-423.7
5	☐	100.000	98.795	693559.36	0.3492	P	0.6	-1.2
6	☐	200.000	204.967	692104.21	0.3570	P	1.3	2.5

y = 7.3863E-005 * x + 0.3419
R = 0.9706
DL = 108.5 ppb
BEC = 4629 ppb

Weight: <None>
Min Conc: <None>

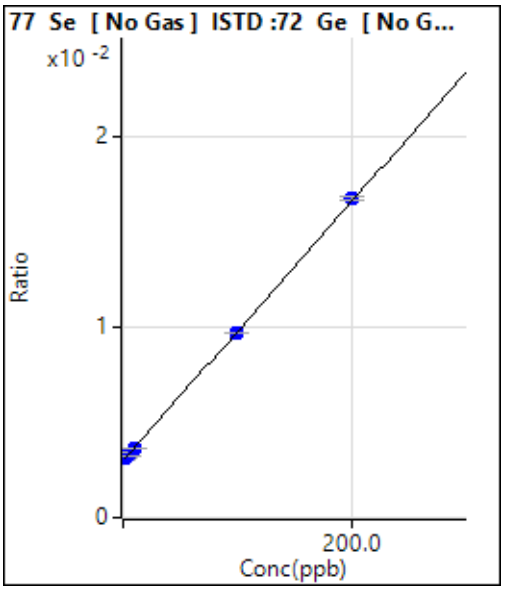


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	203128.65	0.3491	P	0.3	
2	☐	2.000	26.821	202442.39	0.3507	P	1.3	1241.1
3	☐	5.000	37.745	204015.07	0.3513	P	0.2	654.9
4	☐	10.000	55.696	203017.36	0.3524	P	1.3	457.0
5	☐	100.000	91.990	205385.41	0.3546	P	1.4	-8.0
6	☐	200.000	200.653	202454.87	0.3610	P	0.6	0.3

y = 5.9617E-005 * x + 0.3491
R = 0.9694
DL = 60.71 ppb
BEC = 5855 ppb

Weight: <None>
Min Conc: <None>

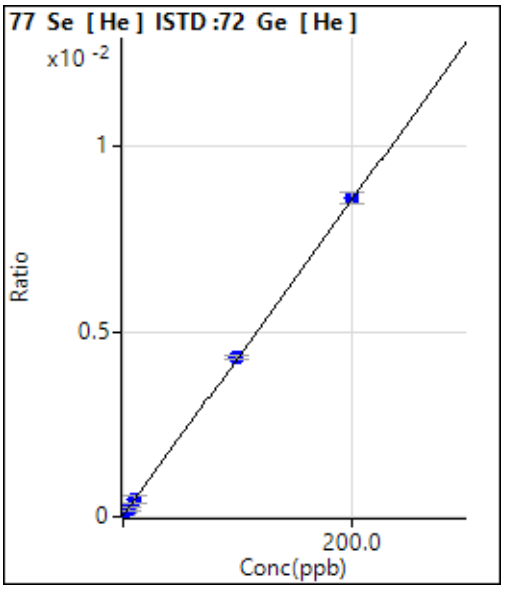
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6118.17	0.0031	P	2.2	
2	☐	2.000	1.304	6391.64	0.0032	P	5.8	-34.8
3	☐	5.000	3.983	6745.13	0.0034	P	5.8	-20.3
4	☐	10.000	8.191	7252.09	0.0036	P	1.3	-18.1
5	☐	100.000	97.460	19290.78	0.0097	P	0.2	-2.5
6	☐	200.000	201.393	32519.58	0.0168	P	1.2	0.7

y = 6.7955E-005 * x + 0.0031
R = 0.9999
DL = 2.964 ppb
BEC = 45.46 ppb

Weight: <None>
Min Conc: <None>

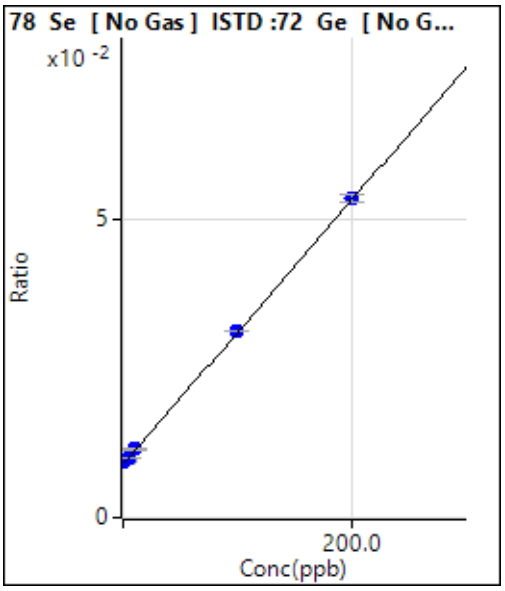


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	43.33	0.0001	P	27.2	
2	☐	2.000	1.764	86.67	0.0001	P	81.2	-11.8
3	☐	5.000	3.227	123.33	0.0002	P	30.2	-35.5
4	☐	10.000	9.238	270.01	0.0005	P	42.6	-7.6
5	☐	100.000	99.393	2496.94	0.0043	P	1.4	-0.6
6	☐	200.000	200.388	4830.95	0.0086	P	3.7	0.2

y = 4.2625E-005 * x + 7.4555E-005
R = 1.0000
DL = 1.425 ppb
BEC = 1.749 ppb

Weight: <None>
Min Conc: <None>

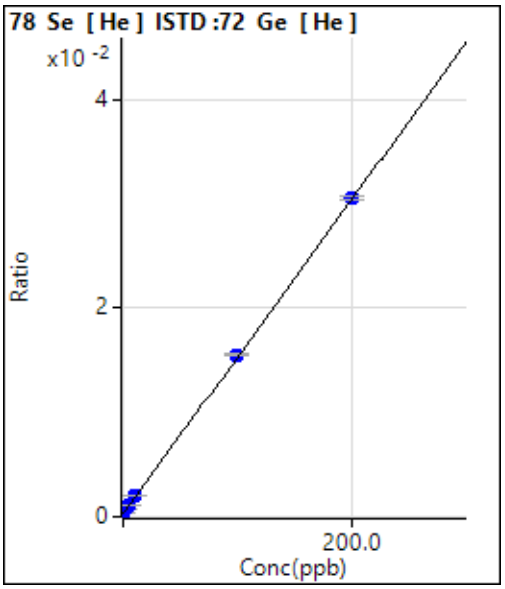
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	18252.60	0.0092	P	2.8	
2	☐	2.000	1.717	19304.10	0.0096	P	1.7	-14.2
3	☐	5.000	3.862	20222.07	0.0101	P	1.9	-22.8
4	☐	10.000	10.136	22803.00	0.0115	P	0.8	1.4
5	☐	100.000	99.768	62236.93	0.0313	P	0.4	-0.2
6	☐	200.000	200.140	103871.50	0.0536	P	1.9	0.1

y = 2.2169E-004 * x + 0.0092
R = 1.0000
DL = 3.488 ppb
BEC = 41.57 ppb

Weight: <None>
Min Conc: <None>

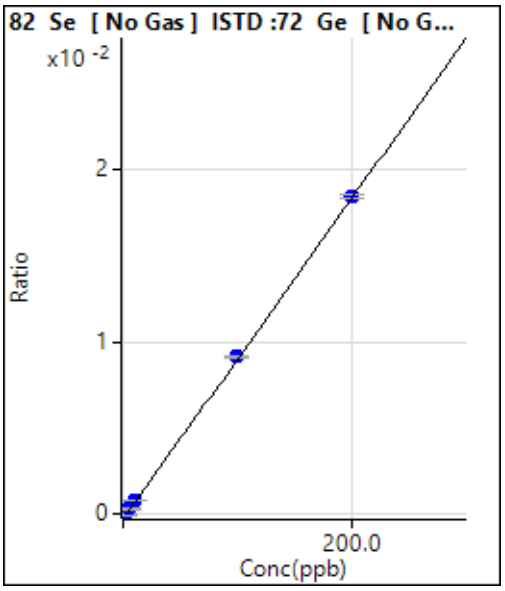


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	250.00	0.0004	P	10.1	
2	☐	2.000	1.857	409.34	0.0007	P	14.7	-7.2
3	☐	5.000	4.498	643.35	0.0011	P	7.0	-10.0
4	☐	10.000	10.581	1166.72	0.0020	P	5.5	5.8
5	☐	100.000	99.864	8969.00	0.0155	P	1.2	-0.1
6	☐	200.000	200.053	17153.57	0.0306	P	0.7	0.0

y = 1.5076E-004 * x + 4.2976E-004
R = 1.0000
DL = 0.8614 ppb
BEC = 2.851 ppb

Weight: <None>
Min Conc: <None>

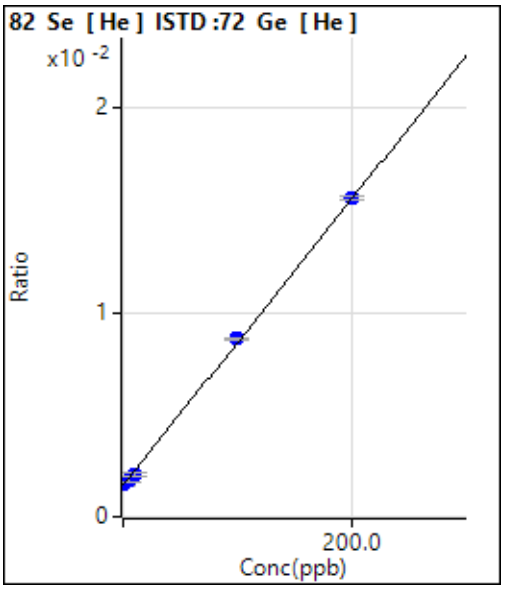
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-386.28	-0.0002	P	-100.	
2	☐	2.000	2.140	7.10	0.0000	P	2543.	7.0
3	☐	5.000	5.496	634.38	0.0003	P	41.0	9.9
4	☐	10.000	10.937	1634.76	0.0008	P	6.4	9.4
5	☐	100.000	100.212	18124.56	0.0091	P	1.5	0.2
6	☐	200.000	199.833	35652.31	0.0184	P	1.2	-0.1

y = 9.3008E-005 * x - 1.9555E-004
R = 1.0000
DL = 6.344 ppb
BEC = -2.102 ppb

Weight: <None>
Min Conc: <None>

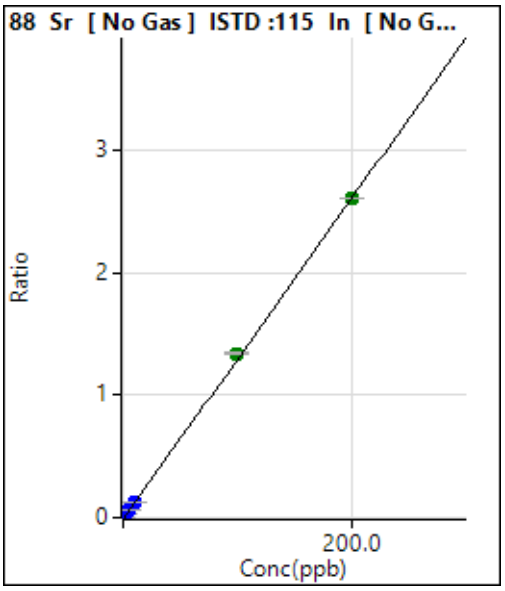


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	943.38	0.0016	P	9.7	
2	☐	2.000	1.494	996.72	0.0017	P	2.8	-25.3
3	☐	5.000	2.740	1053.39	0.0018	P	12.9	-45.2
4	☐	10.000	6.247	1186.74	0.0021	P	9.7	-37.5
5	☐	100.000	101.063	5041.02	0.0087	P	1.1	1.1
6	☐	200.000	199.718	8756.31	0.0156	P	1.3	-0.1

y = 7.0072E-005 * x + 0.0016
R = 0.9998
DL = 6.735 ppb
BEC = 23.14 ppb

Weight: <None>
Min Conc: <None>

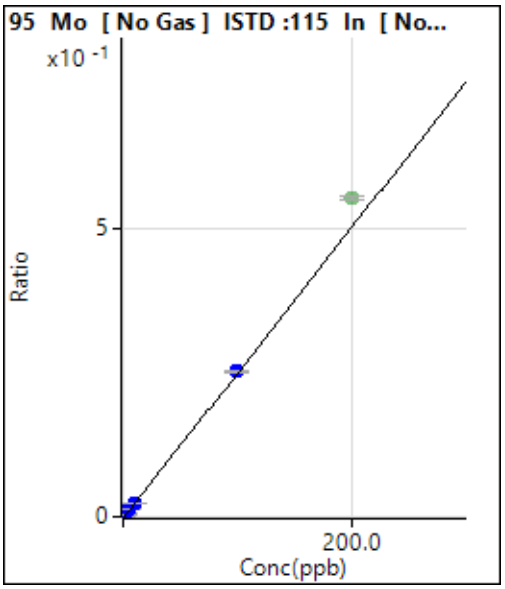
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1736.81	0.0008	P	2.5	
2	☐	2.000	1.892	54628.34	0.0256	P	2.8	-5.4
3	☐	5.000	4.693	135150.68	0.0622	P	0.6	-6.1
4	☐	10.000	9.399	266188.68	0.1238	P	1.5	-6.0
5	☐	100.000	102.019	2820017.87	1.3355	A	1.4	2.0
6	☐	200.000	199.029	5352717.42	2.6047	A	0.4	-0.5

y = 0.0131 * x + 8.0485E-004
R = 0.9999
DL = 0.004636 ppb
BEC = 0.06152 ppb

Weight: <None>
Min Conc: <None>

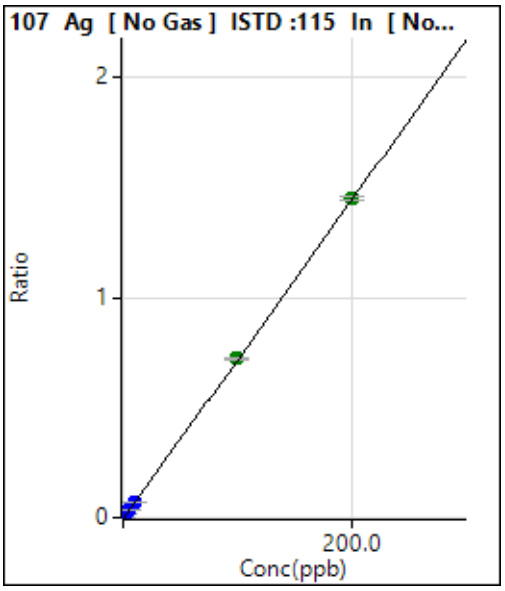


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	60.00	0.0000	P	33.5	
2	☐	2.000	1.950	10567.68	0.0049	P	2.7	-2.5
3	☐	5.000	4.787	26279.57	0.0121	P	2.6	-4.3
4	☐	10.000	9.774	53052.37	0.0247	P	1.1	-2.3
5	☐	100.000	100.034	532489.44	0.2522	P	0.7	0.0
6	☑	200.000		1135674.07	0.5526	A	1.0	

y = 0.0025 * x + 2.7822E-005
R = 1.0000
DL = 0.01109 ppb
BEC = 0.01104 ppb

Weight: <None>
Min Conc: <None>

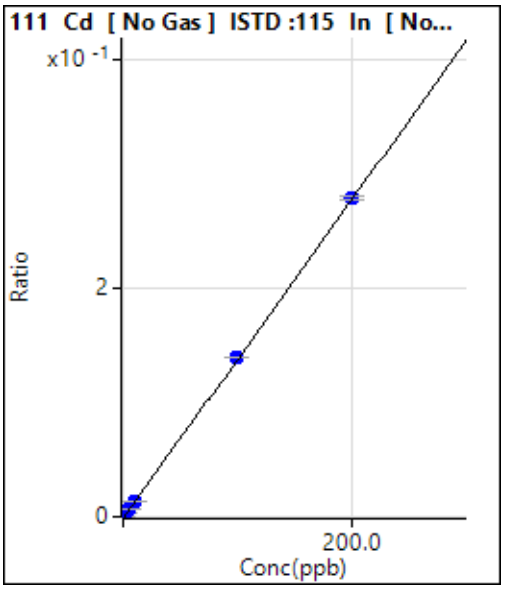
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	610.03	0.0003	P	6.4	
2	☐	2.000	1.821	28855.06	0.0135	P	2.2	-8.9
3	☐	5.000	4.451	70802.60	0.0326	P	1.4	-11.0
4	☐	10.000	9.215	144441.95	0.0672	P	1.5	-7.9
5	☐	100.000	99.836	1530508.94	0.7248	A	0.9	-0.2
6	☐	200.000	200.137	2985480.37	1.4528	A	1.5	0.1

y = 0.0073 * x + 2.8276E-004
R = 1.0000
DL = 0.007432 ppb
BEC = 0.03896 ppb

Weight: <None>
Min Conc: <None>

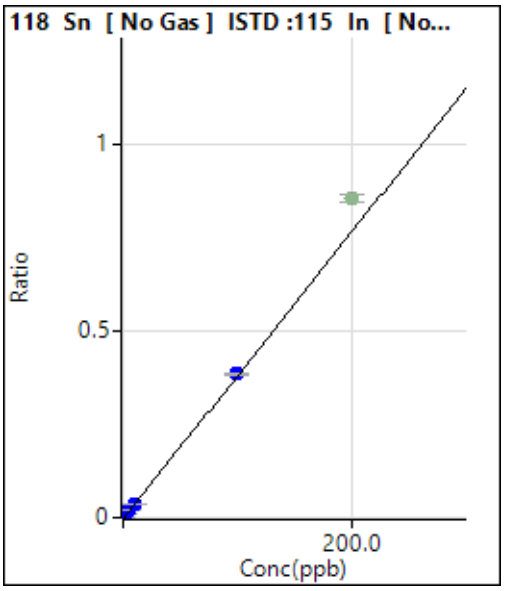


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20.00	0.0000	P	86.6	
2	☐	2.000	1.883	5634.61	0.0026	P	3.0	-5.8
3	☐	5.000	4.799	14564.94	0.0067	P	0.9	-4.0
4	☐	10.000	9.492	28494.47	0.0132	P	1.3	-5.1
5	☐	100.000	99.576	293302.83	0.1389	P	0.1	-0.4
6	☐	200.000	200.243	573988.20	0.2793	P	1.1	0.1

y = 0.0014 * x + 9.2706E-006
R = 1.0000
DL = 0.01728 ppb
BEC = 0.006646 ppb

Weight: <None>
Min Conc: <None>

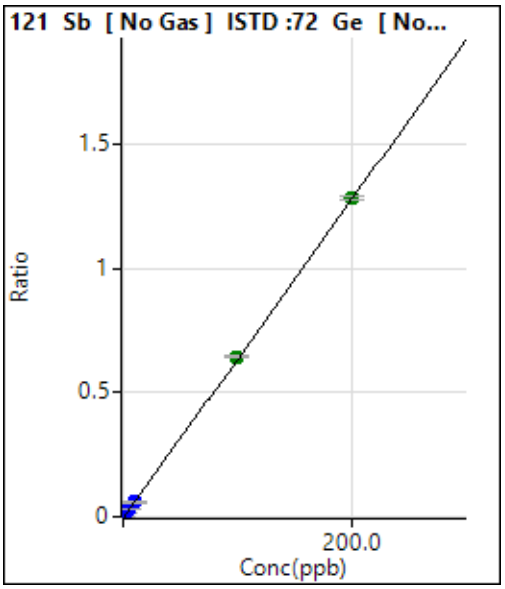
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2143.55	0.0010	P	12.7	
2	☐	2.000	1.878	17575.33	0.0082	P	2.8	-6.1
3	☐	5.000	4.722	41656.42	0.0192	P	2.8	-5.6
4	☐	10.000	9.627	81847.33	0.0381	P	1.3	-3.7
5	☐	100.000	100.054	815411.32	0.3862	P	1.0	0.1
6	☑	200.000		1761499.66	0.8572	A	2.2	

y = 0.0038 * x + 9.9375E-004
R = 1.0000
DL = 0.09835 ppb
BEC = 0.2581 ppb

Weight: <None>
Min Conc: <None>

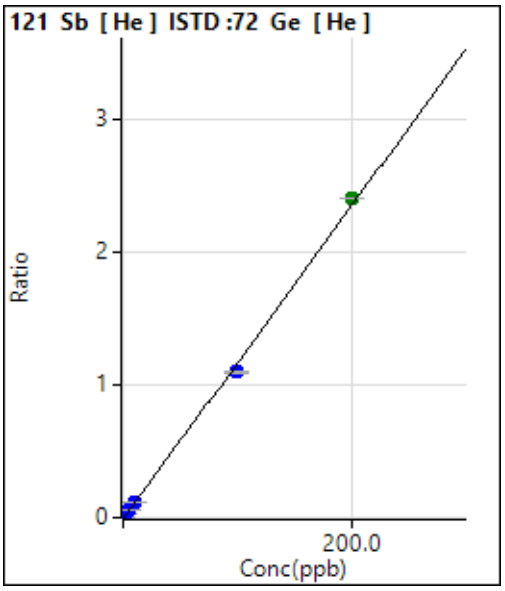


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	563.36	0.0003	P	3.1	
2	☐	2.000	1.836	24259.35	0.0121	P	1.7	-8.2
3	☐	5.000	4.500	58507.18	0.0291	P	0.5	-10.0
4	☐	10.000	9.120	116864.40	0.0588	P	2.8	-8.8
5	☐	100.000	100.117	1275799.85	0.6423	A	1.0	0.1
6	☐	200.000	200.000	2487047.67	1.2828	A	0.8	0.0

y = 0.0064 * x + 2.8439E-004
R = 1.0000
DL = 0.004138 ppb
BEC = 0.04435 ppb

Weight: <None>
Min Conc: <None>

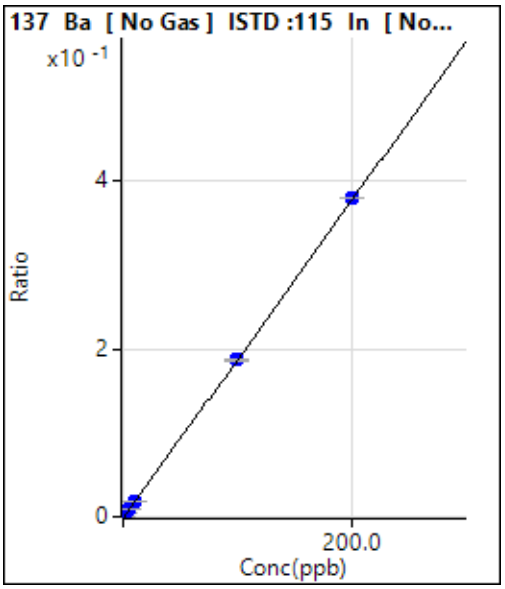
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	293.34	0.0005	P	20.1	
2	☐	2.000	1.850	12899.87	0.0223	P	1.8	-7.5
3	☐	5.000	4.592	31778.81	0.0547	P	0.8	-8.2
4	☐	10.000	9.349	63882.12	0.1109	P	0.8	-6.5
5	☐	100.000	92.693	634189.92	1.0949	P	0.2	-7.3
6	☐	200.000	203.698	1348871.23	2.4055	A	0.5	1.8

y = 0.0118 * x + 5.0462E-004
R = 0.9991
DL = 0.02574 ppb
BEC = 0.04274 ppb

Weight: <None>
Min Conc: <None>

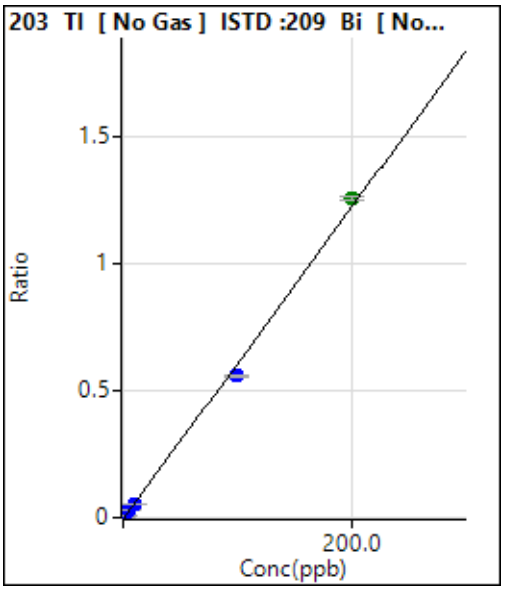


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	230.01	0.0001	P	8.9	
2	☐	2.000	1.860	7745.81	0.0036	P	2.1	-7.0
3	☐	5.000	4.808	19985.75	0.0092	P	1.9	-3.8
4	☐	10.000	9.666	39540.59	0.0184	P	0.9	-3.3
5	☐	100.000	98.710	394332.38	0.1868	P	1.9	-1.3
6	☐	200.000	200.668	780035.72	0.3796	P	0.3	0.3

y = 0.0019 * x + 1.0661E-004
R = 1.0000
DL = 0.01513 ppb
BEC = 0.05638 ppb

Weight: <None>
Min Conc: <None>

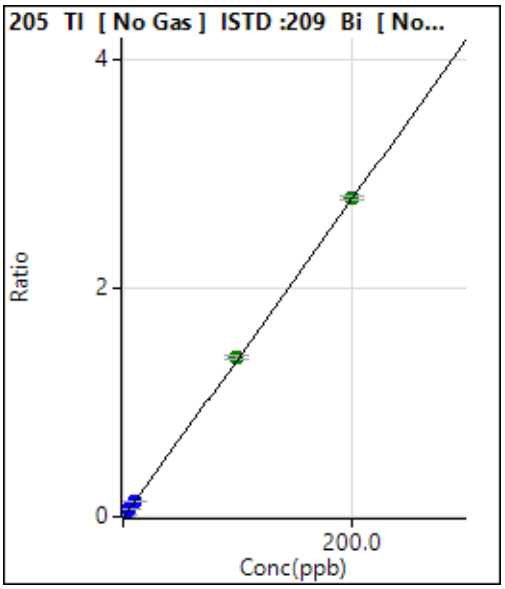
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	60.00	0.0000	P	28.6	
2	☐	2.000	1.718	17479.17	0.0106	P	2.8	-14.1
3	☐	5.000	4.362	44067.93	0.0269	P	1.7	-12.8
4	☐	10.000	8.816	88844.58	0.0543	P	2.4	-11.8
5	☐	100.000	90.768	891934.96	0.5587	P	2.2	-9.2
6	☐	200.000	204.694	1979808.83	1.2598	A	0.8	2.3

y = 0.0062 * x + 3.6229E-005
R = 0.9986
DL = 0.005058 ppb
BEC = 0.005887 ppb

Weight: <None>
Min Conc: <None>

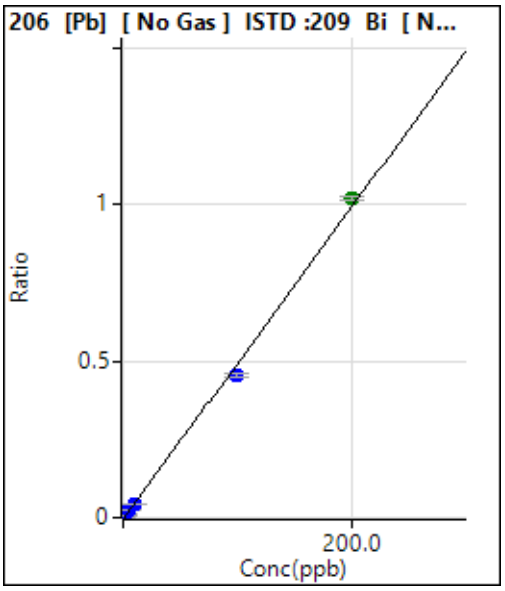


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	130.00	0.0001	P	47.9	
2	☐	2.000	1.753	40435.72	0.0245	P	2.9	-12.3
3	☐	5.000	4.530	103762.33	0.0633	P	1.3	-9.4
4	☐	10.000	9.157	209237.24	0.1279	P	0.4	-8.4
5	☐	100.000	100.070	2229834.81	1.3965	A	2.4	0.1
6	☐	200.000	200.021	4386457.44	2.7913	A	1.1	0.0

y = 0.0140 * x + 7.9019E-005
R = 1.0000
DL = 0.008144 ppb
BEC = 0.005663 ppb

Weight: <None>
Min Conc: <None>

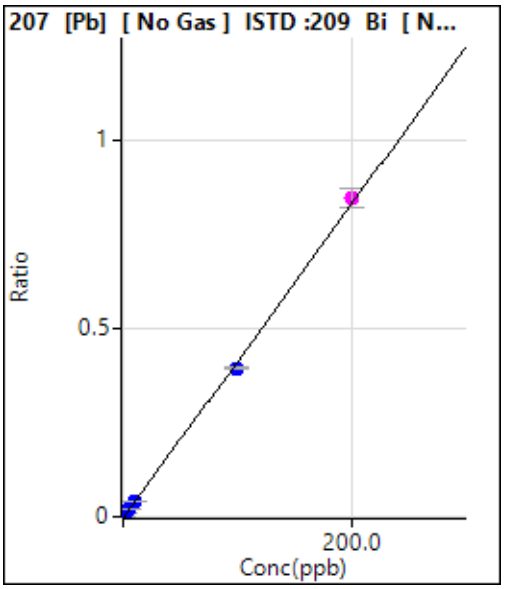
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	586.69	0.0004	P	8.1	
2	☐	2.000	1.754	14995.91	0.0091	P	3.7	-12.3
3	☐	5.000	4.439	36884.88	0.0225	P	1.2	-11.2
4	☐	10.000	8.830	72658.21	0.0444	P	1.5	-11.7
5	☐	100.000	90.937	724817.57	0.4540	P	2.2	-9.1
6	☐	200.000	204.606	1604352.17	1.0210	A	1.3	2.3

y = 0.0050 * x + 3.5454E-004
R = 0.9986
DL = 0.01725 ppb
BEC = 0.07107 ppb

Weight: <None>
Min Conc: <None>

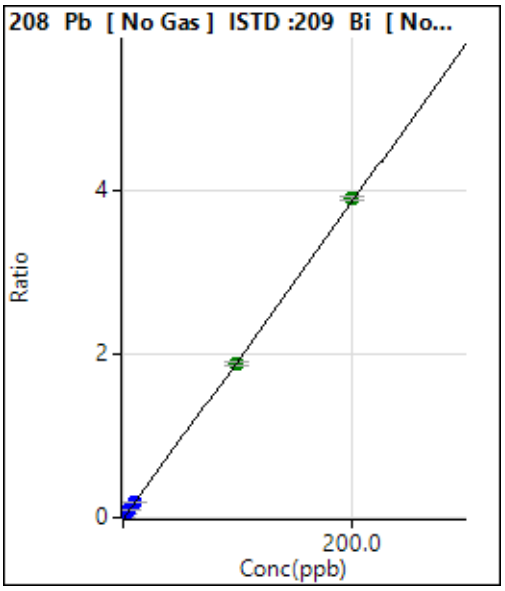


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	626.75	0.0004	P	38.7	
2	☐	2.000	1.782	12886.86	0.0078	P	1.1	-10.9
3	☐	5.000	4.570	31914.49	0.0195	P	0.6	-8.6
4	☐	10.000	9.189	63424.47	0.0388	P	0.6	-8.1
5	☐	100.000	94.440	630376.79	0.3948	P	1.6	-5.6
6	☐	200.000	202.834	1332308.68	0.8475	M	5.7	1.4

y = 0.0042 * x + 3.8026E-004
R = 0.9995
DL = 0.1056 ppb
BEC = 0.09105 ppb

Weight: <None>
Min Conc: <None>

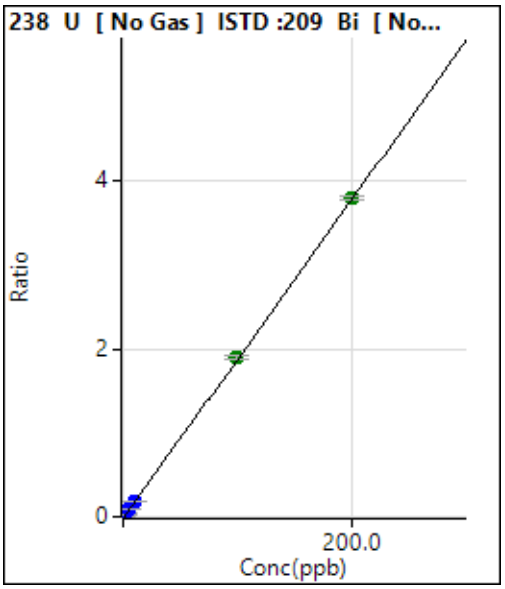
Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2460.20	0.0015	P	12.2	
2	☐	2.000	1.783	59506.61	0.0361	P	2.0	-10.9
3	☐	5.000	4.544	147162.11	0.0898	P	0.3	-9.1
4	☐	10.000	9.073	290896.58	0.1777	P	0.7	-9.3
5	☐	100.000	97.088	3013768.65	1.8876	A	1.9	-2.9
6	☐	200.000	201.516	6154404.76	3.9162	A	0.8	0.8

y = 0.0194 * x + 0.0015
R = 0.9999
DL = 0.02798 ppb
BEC = 0.07658 ppb

Weight: <None>
Min Conc: <None>

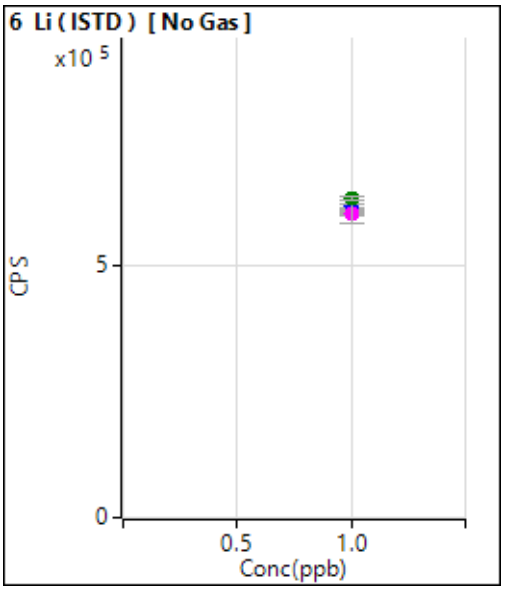


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	63.33	0.0000	P	41.4	
2	☐	2.000	1.817	56845.43	0.0345	P	2.7	-9.1
3	☐	5.000	4.578	142408.13	0.0869	P	1.7	-8.4
4	☐	10.000	9.180	284974.05	0.1741	P	0.5	-8.2
5	☐	100.000	99.869	3024134.96	1.8940	A	1.9	-0.1
6	☐	200.000	200.119	5963417.41	3.7952	A	1.2	0.1

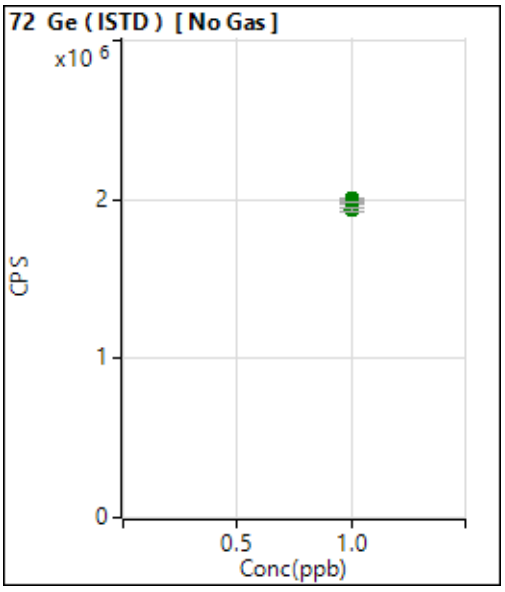
y = 0.0190 * x + 3.8401E-005
R = 1.0000
DL = 0.002517 ppb
BEC = 0.002025 ppb

Weight: <None>
Min Conc: <None>

Calibration for 016_ICV.d

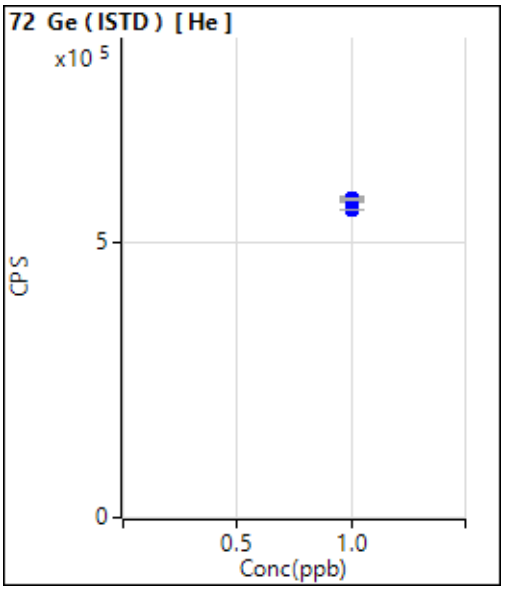


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		616359.01		P	1.1	
2	☐	1.000		604711.65		P	0.9	
3	☐	1.000		606817.16		P	0.7	
4	☐	1.000		601503.19		P	1.1	
5	☐	1.000		601739.69		M	6.3	
6	☐	1.000		633161.51		A	0.7	

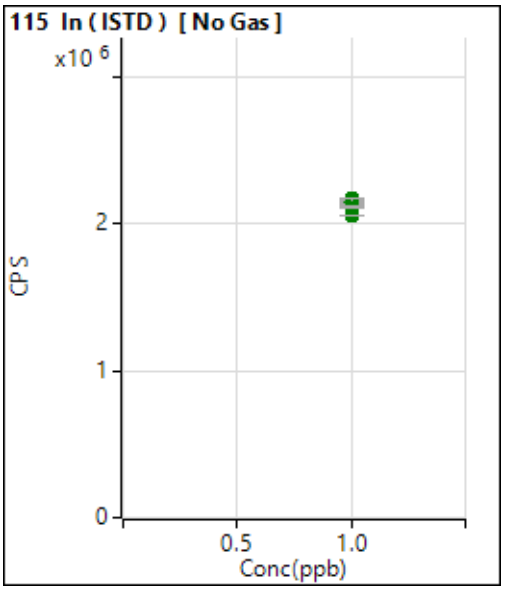


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1980659.66		A	0.6	
2	☐	1.000		2011657.63		A	0.4	
3	☐	1.000		2007762.05		A	0.4	
4	☐	1.000		1989155.44		A	1.5	
5	☐	1.000		1986258.25		A	0.1	
6	☐	1.000		1938826.59		A	1.6	

Calibration for 016_ICV.d

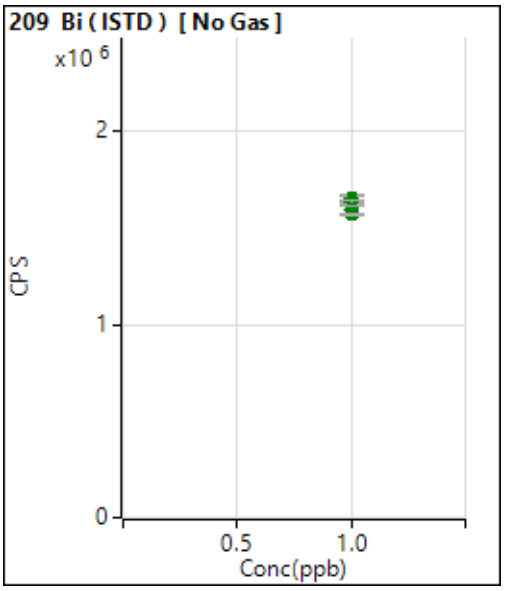


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		581897.99		P	0.8	
2	☐	1.000		577331.79		P	1.1	
3	☐	1.000		580696.08		P	0.8	
4	☐	1.000		576115.84		P	0.5	
5	☐	1.000		579218.40		P	0.8	
6	☐	1.000		560743.94		P	0.4	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2157827.72		A	0.5	
2	☐	1.000		2137332.46		A	0.1	
3	☐	1.000		2172812.40		A	0.5	
4	☐	1.000		2150961.29		A	1.4	
5	☐	1.000		2111613.01		A	0.9	
6	☐	1.000		2055076.06		A	0.6	

Calibration for 016_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1655793.52		A	2.0	
2	☐	1.000		1647952.27		A	1.9	
3	☐	1.000		1639468.36		A	1.2	
4	☐	1.000		1636499.66		A	0.7	
5	☐	1.000		1597174.66		A	2.6	
6	☐	1.000		1571435.60		A	1.1	

Sample Report

Sample Table

Sample Name	LLICV2
Data File Name	017LCV2.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T10:52:48-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	1.958	1.958	6.52	56958	0.00	2	
Be	9	1	No Gas	2.037	2.037	5.56	5501	0.04	2	
V	51	2	He	1.700	1.700	3.33	12336	0.01	2	
Cr	52	2	He	1.955	1.955	1.82	14284	0.01	2	
Fe	56	2	He	210.160	210.160	1.17	1313640	0.02	200	
Se	78	2	He	1.792	1.792	18.47	402	0.45	2	
As	75	2	He	1.978	1.978	2.22	2279	0.09	2	
Ca	44	2	He	199.012	199.012	6.00	7929	2.51	200	
Na	23	2	He	185.502	185.502	1.77	291951	0.06	200	
Mg	24	2	He	197.485	197.485	2.01	111547	0.18	200	
K	39	2	He	184.735	184.735	0.20	224921	0.08	200	
Mn	55	2	He	1.987	1.987	2.63	9187	0.02	2	
Co	59	2	He	1.851	1.851	2.73	20482	0.01	2	
Ni	60	2	He	2.293	2.293	2.68	7839	0.03	2	
Cu	63	2	He	2.593	2.593	2.93	25992	0.01	2	
Zn	66	2	He	2.286	2.286	1.38	3747	0.06	2	
Al	27	2	He	0.787	0.787	65.54	1473	0.05	2	NewName Main CR1 Failed
B	11	1	No Gas	28.069	28.069	9.68	50044	0.06	10	NewName Main CR1 Failed
Al	27	1	No Gas	0.942	0.942	1.80	59678	0.00	2	NewName Main CR1 Failed
Si	28	1	No Gas	15.190	15.190	8.01	620987	0.00	10	NewName Main CR1 Failed
Ag	107	1	No Gas	1.822	1.822	2.65	28344	0.01	2	
Cd	111	1	No Gas	1.965	1.965	1.79	5771	0.03	2	
Sr	88	1	No Gas	1.926	1.926	1.31	54578	0.00	2	
Mo	95	1	No Gas	1.788	1.788	1.79	10244	0.02	2	
Sn	118	1	No Gas	1.832	1.832	2.60	18206	0.01	2	
Sb	121	1	No Gas	1.847	1.847	2.18	23655	0.01	2	
Ba	137	1	No Gas	2.015	2.015	2.09	8219	0.02	2	
Tl	205	1	No Gas	1.877	1.877	1.99	42492	0.00	2	
Tl	203	1	No Gas	1.739	1.739	4.39	17356	0.01	2	
Pb	208	1	No Gas	1.844	1.844	0.67	60331	0.00	2	
U	238	1	No Gas	1.815	1.815	0.44	55744	0.00	2	
Ca	43	2	He	163.993	163.993	10.04	343	47.76	200	
Sb	121	2	He	1.823	1.823	2.57	12653	0.01	2	
Ti	47	2	He	1.740	1.740	12.26	367	0.47	200	
Cu	63	1	No Gas	2.584	2.584	1.21	43891	0.01	2	
Se	82	1	No Gas	2.345	2.345	31.92	45	5.24	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	629715	0.30	616359	102.17	70	120	
Ge	72	2	He	574253	1.18	581898	98.69	70	120	
Ge	72	1	No Gas	1950161	0.91	1980660	98.46	70	120	
In	115	1	No Gas	2098721	1.22	2157828	97.26	70	120	
Bi	209	1	No Gas	1617390	1.69	1655794	97.68	70	120	

Sample Report

Sample Table

Sample Name	LLICV5
Data File Name	018LCV5.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T10:54:41-05:00
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	4.853	4.853	2.03	83500	0.01	5	
Be	9	1	No Gas	5.084	5.084	1.56	13508	0.04	5	
V	51	2	He	4.377	4.377	0.87	29153	0.02	5	
Cr	52	2	He	4.795	4.795	2.98	33361	0.01	5	
Fe	56	2	He	514.769	514.769	1.10	3156601	0.02	500	
Se	78	2	He	4.870	4.870	20.03	660	0.74	5	
As	75	2	He	4.926	4.926	0.31	5446	0.09	5	
Ca	44	2	He	496.239	496.239	2.17	17695	2.80	500	
Na	23	2	He	468.349	468.349	0.68	580756	0.08	500	
Mg	24	2	He	498.759	498.759	0.64	277210	0.18	500	
K	39	2	He	465.092	465.092	0.66	417354	0.11	500	
Mn	55	2	He	4.997	4.997	0.50	22452	0.02	5	
Co	59	2	He	4.633	4.633	0.38	50443	0.01	5	
Ni	60	2	He	4.446	4.446	3.87	13350	0.03	5	
Cu	63	2	He	4.398	4.398	1.49	38889	0.01	5	
Zn	66	2	He	5.194	5.194	5.39	7646	0.07	5	
Al	27	2	He	3.782	3.782	14.89	2337	0.16	5	
B	11	1	No Gas	31.062	31.062	0.44	54049	0.06	25	
Al	27	1	No Gas	3.652	3.652	3.12	95833	0.00	5	
Si	28	1	No Gas	28.439	28.439	9.37	700063	0.00	25	
Ag	107	1	No Gas	4.542	4.542	2.67	70444	0.01	5	
Cd	111	1	No Gas	4.792	4.792	3.48	14185	0.03	5	
Sr	88	1	No Gas	4.705	4.705	0.91	132144	0.00	5	
Mo	95	1	No Gas	4.431	4.431	3.61	25541	0.02	5	
Sn	118	1	No Gas	4.533	4.533	3.66	42385	0.01	5	
Sb	121	1	No Gas	4.547	4.547	2.44	57888	0.01	5	
Ba	137	1	No Gas	4.863	4.863	2.14	19712	0.02	5	
Tl	205	1	No Gas	4.496	4.496	1.49	103501	0.00	5	
Tl	203	1	No Gas	4.320	4.320	1.79	43867	0.01	5	
Pb	208	1	No Gas	4.482	4.482	0.94	145917	0.00	5	
U	238	1	No Gas	4.569	4.569	2.73	142806	0.00	5	
Ca	43	2	He	481.250	481.250	4.09	963	49.95	500	
Sb	121	2	He	4.630	4.630	2.91	31294	0.01	5	
Ti	47	2	He	4.826	4.826	6.02	993	0.49	5	
Cu	63	1	No Gas	4.295	4.295	2.56	65957	0.01	5	
Se	82	1	No Gas	5.463	5.463	17.30	615	0.89	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	622325	0.78	616359	100.97	70	120	
Ge	72	2	He	567187	0.48	581898	97.47	70	120	
Ge	72	1	No Gas	1966653	1.67	1980660	99.29	70	120	

Sample Report

In	115	1	No Gas	2119071	1.08	2157828	98.20	70	120	
Bi	209	1	No Gas	1647719	1.01	1655794	99.51	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	019_ICB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T10:56:35-05:00
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	-0.048	-143.7	37259	1.7	0.5	
Be	9	1	No Gas	-0.006	-44.9	22	35.3	0.5	
V	51	2	He	-0.068	-16.4	984	6.7	2.5	
Cr	52	2	He	0.109	6.6	1603	2.6	2.5	
Fe	56	2	He	-0.384	-11.3	12696	1.8	100	
Se	78	2	He	-0.230	-99.2	225	8.4	1	
As	75	2	He	-0.001	-256.4	107	3.1	2.5	
Ca	44	2	He	-8.663	-32.6	947	10.6	100	
Na	23	2	He	1.274	152.1	98520	2.3	100	
Mg	24	2	He	-0.405	-34.6	470	16.6	100	
K	39	2	He	-3.310	-19.7	91750	0.4	100	
Mn	55	2	He	0.021	99.7	337	27.6	2.5	
Co	59	2	He	-0.004	-99.3	90	44.4	2.5	
Ni	60	2	He	-0.554	-0.3	333	1.7	2.5	
Cu	63	2	He	-0.477	-6.2	3217	7.4	1	
Zn	66	2	He	0.204	49.6	883	15.9	2.5	
Al	27	2	He	-2.953	-1.6	353	4.3	5	
B	11	1	No Gas	5.341	11.3	14524	6.5	0.5	ICB Main CR1 Failed
Al	27	1	No Gas	-2.553	-1.2	14225	3.5	5	
Si	28	1	No Gas	-8.769	-10.5	493259	0.5	10	
Ag	107	1	No Gas	-0.011	-62.0	420	24.9	2.5	
Cd	111	1	No Gas	-0.004	-45.2	7	86.6	1	
Sr	88	1	No Gas	-0.037	-10.9	677	15.8	2.5	
Mo	95	1	No Gas	-0.002	-52.0	47	12.4	2.5	
Sn	118	1	No Gas	0.007	161.8	2144	5.0	5	
Sb	121	1	No Gas	0.009	96.3	677	17.1	2.5	
Ba	137	1	No Gas	-0.031	-14.3	100	17.3	2.5	
Tl	205	1	No Gas	0.001	148.2	147	17.2	1	
Tl	203	1	No Gas	0.001	179.3	73	34.3	1	
Pb	208	1	No Gas	-0.008	-38.7	2163	3.8	2.5	
U	238	1	No Gas	-0.001	-62.0	30	66.7	2.5	
Ca	43	2	He	1.850	473.5	20	86.6	100	
Sb	121	2	He	0.011	98.8	363	20.7	2.5	
Ti	47	2	He	-0.016	-177.6	3	173.2	2.5	
Se	82	1	No Gas	0.695	232.2	-259	-114.5	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	619568	0.17	616359	100.52	70	120	
Ge	72	2	He	570492	0.62	581898	98.04	70	120	
Ge	72	1	No Gas	1969521	0.56	1980660	99.44	70	120	
In	115	1	No Gas	2093458	0.53	2157828	97.02	70	120	
Bi	209	1	No Gas	1635151	1.22	1655794	98.75	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	020ICSA.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T11:02:30-05:00
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	0.832	11.3	44865	2.7	0	ICSA Main CR1 Failed
Be	9	1	No Gas	-0.002	-184.6	32	36.5	0	ICSA Main CR1 Failed
V	51	2	He	-0.032	-38.2	1135	6.3	0	ICSA Main CR1 Failed
Cr	52	2	He	1.451	3.2	10044	3.1	0	ICSA Main CR1 Failed
Fe	56	2	He	98294.748	0.4	563491365	0.2	0	
Se	78	2	He	0.362	89.7	258	9.9	0	ICSA Main CR1 Failed
As	75	2	He	0.055	39.6	157	14.0	0	ICSA Main CR1 Failed
Ca	44	2	He	99787.560	1.2	3111581	0.6	0	
Na	23	2	He	99936.094	1.4	97124025	0.9	0	
Mg	24	2	He	99574.306	0.9	51856463	0.5	0	
K	39	2	He	99019.087	0.8	64849354	0.2	0	
Mn	55	2	He	0.322	6.6	1570	5.8	0	ICSA Main CR1 Failed
Co	59	2	He	0.095	9.5	1087	8.0	0	ICSA Main CR1 Failed
Ni	60	2	He	-0.160	-37.7	1273	11.2	0	ICSA Main CR1 Failed
Cu	63	2	He	-0.316	-2.0	4107	0.5	0	ICSA Main CR1 Failed
Zn	66	2	He	1.004	16.6	1843	11.1	0	ICSA Main CR1 Failed
Al	27	2	He	94490.714	1.3	26176220	0.8	0	
B	11	1	No Gas	4.294	8.9	12741	4.1	0	
Al	27	1	No Gas	92253.805	1.7	1124354570	0.9	0	
Si	28	1	No Gas	23.787	7.2	624529	1.0	0	
Ag	107	1	No Gas	0.009	67.9	673	12.5	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	0.728	5.6	1974	6.0	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	0.856	0.8	23107	1.4	0	ICSA Main CR1 Failed
Mo	95	1	No Gas	1947.557	2.4	10175553	2.2	0	
Sn	118	1	No Gas	0.144	11.2	3077	3.8	0	ICSA Main CR1 Failed
Sb	121	1	No Gas	0.171	20.6	2517	14.8	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	0.368	9.4	1547	8.2	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	0.002	79.9	157	19.5	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	0.002	84.9	73	20.8	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.049	5.1	3700	1.4	0	ICSA Main CR1 Failed
U	238	1	No Gas	0.018	13.2	567	12.5	0	ICSA Main CR1 Failed
Ca	43	2	He	93611.554	0.6	173057	0.1	0	
Sb	121	2	He	0.145	7.4	1183	5.8	0	ICSA Main CR1 Failed
Ti	47	2	He	2012.863	0.2	386711	0.4	0	
Se	82	1	No Gas	1.915	145.0	-39	-1220.9	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	610830	0.72	616359	99.10	70	120	
Ge	72	2	He	532782	0.55	581898	91.56	70	120	
Ge	72	1	No Gas	1821980	2.30	1980660	91.99	70	120	
In	115	1	No Gas	1925169	0.62	2157828	89.22	70	120	
Bi	209	1	No Gas	1517668	0.79	1655794	91.66	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	021ICSB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T11:04:25-05:00
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	104.769	0.458	955068	0.49	100	104.8	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	100.085	0.810	247647	0.26	100	100.1	80	120	
V	51	2	He	85.723	0.979	514424	0.27	100	85.7	80	120	
Cr	52	2	He	91.958	1.197	589341	0.08	100	92.0	80	120	
Fe	56	2	He	105178.891	0.892	606060684	0.55	100	105178.9	80	120	ICSB Main CR1 Failed
Se	78	2	He	94.851	2.026	7889	2.63	100	94.9	80	120	
As	75	2	He	96.278	1.460	98616	0.44	100	96.3	80	120	
Ca	44	2	He	106447.780	0.852	3336370	0.40	100	106447.8	80	120	ICSB Main CR1 Failed
Na	23	2	He	106405.484	0.330	103946735	1.03	100	106405.5	80	120	ICSB Main CR1 Failed
Mg	24	2	He	106293.844	0.761	55642919	0.75	100	106293.8	80	120	ICSB Main CR1 Failed
K	39	2	He	104975.055	0.507	69102684	1.01	100	104975.1	80	120	ICSB Main CR1 Failed
Mn	55	2	He	95.221	0.873	399882	0.62	100	95.2	80	120	
Co	59	2	He	86.581	1.151	887836	0.24	100	86.6	80	120	
Ni	60	2	He	93.354	0.916	231183	1.29	100	93.4	80	120	
Cu	63	2	He	87.539	1.302	611548	0.91	100	87.5	80	120	
Zn	66	2	He	96.121	0.779	123659	0.46	100	96.1	80	120	
Al	27	2	He	92133.957	0.658	25656138	0.65	100	92134.0	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	472.658	1.943	682979	1.52	100	472.7	80	120	
Al	27	1	No Gas	87944.356	1.186	1072799557	0.64	100	87944.4	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	510.512	2.121	3143322	1.19	100	510.5	80	120	
Ag	107	1	No Gas	91.666	1.919	1275452	0.93	100	91.7	80	120	
Cd	111	1	No Gas	94.330	1.384	252176	0.72	100	94.3	80	120	
Sr	88	1	No Gas	99.509	0.343	2497003	2.13	100	99.5	80	120	
Mo	95	1	No Gas	2010.032	0.816	10455744	1.13	100	2010.0	80	120	ICSB Main CR1 Failed
Sn	118	1	No Gas	88.993	1.177	717210	0.73	100	89.0	80	120	
Sb	121	1	No Gas	88.476	1.671	1034951	1.31	100	88.5	80	120	
Ba	137	1	No Gas	97.818	1.064	354712	0.77	100	97.8	80	120	
Tl	205	1	No Gas	95.958	2.378	1998761	1.42	100	96.0	80	120	
Tl	203	1	No Gas	85.722	1.714	787520	0.80	100	85.7	80	120	
Pb	208	1	No Gas	91.774	1.203	2663587	1.31	100	91.8	80	120	
U	238	1	No Gas	99.221	1.097	2808912	0.82	100	99.2	80	120	
Ca	43	2	He	101218.915	1.647	188085	1.53	100	101218.9	80	120	ICSB Main CR1 Failed
Sb	121	2	He	88.851	0.312	562080	0.97	100	88.9	80	120	
Ti	47	2	He	2056.166	1.307	397058	0.96	100	2056.2	80	120	ICSB Main CR1 Failed
Cu	63	1	No Gas	86.687	0.871	1030397	0.82	100	86.7	80	120	
Se	82	1	No Gas	95.526	0.676	15843	1.14	100	95.5	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	581081	0.80	616359	94.28	70	120	
Ge	72	2	He	535556	1.23	581898	92.04	70	120	
Ge	72	1	No Gas	1823265	0.62	1980660	92.05	70	120	
In	115	1	No Gas	1916781	1.82	2157828	88.83	70	120	
Bi	209	1	No Gas	1492814	1.05	1655794	90.16	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	035_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T11:42:35-05:00
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	109.504	2.112	1048682	2.37	100	109.5	90	110	
Be	9	1	No Gas	109.542	0.305	273873	0.50	100	109.5	90	110	
V	51	2	He	103.956	0.587	559362	0.17	100	104.0	90	110	
Cr	52	2	He	100.458	0.868	645581	0.63	100	100.5	90	110	
Fe	56	2	He	10359.161	0.422	59873374	0.33	10000	103.6	90	110	
Se	78	2	He	105.669	0.976	8787	1.68	100	105.7	90	110	
As	75	2	He	106.381	1.034	109267	0.95	100	106.4	90	110	
Ca	44	2	He	10310.307	0.808	325120	0.73	10000	103.1	90	110	
Na	23	2	He	10488.254	0.994	10356646	0.38	10000	104.9	90	110	
Mg	24	2	He	10515.777	0.891	5521149	1.40	10000	105.2	90	110	
K	39	2	He	10180.546	0.634	6800392	0.86	10000	101.8	90	110	
Mn	55	2	He	104.368	0.462	439528	0.98	100	104.4	90	110	
Co	59	2	He	104.003	0.509	993995	0.24	100	104.0	90	110	
Ni	60	2	He	105.195	1.293	261017	1.12	100	105.2	90	110	
Cu	63	2	He	100.342	1.199	702042	0.60	100	100.3	90	110	
Zn	66	2	He	106.303	1.651	137077	0.96	100	106.3	90	110	
Al	27	2	He	99.964	0.415	29071	0.35	100	100.0	90	110	
B	11	1	No Gas	536.014	2.386	781803	2.24	500	107.2	90	110	
Al	27	1	No Gas	102.197	2.919	1294260	1.57	100	102.2	90	110	
Si	28	1	No Gas	562.619	0.828	3422620	1.36	5000	11.3	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	105.107	1.098	1509198	1.78	100	105.1	90	110	
Cd	111	1	No Gas	103.711	0.766	286096	0.92	100	103.7	90	110	
Sr	88	1	No Gas	105.506	0.330	2731320	0.55	100	105.5	90	110	
Mo	95	1	No Gas	103.597	0.736	516473	0.47	100	103.6	90	110	
Sn	118	1	No Gas	105.042	0.935	801668	0.25	100	105.0	90	110	
Sb	121	1	No Gas	108.770	1.918	1275623	0.79	100	108.8	90	110	
Ba	137	1	No Gas	103.999	1.037	389121	0.62	100	104.0	90	110	
Tl	205	1	No Gas	107.609	0.536	2345086	1.56	100	107.6	90	110	
Tl	203	1	No Gas	95.246	0.612	915375	0.62	100	95.2	90	110	
Pb	208	1	No Gas	100.377	1.251	3047213	1.43	100	100.4	90	110	
U	238	1	No Gas	103.292	1.180	3058743	0.45	100	103.3	90	110	
Ca	43	2	He	10281.849	0.937	19174	0.84	10000	102.8	90	110	
Sb	121	2	He	100.219	0.179	635738	0.65	100	100.2	90	110	
Ti	47	2	He	103.012	0.535	19955	0.64	100	103.0	90	110	
Cu	63	1	No Gas	107.111	1.465	1274150	1.57	100	107.1	90	110	
Se	82	1	No Gas	101.318	1.520	16870	1.23	100	101.3	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	587126	0.57	616359	95.26	70	120	
Ge	72	2	He	537048	0.75	581898	92.29	70	120	
Ge	72	1	No Gas	1828332	1.23	1980660	92.31	70	120	
In	115	1	No Gas	1977652	0.82	2157828	91.65	70	120	
Bi	209	1	No Gas	1561565	1.22	1655794	94.31	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	036_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T11:44:23-05:00
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	0.197	9.0	37725	1.2	0.5	
Be	9	1	No Gas	-0.002	-108.8	32	18.2	0.5	
V	51	2	He	0.199	2.5	2298	1.1	2.5	
Cr	52	2	He	0.008	132.6	823	7.8	2.5	
Fe	56	2	He	-0.368	-10.5	11535	1.9	100	
Se	78	2	He	0.056	247.0	225	4.5	2	
As	75	2	He	0.049	48.2	146	16.2	2.5	
Ca	44	2	He	-7.543	-33.6	887	8.3	100	
Na	23	2	He	13.686	13.1	100450	1.8	100	
Mg	24	2	He	1.046	8.0	1153	3.6	100	
K	39	2	He	6.922	27.1	89177	1.3	100	
Mn	55	2	He	0.026	62.7	323	20.6	2.5	
Co	59	2	He	-0.004	-136.1	83	56.7	2.5	
Ni	60	2	He	-0.639	-1.1	100	17.3	2.5	
Cu	63	2	He	-0.345	-6.4	3774	3.6	2	
Zn	66	2	He	-0.132	-36.6	383	15.7	2.5	
Al	27	2	He	-2.311	-4.5	490	5.4	5	
B	11	1	No Gas	12.102	17.1	23647	12.5	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-1.481	-24.6	25662	17.9	5	
Si	28	1	No Gas	1.640	79.7	498667	0.4	10	
Ag	107	1	No Gas	0.035	16.1	1040	7.6	2.5	
Cd	111	1	No Gas	0.007	62.0	37	31.5	1	
Sr	88	1	No Gas	-0.002	-601.5	1510	22.3	2.5	
Mo	95	1	No Gas	0.005	193.5	80	62.5	2.5	
Sn	118	1	No Gas	-0.029	-37.4	1717	4.7	5	
Sb	121	1	No Gas	0.083	15.5	1460	11.0	2.5	
Ba	137	1	No Gas	-0.008	-104.0	177	18.2	2.5	
Tl	205	1	No Gas	0.031	30.1	800	26.3	1	
Tl	203	1	No Gas	0.035	53.0	400	46.3	1	
Pb	208	1	No Gas	-0.013	-40.4	1937	8.0	2.5	
U	238	1	No Gas	0.003	90.5	150	52.9	2.5	
Ca	43	2	He	10.434	82.5	33	45.8	100	
Sb	121	2	He	0.068	18.0	673	11.3	2.5	
Ti	47	2	He	-0.014	-224.0	3	173.2	2.5	
Cu	63	1	No Gas	-0.317	-11.1	6748	6.8	2.5	
Se	82	1	No Gas	-0.264	-1297.1	-389	-144.3	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	589687	0.85	616359	95.67	70	120	
Ge	72	2	He	514315	0.27	581898	88.39	70	120	
Ge	72	1	No Gas	1781135	0.97	1980660	89.93	70	120	
In	115	1	No Gas	1946221	0.06	2157828	90.19	70	120	
Bi	209	1	No Gas	1577201	1.15	1655794	95.25	70	120	

Sample Report

Sample Table

Sample Name	HS22080927-10
Data File Name	040SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T12:03:11-05:00
Sample Type	Sample
Dilution	20
Comment	DOD TW 182759
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	2.912	58.235	3.03	67265	0.00	2000	
Be	9	1	No Gas	0.035	0.701	21.60	133	0.03	2000	
V	51	2	He	0.092	1.833	9.60	1862	0.00	2000	
Cr	52	2	He	8.106	162.113	1.15	53889	0.02	2000	
Fe	56	2	He	6524.734	130494.683	0.63	38469898	0.02	200000	
Se	78	2	He	-0.074	-1.478	-199.46	229	-0.03	2000	
As	75	2	He	0.360	7.197	12.88	480	0.07	2000	
Ca	44	2	He	3150.899	63017.974	0.99	102161	3.08	200000	
Na	23	2	He	8379.720	167594.405	0.91	8458366	0.10	200000	
Mg	24	2	He	2136.303	42726.059	0.43	1144512	0.19	200000	
K	39	2	He	171.279	3425.579	1.43	205484	0.08	200000	
Mn	55	2	He	119.630	2392.594	0.83	513791	0.02	2000	
Co	59	2	He	0.008	0.152	82.40	200	0.00	2000	
Ni	60	2	He	-0.199	-3.974	-22.60	1213	-0.02	2000	
Cu	63	2	He	-0.130	-2.605	-31.23	5538	0.00	2000	
Zn	66	2	He	0.455	9.105	4.70	1177	0.04	2000	
Al	27	2	He	8.098	161.969	14.27	3488	0.23	2000	
B	11	1	No Gas	1.550	30.991	16.33	8883	0.02	2000	
Al	27	1	No Gas	8.106	162.112	40.72	148811	0.01	2000	
Si	28	1	No Gas	1150.275	23005.497	2.42	6703778	0.02	2000	
Ag	107	1	No Gas	0.007	0.143	111.69	693	0.00	2000	
Cd	111	1	No Gas	0.006	0.121	119.65	37	0.02	2000	
Sr	88	1	No Gas	74.937	1498.741	2.68	2027854	0.00	2000	
Mo	95	1	No Gas	0.439	8.790	5.19	2347	0.02	2000	
Sn	118	1	No Gas	-0.105	-2.094	-16.18	1223	-0.01	2000	
Sb	121	1	No Gas	0.272	5.442	10.32	3841	0.01	2000	
Ba	137	1	No Gas	71.067	1421.346	1.14	278031	0.03	2000	
Tl	205	1	No Gas	0.000	-0.003	-297.95	130	0.00	2000	
Tl	203	1	No Gas	0.001	0.030	206.51	77	0.00	2000	
Pb	208	1	No Gas	0.045	0.892	12.88	3970	0.00	2000	
U	238	1	No Gas	0.009	0.187	22.44	363	0.00	2000	
Ca	43	2	He	3249.368	64987.356	2.32	6192	52.48	200000	
Sb	121	2	He	0.223	4.454	16.68	1717	0.01	2000	
Ti	47	2	He	0.222	4.431	23.55	50	0.44	2000	
Cu	63	1	No Gas	-0.065	-1.291	-18.28	10264	0.00	2000	
Zn	66	1	No Gas	0.512	10.232	0.85	3060	0.02	2000	
Se	82	1	No Gas	-1.080	-21.610	-159.60	-563	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	630247	1.24	616359	102.25	70	120	
Ge	72	2	He	547749	0.63	581898	94.13	70	120	
Ge	72	1	No Gas	1893979	1.28	1980660	95.62	70	120	
In	115	1	No Gas	2067599	2.35	2157828	95.82	70	120	

Sample Report

Bi	209	1	No Gas	1686469	0.22	1655794	101.85	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	047_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T12:16:26-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	99.233	7.677	989261	2.98	100	99.2	90	110	
Be	9	1	No Gas	100.786	3.680	261675	0.79	100	100.8	90	110	
V	51	2	He	100.421	0.202	542283	0.22	100	100.4	90	110	
Cr	52	2	He	96.857	0.425	624653	0.36	100	96.9	90	110	
Fe	56	2	He	10000.554	0.103	58003942	0.35	10000	100.0	90	110	
Se	78	2	He	97.750	0.377	8174	0.77	100	97.8	90	110	
As	75	2	He	98.980	1.482	102034	1.90	100	99.0	90	110	
Ca	44	2	He	9868.935	0.822	312352	1.24	10000	98.7	90	110	
Na	23	2	He	10069.207	0.794	9981582	0.72	10000	100.7	90	110	
Mg	24	2	He	10055.900	0.646	5297963	0.41	10000	100.6	90	110	
K	39	2	He	9802.079	0.252	6573781	0.51	10000	98.0	90	110	
Mn	55	2	He	100.151	0.111	423245	0.31	100	100.2	90	110	
Co	59	2	He	99.945	0.529	958568	0.36	100	99.9	90	110	
Ni	60	2	He	101.260	0.850	252199	0.76	100	101.3	90	110	
Cu	63	2	He	96.069	0.318	674792	0.21	100	96.1	90	110	
Zn	66	2	He	100.075	1.852	129544	2.19	100	100.1	90	110	
Al	27	2	He	101.174	0.407	29512	0.39	100	101.2	90	110	
B	11	1	No Gas	442.530	1.934	671738	2.55	500	88.5	90	110	CCV Main CR1-2 Failed
Al	27	1	No Gas	103.002	2.034	1300499	1.30	100	103.0	90	110	
Si	28	1	No Gas	518.163	1.903	3182554	1.36	5000	10.4	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	99.700	0.198	1449163	0.94	100	99.7	90	110	
Cd	111	1	No Gas	98.777	0.494	275850	1.19	100	98.8	90	110	
Sr	88	1	No Gas	101.171	1.017	2651290	0.28	100	101.2	90	110	
Mo	95	1	No Gas	99.397	0.513	501654	1.02	100	99.4	90	110	
Sn	118	1	No Gas	99.960	1.212	772375	0.94	100	100.0	90	110	
Sb	121	1	No Gas	101.034	1.661	1181735	2.30	100	101.0	90	110	
Ba	137	1	No Gas	100.111	2.083	379191	1.85	100	100.1	90	110	
Tl	205	1	No Gas	100.820	0.320	2252010	1.17	100	100.8	90	110	
Tl	203	1	No Gas	89.857	1.015	885254	1.87	100	89.9	90	110	CCV Main CR1-2 Failed
Pb	208	1	No Gas	96.927	0.835	3016209	1.33	100	96.9	90	110	
U	238	1	No Gas	100.811	0.801	3060093	1.13	100	100.8	90	110	
Ca	43	2	He	9799.229	1.574	18339	1.94	10000	98.0	90	110	
Sb	121	2	He	94.921	1.316	604235	1.10	100	94.9	90	110	
Ti	47	2	He	100.789	3.537	19591	3.17	100	100.8	90	110	
Cu	63	1	No Gas	102.038	2.596	1210708	2.09	100	102.0	90	110	
Se	82	1	No Gas	97.458	5.833	16163	5.27	100	97.5	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	610352	4.34	616359	99.03	70	120	
Ge	72	2	He	538922	0.42	581898	92.61	70	120	
Ge	72	1	No Gas	1823007	0.71	1980660	92.04	70	120	
In	115	1	No Gas	2001989	0.79	2157828	92.78	70	120	
Bi	209	1	No Gas	1600572	0.86	1655794	96.66	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	048_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T12:18:15-05:00
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	58.0	37824	0.4	0.5	
Be	9	1	No Gas	-0.003	-121.2	30	33.3	0.5	
V	51	2	He	-0.015	-46.6	1268	2.4	2.5	
Cr	52	2	He	-0.001	-1380.2	810	10.8	2.5	
Fe	56	2	He	-0.520	-20.6	11278	5.7	100	
Se	78	2	He	0.362	88.5	263	9.9	2	
As	75	2	He	0.012	164.2	116	19.2	2.5	
Ca	44	2	He	-12.752	-10.1	770	5.7	100	
Na	23	2	He	4.500	44.1	96848	1.9	100	
Mg	24	2	He	0.322	85.5	833	18.4	100	
K	39	2	He	-5.784	-13.7	85584	0.9	100	
Mn	55	2	He	-0.002	-978.1	220	47.2	2.5	
Co	59	2	He	-0.004	-128.1	90	48.4	2.5	
Ni	60	2	He	-0.629	-4.4	130	53.8	2.5	
Cu	63	2	He	-0.446	-9.6	3274	8.8	2	
Zn	66	2	He	-0.137	-38.6	397	16.8	2.5	
Al	27	2	He	-2.051	-14.4	590	13.9	5	
B	11	1	No Gas	10.342	19.3	21906	14.2	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-1.787	-3.1	23136	1.5	5	
Si	28	1	No Gas	-10.282	-10.4	461318	0.3	10	
Ag	107	1	No Gas	0.001	130.9	597	4.2	2.5	
Cd	111	1	No Gas	-0.002	-271.6	13	114.6	1	
Sr	88	1	No Gas	-0.025	-1.8	987	1.5	2.5	
Mo	95	1	No Gas	0.004	76.3	77	19.9	2.5	
Sn	118	1	No Gas	-0.044	-13.3	1690	2.1	5	
Sb	121	1	No Gas	0.260	3.0	3664	3.0	2.5	
Ba	137	1	No Gas	-0.026	-19.8	117	17.8	2.5	
Tl	205	1	No Gas	0.017	36.2	510	26.5	1	
Tl	203	1	No Gas	0.014	54.2	203	38.2	1	
Pb	208	1	No Gas	-0.035	-11.3	1320	9.1	2.5	
U	238	1	No Gas	0.002	66.5	130	33.5	2.5	
Ca	43	2	He	0.548	1471.5	17	91.7	100	
Sb	121	2	He	0.254	5.9	1900	5.7	2.5	
Ti	47	2	He	-0.015	-197.6	3	173.2	2.5	
Cu	63	1	No Gas	-0.427	-8.3	5775	8.1	2.5	
Se	82	1	No Gas	0.146	866.0	-340	-64.8	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	612143	0.52	616359	99.32	70	120	
Ge	72	2	He	542395	0.98	581898	93.21	70	120	
Ge	72	1	No Gas	1874256	1.44	1980660	94.63	70	120	
In	115	1	No Gas	2047807	0.74	2157828	94.90	70	120	
Bi	209	1	No Gas	1649097	0.99	1655794	99.60	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	059_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T12:43:58-05:00
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	101.744	3.181	1081099	2.21	100	101.7	90	110	
Be	9	1	No Gas	103.091	1.192	285280	0.47	100	103.1	90	110	
V	51	2	He	105.081	0.784	572898	0.22	100	105.1	90	110	
Cr	52	2	He	101.902	0.626	663544	0.58	100	101.9	90	110	
Fe	56	2	He	10517.055	1.293	61590441	0.74	10000	105.2	90	110	
Se	78	2	He	104.422	0.379	8801	0.89	100	104.4	90	110	
As	75	2	He	106.375	1.050	110710	0.79	100	106.4	90	110	
Ca	44	2	He	10319.485	1.137	329721	0.71	10000	103.2	90	110	
Na	23	2	He	10560.985	1.133	10566224	0.62	10000	105.6	90	110	
Mg	24	2	He	10780.725	0.953	5735005	0.39	10000	107.8	90	110	
K	39	2	He	10310.586	1.107	6977249	0.58	10000	103.1	90	110	
Mn	55	2	He	106.074	0.952	452614	0.42	100	106.1	90	110	
Co	59	2	He	106.406	1.748	1030432	1.45	100	106.4	90	110	
Ni	60	2	He	106.423	0.712	267550	0.49	100	106.4	90	110	
Cu	63	2	He	101.047	0.566	716332	0.40	100	101.0	90	110	
Zn	66	2	He	105.702	1.255	138117	0.77	100	105.7	90	110	
Al	27	2	He	101.645	0.816	29933	1.01	100	101.6	90	110	
B	11	1	No Gas	504.732	2.939	797442	1.70	500	100.9	90	110	
Al	27	1	No Gas	102.452	2.869	1320283	2.49	100	102.5	90	110	
Si	28	1	No Gas	549.503	2.325	3412918	1.30	5000	11.0	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	106.180	1.637	1549166	1.34	100	106.2	90	110	
Cd	111	1	No Gas	104.100	1.758	291814	1.48	100	104.1	90	110	
Sr	88	1	No Gas	106.288	1.560	2795978	0.96	100	106.3	90	110	
Mo	95	1	No Gas	104.412	1.194	528956	0.45	100	104.4	90	110	
Sn	118	1	No Gas	106.663	0.867	827213	0.51	100	106.7	90	110	
Sb	121	1	No Gas	108.894	0.285	1299596	0.80	100	108.9	90	110	
Ba	137	1	No Gas	106.360	1.458	404388	0.73	100	106.4	90	110	
Tl	205	1	No Gas	106.292	1.765	2447522	1.07	100	106.3	90	110	
Tl	203	1	No Gas	94.533	1.216	960041	0.15	100	94.5	90	110	
Pb	208	1	No Gas	100.661	1.512	3229096	1.03	100	100.7	90	110	
U	238	1	No Gas	103.692	1.354	3244842	0.60	100	103.7	90	110	
Ca	43	2	He	9945.134	4.316	18790	3.80	10000	99.5	90	110	
Sb	121	2	He	101.106	1.047	649852	0.50	100	101.1	90	110	
Ti	47	2	He	105.022	2.544	20612	2.09	100	105.0	90	110	
Cu	63	1	No Gas	105.929	1.098	1282250	0.85	100	105.9	90	110	
Se	82	1	No Gas	105.115	5.873	17819	5.44	100	105.1	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	649920	1.51	616359	105.45	70	120	
Ge	72	2	He	544172	0.56	581898	93.52	70	120	
Ge	72	1	No Gas	1860289	0.70	1980660	93.92	70	120	
In	115	1	No Gas	2009715	0.96	2157828	93.14	70	120	
Bi	209	1	No Gas	1650185	1.07	1655794	99.66	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	060_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T12:45:45-05:00
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	-0.127	-93.8	38660	4.0	0.5	
Be	9	1	No Gas	-0.006	-188.1	25	111.4	0.5	
V	51	2	He	-0.105	-10.3	777	6.7	2.5	
Cr	52	2	He	-0.017	-82.8	700	12.7	2.5	
Fe	56	2	He	-0.459	-0.5	11579	0.6	100	
Se	78	2	He	0.179	153.3	247	9.8	2	
As	75	2	He	-0.001	-738.4	101	6.9	2.5	
Ca	44	2	He	-9.894	-14.9	857	5.8	100	
Na	23	2	He	5.887	27.5	97758	0.9	100	
Mg	24	2	He	0.760	31.1	1060	11.8	100	
K	39	2	He	-3.329	-10.8	86812	0.6	100	
Mn	55	2	He	0.094	96.5	627	61.0	2.5	
Co	59	2	He	-0.001	-119.5	113	10.2	2.5	
Ni	60	2	He	-0.630	-1.8	127	22.8	2.5	
Cu	63	2	He	-0.397	-20.8	3597	15.9	2	
Zn	66	2	He	-0.149	-23.5	380	11.5	2.5	
Al	27	2	He	-2.019	-12.7	597	12.8	5	
B	11	1	No Gas	11.506	24.8	24904	15.4	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-1.645	-3.9	25495	7.2	5	
Si	28	1	No Gas	-9.208	-31.5	477055	0.8	10	
Ag	107	1	No Gas	0.001	438.8	613	11.6	2.5	
Cd	111	1	No Gas	0.004	255.8	30	88.2	1	
Sr	88	1	No Gas	-0.024	-19.5	1027	10.0	2.5	
Mo	95	1	No Gas	0.014	35.9	133	17.3	2.5	
Sn	118	1	No Gas	-0.082	-20.6	1433	14.8	5	
Sb	121	1	No Gas	0.078	27.2	1500	15.7	2.5	
Ba	137	1	No Gas	-0.027	-37.1	120	38.2	2.5	
Tl	205	1	No Gas	0.030	45.8	853	37.7	1	
Tl	203	1	No Gas	0.035	38.9	437	33.5	1	
Pb	208	1	No Gas	-0.036	-12.0	1363	11.0	2.5	
U	238	1	No Gas	0.001	166.8	100	55.7	2.5	
Ca	43	2	He	-1.133	-274.5	13	43.3	100	
Sb	121	2	He	0.069	12.4	710	7.0	2.5	
Ti	47	2	He	0.003	1147.3	7	86.6	2.5	
Cu	63	1	No Gas	-0.403	-5.7	6195	4.1	2.5	
Se	82	1	No Gas	0.270	466.8	-323	-68.1	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	657829	7.25	616359	106.73	70	120	
Ge	72	2	He	539863	0.74	581898	92.78	70	120	
Ge	72	1	No Gas	1916011	4.15	1980660	96.74	70	120	
In	115	1	No Gas	2107807	5.21	2157828	97.68	70	120	
Bi	209	1	No Gas	1733764	4.88	1655794	104.71	70	120	

Sample Report

Sample Table

Sample Name	HS22080927-01
Data File Name	061SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T12:47:44-05:00
Sample Type	Sample
Dilution	5
Comment	DOD TW 182759
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	19.949	99.744	0.54	239614	0.01	2000	
Be	9	1	No Gas	21.435	107.173	1.55	58329	0.04	2000	
V	51	2	He	20.816	104.080	0.80	115275	0.02	2000	
Cr	52	2	He	20.235	101.173	1.22	133227	0.02	2000	
Fe	56	2	He	2115.217	10576.086	0.15	12474816	0.02	200000	
Se	78	2	He	20.947	104.736	6.24	1964	1.07	2000	
As	75	2	He	21.316	106.578	0.69	22403	0.10	2000	
Ca	44	2	He	2051.214	10256.069	2.16	66892	3.07	200000	
Na	23	2	He	2192.674	10963.370	1.62	2281154	0.10	200000	
Mg	24	2	He	2216.944	11084.721	1.11	1187087	0.19	200000	
K	39	2	He	2149.056	10745.278	1.37	1534665	0.14	200000	
Mn	55	2	He	21.305	106.523	1.05	91649	0.02	2000	
Co	59	2	He	21.231	106.153	0.50	206960	0.01	2000	
Ni	60	2	He	21.005	105.027	2.41	54506	0.04	2000	
Cu	63	2	He	20.061	100.305	1.28	148258	0.01	2000	
Zn	66	2	He	21.545	107.724	1.86	28787	0.07	2000	
Al	27	2	He	21.343	106.715	5.99	7255	0.29	2000	
B	11	1	No Gas	101.230	506.148	3.44	162429	0.06	2000	
Al	27	1	No Gas	20.046	100.230	1.56	301954	0.01	2000	
Si	28	1	No Gas	136.485	682.424	0.79	1263134	0.01	2000	
Ag	107	1	No Gas	19.551	97.757	0.50	295874	0.01	2000	
Cd	111	1	No Gas	20.300	101.502	2.34	58942	0.03	2000	
Sr	88	1	No Gas	19.908	99.542	1.63	543666	0.00	2000	
Mo	95	1	No Gas	20.379	101.895	0.90	106956	0.02	2000	
Sn	118	1	No Gas	20.775	103.873	0.95	168504	0.01	2000	
Sb	121	1	No Gas	20.296	101.482	1.85	248631	0.01	2000	
Ba	137	1	No Gas	21.015	105.077	0.76	82921	0.03	2000	
Tl	205	1	No Gas	19.821	99.105	0.19	463671	0.00	2000	
Tl	203	1	No Gas	19.166	95.832	0.99	197733	0.01	2000	
Pb	208	1	No Gas	19.259	96.297	0.25	629510	0.00	2000	
U	238	1	No Gas	19.267	96.335	0.64	612399	0.00	2000	
Ca	43	2	He	2180.331	10901.654	2.91	4157	52.44	200000	
Sb	121	2	He	20.260	101.298	1.26	131238	0.02	2000	
Ti	47	2	He	21.482	107.412	2.11	4247	0.51	2000	
Cu	63	1	No Gas	19.751	98.754	0.82	254020	0.01	2000	
Zn	66	1	No Gas	21.347	106.733	1.35	71411	0.03	2000	
Se	82	1	No Gas	20.595	102.976	5.26	3278	0.63	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	638733	1.19	616359	103.63	70	120	
Ge	72	2	He	547488	0.20	581898	94.09	70	120	
Ge	72	1	No Gas	1906106	0.53	1980660	96.24	70	120	
In	115	1	No Gas	2081079	0.80	2157828	96.44	70	120	

Sample Report

Bi	209	1	No Gas	1675913	1.20	1655794	101.22	70	120	

Sample Report

Sample Table

Sample Name	HS22080927-01SD
Data File Name	062SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T12:49:36-05:00
Sample Type	Sample
Dilution	25
Comment	DOD TW 182759
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	4.069	101.724	0.82	80432	0.01	2000	
Be	9	1	No Gas	4.454	111.349	2.22	12244	0.04	2000	
V	51	2	He	4.323	108.076	1.31	25200	0.02	2000	
Cr	52	2	He	4.299	107.481	2.27	29168	0.01	2000	
Fe	56	2	He	457.166	11429.140	1.43	2727272	0.02	200000	
Se	78	2	He	4.077	101.927	5.96	576	0.71	2000	
As	75	2	He	4.547	113.686	1.60	4896	0.09	2000	
Ca	44	2	He	423.131	10578.287	3.44	14848	2.85	200000	
Na	23	2	He	420.243	10506.064	0.49	516341	0.08	200000	
Mg	24	2	He	446.073	11151.818	0.52	241142	0.18	200000	
K	39	2	He	401.317	10032.931	0.93	362632	0.11	200000	
Mn	55	2	He	4.600	115.012	1.76	20118	0.02	2000	
Co	59	2	He	4.377	109.428	0.63	43082	0.01	2000	
Ni	60	2	He	3.890	97.257	8.97	11572	0.03	2000	
Cu	63	2	He	3.913	97.833	1.66	34367	0.01	2000	
Zn	66	2	He	4.294	107.357	4.23	6248	0.07	2000	
Al	27	2	He	3.622	90.553	9.03	2227	0.16	2000	
B	11	1	No Gas	25.528	638.206	1.68	46231	0.06	2000	
Al	27	1	No Gas	4.047	101.182	2.55	97101	0.00	2000	
Si	28	1	No Gas	21.124	528.098	8.37	633653	0.00	2000	
Ag	107	1	No Gas	4.178	104.444	2.11	62983	0.01	2000	
Cd	111	1	No Gas	4.469	111.726	2.04	12853	0.03	2000	
Sr	88	1	No Gas	4.217	105.423	1.33	115206	0.00	2000	
Mo	95	1	No Gas	4.374	109.339	2.76	22743	0.02	2000	
Sn	118	1	No Gas	4.363	109.063	0.71	36615	0.01	2000	
Sb	121	1	No Gas	4.381	109.535	0.73	53640	0.01	2000	
Ba	137	1	No Gas	4.385	109.634	2.47	17285	0.03	2000	
Tl	205	1	No Gas	4.161	104.016	1.92	98406	0.00	2000	
Tl	203	1	No Gas	3.991	99.764	0.65	41633	0.01	2000	
Pb	208	1	No Gas	3.982	99.539	1.65	133440	0.00	2000	
U	238	1	No Gas	3.983	99.575	1.22	127921	0.00	2000	
Ca	43	2	He	442.968	11074.193	8.91	863	51.31	200000	
Sb	121	2	He	4.329	108.221	1.40	28465	0.02	2000	
Ti	47	2	He	4.913	122.820	6.07	983	0.50	2000	
Cu	63	1	No Gas	3.942	98.556	1.15	59102	0.01	2000	
Zn	66	1	No Gas	4.433	110.822	1.81	15806	0.03	2000	
Se	82	1	No Gas	4.595	114.887	24.60	439	1.05	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	643625	1.10	616359	104.42	70	120	
Ge	72	2	He	551496	0.33	581898	94.78	70	120	
Ge	72	1	No Gas	1890034	0.87	1980660	95.42	70	120	
In	115	1	No Gas	2058493	1.94	2157828	95.40	70	120	

Sample Report

Bi	209	1	No Gas	1692719	0.71	1655794	102.23	70	120	

Sample Report

Sample Table

Sample Name	HS22080927-01PDS
Data File Name	063SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T12:51:30-05:00
Sample Type	Sample
Dilution	5
Comment	DOD TW 182759
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	19.952	99.760	1.98	238017	0.01	2000	
Be	9	1	No Gas	121.600	608.000	0.31	328511	0.04	2000	
V	51	2	He	118.359	591.795	0.32	655876	0.02	2000	
Cr	52	2	He	114.383	571.914	0.84	757098	0.02	2000	
Fe	56	2	He	11664.121	58320.607	0.28	69447219	0.02	200000	
Se	78	2	He	117.172	585.862	1.19	10011	1.17	2000	
As	75	2	He	118.402	592.008	0.38	125268	0.09	2000	
Ca	44	2	He	11432.303	57161.515	0.39	371247	3.08	200000	
Na	23	2	He	11886.528	59432.642	0.84	12078519	0.10	200000	
Mg	24	2	He	11869.912	59349.562	1.02	6419497	0.18	200000	
K	39	2	He	11506.124	57530.621	1.16	7905169	0.15	200000	
Mn	55	2	He	117.938	589.692	0.57	511595	0.02	2000	
Co	59	2	He	127.123	635.617	1.15	1251535	0.01	2000	
Ni	60	2	He	117.531	587.655	0.54	300224	0.04	2000	
Cu	63	2	He	112.163	560.816	0.59	807647	0.01	2000	
Zn	66	2	He	117.827	589.134	2.33	156444	0.08	2000	
Al	27	2	He	113.114	565.569	0.67	33731	0.34	2000	
B	11	1	No Gas	100.829	504.143	2.45	160778	0.06	2000	
Al	27	1	No Gas	116.627	583.133	2.38	1507018	0.01	2000	
Si	28	1	No Gas	141.644	708.222	0.40	1268786	0.01	2000	
Ag	107	1	No Gas	118.193	590.964	0.60	1751523	0.01	2000	
Cd	111	1	No Gas	116.440	582.198	0.21	331546	0.04	2000	
Sr	88	1	No Gas	20.339	101.693	0.35	544798	0.00	2000	
Mo	95	1	No Gas	117.675	588.376	1.13	605498	0.02	2000	
Sn	118	1	No Gas	21.243	106.214	0.50	168962	0.01	2000	
Sb	121	1	No Gas	120.610	603.052	1.12	1449279	0.01	2000	
Ba	137	1	No Gas	118.501	592.505	0.58	457633	0.03	2000	
Tl	205	1	No Gas	114.988	574.940	1.18	2669177	0.00	2000	
Tl	203	1	No Gas	104.475	522.374	1.69	1069497	0.01	2000	
Pb	208	1	No Gas	112.372	561.860	1.44	3633455	0.00	2000	
U	238	1	No Gas	19.234	96.170	0.53	606779	0.00	2000	
Ca	43	2	He	11027.131	55135.654	1.63	21183	52.06	200000	
Sb	121	2	He	110.986	554.930	0.74	725210	0.02	2000	
Ti	47	2	He	120.761	603.804	1.35	24098	0.50	2000	
Cu	63	1	No Gas	121.801	609.003	0.90	1482949	0.01	2000	
Zn	66	1	No Gas	119.873	599.364	0.75	387738	0.03	2000	
Se	82	1	No Gas	116.534	582.670	1.53	19938	0.58	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	634442	1.22	616359	102.93	70	120	
Ge	72	2	He	553231	0.80	581898	95.07	70	120	
Ge	72	1	No Gas	1873268	1.37	1980660	94.58	70	120	
In	115	1	No Gas	2041250	0.88	2157828	94.60	70	120	

Sample Report

Bi	209	1	No Gas	1663346	0.93	1655794	100.46	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	071_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T13:06:25-05:00
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	102.179	7.305	1070278	2.46	100	102.2	90	110	
Be	9	1	No Gas	105.086	4.862	286880	1.24	100	105.1	90	110	
V	51	2	He	105.978	0.242	567455	0.47	100	106.0	90	110	
Cr	52	2	He	102.051	0.263	652637	0.74	100	102.1	90	110	
Fe	56	2	He	10480.807	0.685	60281352	0.11	10000	104.8	90	110	
Se	78	2	He	103.802	0.311	8593	0.84	100	103.8	90	110	
As	75	2	He	106.198	0.344	108551	0.69	100	106.2	90	110	
Ca	44	2	He	10224.993	0.724	320872	0.49	10000	102.2	90	110	
Na	23	2	He	10655.184	0.262	10469442	0.83	10000	106.6	90	110	
Mg	24	2	He	10604.930	1.004	5540616	0.74	10000	106.0	90	110	
K	39	2	He	10261.351	1.805	6819917	1.21	10000	102.6	90	110	
Mn	55	2	He	105.532	0.948	442261	1.02	100	105.5	90	110	
Co	59	2	He	108.067	4.698	1027667	4.17	100	108.1	90	110	
Ni	60	2	He	107.308	1.234	264926	0.67	100	107.3	90	110	
Cu	63	2	He	102.511	1.601	713589	1.01	100	102.5	90	110	
Zn	66	2	He	106.038	0.884	136078	0.31	100	106.0	90	110	
Al	27	2	He	100.226	1.597	29004	1.94	100	100.2	90	110	
B	11	1	No Gas	499.412	10.398	777343	6.28	500	99.9	90	110	
Al	27	1	No Gas	103.601	1.579	1324238	1.24	100	103.6	90	110	
Si	28	1	No Gas	545.422	2.004	3365160	1.36	5000	10.9	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	105.351	0.869	1544486	0.98	100	105.4	90	110	
Cd	111	1	No Gas	103.566	1.152	291705	0.58	100	103.6	90	110	
Sr	88	1	No Gas	104.978	0.769	2774927	0.83	100	105.0	90	110	
Mo	95	1	No Gas	103.732	1.514	528009	0.38	100	103.7	90	110	
Sn	118	1	No Gas	105.983	1.567	825833	0.49	100	106.0	90	110	
Sb	121	1	No Gas	109.600	2.500	1297778	2.21	100	109.6	90	110	
Ba	137	1	No Gas	104.771	2.150	400228	0.99	100	104.8	90	110	
Tl	205	1	No Gas	105.223	1.425	2426187	0.67	100	105.2	90	110	
Tl	203	1	No Gas	94.062	1.600	956601	1.74	100	94.1	90	110	
Pb	208	1	No Gas	100.168	1.446	3217546	0.70	100	100.2	90	110	
U	238	1	No Gas	102.190	1.363	3202118	0.55	100	102.2	90	110	
Ca	43	2	He	10303.908	3.230	19120	2.91	10000	103.0	90	110	
Sb	121	2	He	101.793	0.563	642582	0.80	100	101.8	90	110	
Ti	47	2	He	105.064	2.132	20252	1.60	100	105.1	90	110	
Cu	63	1	No Gas	105.877	1.142	1271667	0.86	100	105.9	90	110	
Se	82	1	No Gas	103.850	3.939	17469	4.30	100	103.9	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	642026	4.65	616359	104.16	70	120	
Ge	72	2	He	534436	0.58	581898	91.84	70	120	
Ge	72	1	No Gas	1845823	0.46	1980660	93.19	70	120	
In	115	1	No Gas	2019364	1.17	2157828	93.58	70	120	
Bi	209	1	No Gas	1652433	1.39	1655794	99.80	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	072_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T13:08:13-05:00
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	-0.137	-17.8	37308	0.7	0.5	
Be	9	1	No Gas	0.005	110.2	53	28.6	0.5	
V	51	2	He	-0.083	-5.5	882	2.1	2.5	
Cr	52	2	He	-0.008	-138.6	753	8.8	2.5	
Fe	56	2	He	-0.504	-15.8	11205	4.0	100	
Se	78	2	He	0.088	220.2	237	5.9	2	
As	75	2	He	-0.004	-663.1	97	28.2	2.5	
Ca	44	2	He	-10.796	-25.2	820	10.8	100	
Na	23	2	He	2.603	18.1	93576	0.2	100	
Mg	24	2	He	0.578	38.5	953	11.6	100	
K	39	2	He	-5.820	-11.9	84300	1.0	100	
Mn	55	2	He	0.027	58.4	340	19.3	2.5	
Co	59	2	He	-0.006	-26.6	67	22.9	2.5	
Ni	60	2	He	-0.609	-2.4	177	19.9	2.5	
Cu	63	2	He	-0.469	-2.3	3064	2.4	2	
Zn	66	2	He	-0.109	-45.6	427	15.3	2.5	
Al	27	2	He	-1.792	-16.5	653	12.4	5	
B	11	1	No Gas	11.627	23.1	24338	16.4	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-1.677	-0.3	24305	0.3	5	
Si	28	1	No Gas	-9.490	-3.0	461629	0.3	10	
Ag	107	1	No Gas	-0.005	-180.2	507	27.4	2.5	
Cd	111	1	No Gas	0.006	32.8	37	15.7	1	
Sr	88	1	No Gas	-0.026	-13.8	957	10.6	2.5	
Mo	95	1	No Gas	0.007	113.3	93	43.3	2.5	
Sn	118	1	No Gas	-0.068	-10.8	1517	4.3	5	
Sb	121	1	No Gas	0.076	6.6	1440	4.3	2.5	
Ba	137	1	No Gas	-0.010	-75.6	180	16.7	2.5	
Tl	205	1	No Gas	0.037	51.9	990	45.0	1	
Tl	203	1	No Gas	0.034	44.0	410	37.5	1	
Pb	208	1	No Gas	-0.024	-15.0	1700	7.3	2.5	
U	238	1	No Gas	0.003	42.8	163	25.5	2.5	
Ca	43	2	He	-2.841	-191.1	10	100.0	100	
Sb	121	2	He	0.078	21.1	760	13.9	2.5	
Ti	47	2	He	0.003	2151.6	7	173.2	2.5	
Cu	63	1	No Gas	-0.420	-9.2	5811	8.3	2.5	
Se	82	1	No Gas	1.143	166.2	-167	-197.9	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	635574	0.48	616359	103.12	70	120	
Ge	72	2	He	534394	0.65	581898	91.84	70	120	
Ge	72	1	No Gas	1858371	0.57	1980660	93.83	70	120	
In	115	1	No Gas	2067984	0.47	2157828	95.84	70	120	
Bi	209	1	No Gas	1654463	0.67	1655794	99.92	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	083_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T13:29:01-05:00
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	112.894	2.052	981113	2.50	100	112.9	90	110	CCV Main CR1-2 Failed
Be	9	1	No Gas	113.707	1.065	258227	0.40	100	113.7	90	110	CCV Main CR1-2 Failed
V	51	2	He	105.405	1.031	579003	0.61	100	105.4	90	110	
Cr	52	2	He	101.020	1.062	662768	0.80	100	101.0	90	110	
Fe	56	2	He	10477.460	1.132	61822736	0.65	10000	104.8	90	110	
Se	78	2	He	104.486	3.674	8871	2.74	100	104.5	90	110	
As	75	2	He	106.427	2.255	111586	0.76	100	106.4	90	110	
Ca	44	2	He	10317.834	1.346	332151	0.59	10000	103.2	90	110	
Na	23	2	He	10510.121	1.498	10594764	0.05	10000	105.1	90	110	
Mg	24	2	He	10413.313	0.392	5581831	1.25	10000	104.1	90	110	
K	39	2	He	10277.525	1.269	7007727	0.87	10000	102.8	90	110	
Mn	55	2	He	105.256	1.144	452521	0.73	100	105.3	90	110	
Co	59	2	He	110.916	5.000	1082208	4.83	100	110.9	90	110	CCV Main CR1-2 Failed
Ni	60	2	He	105.961	1.237	268400	0.45	100	106.0	90	110	
Cu	63	2	He	100.779	1.410	719806	0.27	100	100.8	90	110	
Zn	66	2	He	105.125	0.412	138417	1.38	100	105.1	90	110	
Al	27	2	He	98.435	1.476	29248	2.55	100	98.4	90	110	
B	11	1	No Gas	510.635	0.950	662154	1.12	500	102.1	90	110	
Al	27	1	No Gas	98.569	1.111	1273016	1.52	100	98.6	90	110	
Si	28	1	No Gas	521.498	4.711	3266390	1.86	5000	10.4	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	105.531	0.962	1561513	0.72	100	105.5	90	110	
Cd	111	1	No Gas	103.626	0.742	294602	0.58	100	103.6	90	110	
Sr	88	1	No Gas	104.872	1.404	2797919	1.27	100	104.9	90	110	
Mo	95	1	No Gas	103.285	0.857	530670	0.79	100	103.3	90	110	
Sn	118	1	No Gas	105.186	1.094	827328	0.88	100	105.2	90	110	
Sb	121	1	No Gas	111.324	2.018	1329386	0.62	100	111.3	90	110	CCV Main CR1-2 Failed
Ba	137	1	No Gas	105.281	0.921	405976	0.99	100	105.3	90	110	
Tl	205	1	No Gas	106.287	1.973	2417458	0.64	100	106.3	90	110	
Tl	203	1	No Gas	95.147	2.418	954368	0.57	100	95.1	90	110	
Pb	208	1	No Gas	101.133	2.328	3204269	0.61	100	101.1	90	110	
U	238	1	No Gas	103.388	1.583	3196004	1.44	100	103.4	90	110	
Ca	43	2	He	10433.475	1.591	19868	3.07	10000	104.3	90	110	
Sb	121	2	He	100.426	1.431	650336	0.10	100	100.4	90	110	
Ti	47	2	He	106.932	1.945	21147	1.62	100	106.9	90	110	
Cu	63	1	No Gas	106.125	3.813	1285098	1.78	100	106.1	90	110	
Se	82	1	No Gas	107.890	3.160	18311	1.06	100	107.9	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	533335	0.68	616359	86.53	70	120	
Ge	72	2	He	548320	1.52	581898	94.23	70	120	
Ge	72	1	No Gas	1861943	2.20	1980660	94.01	70	120	
In	115	1	No Gas	2038098	0.24	2157828	94.45	70	120	
Bi	209	1	No Gas	1630287	2.26	1655794	98.46	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	084_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T13:30:50-05:00
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	-0.031	-191.3	33004	0.4	0.5	
Be	9	1	No Gas	-0.007	-37.9	18	31.5	0.5	
V	51	2	He	0.052	24.9	1651	3.5	2.5	
Cr	52	2	He	-0.003	-1117.9	810	22.7	2.5	
Fe	56	2	He	-0.396	-15.8	12149	2.0	100	
Se	78	2	He	-0.154	-32.2	223	2.9	2	
As	75	2	He	0.027	72.4	132	16.4	2.5	
Ca	44	2	He	-14.395	-14.3	727	9.0	100	
Na	23	2	He	3.349	49.0	96908	1.2	100	
Mg	24	2	He	0.396	34.1	883	9.2	100	
K	39	2	He	-13.815	-1.4	81245	1.1	100	
Mn	55	2	He	0.045	18.5	427	8.2	2.5	
Co	59	2	He	-0.004	-103.8	83	54.1	2.5	
Ni	60	2	He	-0.611	-4.3	177	36.0	2.5	
Cu	63	2	He	-0.508	-2.2	2874	1.7	2	
Zn	66	2	He	-0.164	-11.8	367	6.9	2.5	
Al	27	2	He	-1.783	-18.1	673	12.6	5	
B	11	1	No Gas	12.068	23.8	21490	16.2	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-1.603	-1.6	25751	1.1	5	
Si	28	1	No Gas	-14.857	-1.7	442312	0.2	10	
Ag	107	1	No Gas	-0.004	-53.2	527	4.0	2.5	
Cd	111	1	No Gas	0.003	74.1	27	21.7	1	
Sr	88	1	No Gas	-0.023	-27.7	1043	19.4	2.5	
Mo	95	1	No Gas	0.006	58.1	90	19.2	2.5	
Sn	118	1	No Gas	-0.094	-24.6	1300	11.5	5	
Sb	121	1	No Gas	0.031	29.2	913	11.5	2.5	
Ba	137	1	No Gas	-0.024	-60.4	123	44.7	2.5	
Tl	205	1	No Gas	0.033	42.8	880	37.3	1	
Tl	203	1	No Gas	0.036	10.3	427	9.5	1	
Pb	208	1	No Gas	-0.030	-9.6	1483	6.8	2.5	
U	238	1	No Gas	0.003	36.3	147	20.8	2.5	
Ca	43	2	He	2.179	633.8	20	132.3	100	
Sb	121	2	He	0.042	40.2	553	20.9	2.5	
Ti	47	2	He	0.002	1473.2	7	86.6	2.5	
Cu	63	1	No Gas	-0.465	-1.5	5384	1.8	2.5	
Se	82	1	No Gas	-0.060	-1218.4	-382	-34.0	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	546747	1.79	616359	88.71	70	120	
Ge	72	2	He	549201	1.06	581898	94.38	70	120	
Ge	72	1	No Gas	1896905	0.47	1980660	95.77	70	120	
In	115	1	No Gas	2063823	2.87	2157828	95.64	70	120	
Bi	209	1	No Gas	1639791	0.93	1655794	99.03	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	095_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T13:51:34-05:00
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	112.128	1.273	909098	0.22	100	112.1	90	110	CCV Main CR1-2 Failed
Be	9	1	No Gas	115.902	1.644	245523	0.64	100	115.9	90	110	CCV Main CR1-2 Failed
V	51	2	He	105.698	0.819	580399	0.10	100	105.7	90	110	
Cr	52	2	He	102.540	0.510	672494	0.25	100	102.5	90	110	
Fe	56	2	He	10496.318	0.948	61911907	0.44	10000	105.0	90	110	
Se	78	2	He	103.681	2.168	8802	1.65	100	103.7	90	110	
As	75	2	He	105.900	0.705	111010	0.67	100	105.9	90	110	
Ca	44	2	He	10363.109	1.738	333479	1.07	10000	103.6	90	110	
Na	23	2	He	10568.335	0.928	10649784	0.79	10000	105.7	90	110	
Mg	24	2	He	10592.401	1.235	5675339	0.83	10000	105.9	90	110	
K	39	2	He	10297.431	1.925	7018252	1.17	10000	103.0	90	110	
Mn	55	2	He	105.330	1.104	452675	0.65	100	105.3	90	110	
Co	59	2	He	110.193	4.206	1074790	4.13	100	110.2	90	110	CCV Main CR1-2 Failed
Ni	60	2	He	108.018	0.611	273485	0.22	100	108.0	90	110	
Cu	63	2	He	101.331	1.102	723476	0.44	100	101.3	90	110	
Zn	66	2	He	105.227	1.618	138484	0.87	100	105.2	90	110	
Al	27	2	He	98.134	3.214	29144	2.56	100	98.1	90	110	
B	11	1	No Gas	518.844	2.034	627538	2.21	500	103.8	90	110	
Al	27	1	No Gas	96.080	2.190	1266667	3.67	100	96.1	90	110	
Si	28	1	No Gas	481.034	2.182	3113553	0.96	5000	9.6	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	104.123	1.354	1568502	1.33	100	104.1	90	110	
Cd	111	1	No Gas	102.801	2.163	297497	1.09	100	102.8	90	110	
Sr	88	1	No Gas	103.438	1.543	2809478	1.49	100	103.4	90	110	
Mo	95	1	No Gas	102.351	2.983	535271	1.97	100	102.4	90	110	
Sn	118	1	No Gas	104.169	2.128	834051	1.04	100	104.2	90	110	
Sb	121	1	No Gas	108.516	0.573	1321507	1.58	100	108.5	90	110	
Ba	137	1	No Gas	103.877	2.264	407739	1.19	100	103.9	90	110	
Tl	205	1	No Gas	106.563	1.983	2448164	0.70	100	106.6	90	110	
Tl	203	1	No Gas	95.196	1.732	964575	0.52	100	95.2	90	110	
Pb	208	1	No Gas	100.045	1.210	3202264	0.97	100	100.0	90	110	
U	238	1	No Gas	102.743	1.372	3207922	0.28	100	102.7	90	110	
Ca	43	2	He	10161.369	2.176	19337	1.49	10000	101.6	90	110	
Sb	121	2	He	100.697	0.749	651896	0.83	100	100.7	90	110	
Ti	47	2	He	105.650	0.533	20886	0.22	100	105.6	90	110	
Cu	63	1	No Gas	103.289	2.711	1275775	1.09	100	103.3	90	110	
Se	82	1	No Gas	102.846	6.868	17778	6.06	100	102.8	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	497530	1.17	616359	80.72	70	120	
Ge	72	2	He	548090	0.75	581898	94.19	70	120	
Ge	72	1	No Gas	1898276	1.62	1980660	95.84	70	120	
In	115	1	No Gas	2074959	1.14	2157828	96.16	70	120	
Bi	209	1	No Gas	1646558	1.51	1655794	99.44	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	096_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T13:53:23-05:00
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	-0.040	-112.9	30266	1.0	0.5	
Be	9	1	No Gas	-0.002	-123.3	27	21.7	0.5	
V	51	2	He	0.133	15.3	2095	4.6	2.5	
Cr	52	2	He	-0.006	-199.6	790	10.0	2.5	
Fe	56	2	He	-0.485	-7.3	11628	1.0	100	
Se	78	2	He	0.021	1782.1	238	13.9	2	
As	75	2	He	0.029	27.2	134	6.2	2.5	
Ca	44	2	He	-12.638	-7.7	783	3.2	100	
Na	23	2	He	5.209	26.2	98801	0.6	100	
Mg	24	2	He	0.646	42.7	1017	14.2	100	
K	39	2	He	-14.964	-1.8	80494	0.7	100	
Mn	55	2	He	0.022	34.3	330	10.5	2.5	
Co	59	2	He	-0.004	-85.9	90	33.3	2.5	
Ni	60	2	He	-0.624	-1.0	143	10.7	2.5	
Cu	63	2	He	-0.501	-4.7	2924	6.4	2	
Zn	66	2	He	-0.192	-29.8	330	21.9	2.5	
Al	27	2	He	-1.743	-45.7	687	33.8	5	
B	11	1	No Gas	11.814	22.4	19477	16.3	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-1.794	-1.9	23226	2.1	5	
Si	28	1	No Gas	-21.150	-5.9	406715	0.3	10	
Ag	107	1	No Gas	-0.010	-50.0	433	19.4	2.5	
Cd	111	1	No Gas	-0.004	-92.2	7	173.2	1	
Sr	88	1	No Gas	-0.021	-14.2	1103	8.6	2.5	
Mo	95	1	No Gas	0.009	111.3	103	48.7	2.5	
Sn	118	1	No Gas	-0.090	-16.4	1343	8.7	5	
Sb	121	1	No Gas	0.019	63.5	760	17.3	2.5	
Ba	137	1	No Gas	-0.002	-579.1	213	21.1	2.5	
Tl	205	1	No Gas	0.032	42.9	867	37.7	1	
Tl	203	1	No Gas	0.034	33.6	407	29.6	1	
Pb	208	1	No Gas	-0.034	-23.3	1350	19.3	2.5	
U	238	1	No Gas	0.002	67.5	123	32.8	2.5	
Ca	43	2	He	0.445	1791.3	17	91.7	100	
Sb	121	2	He	0.011	160.3	350	33.7	2.5	
Ti	47	2	He	-0.015	-192.7	3	173.2	2.5	
Cu	63	1	No Gas	-0.478	-5.4	5194	6.0	2.5	
Se	82	1	No Gas	1.012	69.9	-191	-63.7	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	502534	0.56	616359	81.53	70	120	
Ge	72	2	He	549366	0.80	581898	94.41	70	120	
Ge	72	1	No Gas	1889261	1.84	1980660	95.39	70	120	
In	115	1	No Gas	2078068	1.37	2157828	96.30	70	120	
Bi	209	1	No Gas	1639435	1.29	1655794	99.01	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	154_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T16:18:00-05:00
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	109.561	0.605	937975	1.33	100	109.6	90	110	
Be	9	1	No Gas	108.847	0.179	243289	0.89	100	108.8	90	110	
V	51	2	He	97.960	0.770	542525	0.34	100	98.0	90	110	
Cr	52	2	He	94.947	1.075	627973	0.81	100	94.9	90	110	
Fe	56	2	He	9749.376	0.326	57991841	0.73	10000	97.5	90	110	
Se	78	2	He	94.248	1.678	8090	1.41	100	94.2	90	110	
As	75	2	He	100.062	0.814	105775	0.56	100	100.1	90	110	
Ca	44	2	He	9521.220	1.022	309072	0.90	10000	95.2	90	110	
Na	23	2	He	10002.663	0.970	10169233	0.56	10000	100.0	90	110	
Mg	24	2	He	9962.140	0.690	5382630	0.71	10000	99.6	90	110	
K	39	2	He	9434.250	1.380	6491829	0.99	10000	94.3	90	110	
Mn	55	2	He	98.304	0.344	426049	0.27	100	98.3	90	110	
Co	59	2	He	98.569	0.345	969527	0.76	100	98.6	90	110	
Ni	60	2	He	98.922	0.831	252703	0.40	100	98.9	90	110	
Cu	63	2	He	94.648	0.469	681890	0.80	100	94.6	90	110	
Zn	66	2	He	100.337	0.395	133192	0.15	100	100.3	90	110	
Al	27	2	He	92.637	0.717	27812	0.30	100	92.6	90	110	
B	11	1	No Gas	497.595	1.153	635190	1.75	500	99.5	90	110	
Al	27	1	No Gas	90.440	1.879	1177866	0.52	100	90.4	90	110	
Si	28	1	No Gas	460.380	2.616	2960207	0.76	5000	9.2	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	99.991	1.629	1501824	1.28	100	100.0	90	110	
Cd	111	1	No Gas	99.133	1.516	286064	0.90	100	99.1	90	110	
Sr	88	1	No Gas	97.434	1.355	2638673	0.79	100	97.4	90	110	
Mo	95	1	No Gas	95.099	2.094	495946	1.58	100	95.1	90	110	
Sn	118	1	No Gas	99.522	1.146	794671	0.75	100	99.5	90	110	
Sb	121	1	No Gas	105.671	3.625	1268364	1.63	100	105.7	90	110	
Ba	137	1	No Gas	100.435	1.617	393119	1.34	100	100.4	90	110	
Tl	205	1	No Gas	103.625	0.872	2441161	0.66	100	103.6	90	110	
Tl	203	1	No Gas	92.642	1.385	962491	0.59	100	92.6	90	110	
Pb	208	1	No Gas	97.107	1.510	3186805	0.61	100	97.1	90	110	
U	238	1	No Gas	98.447	3.200	3151025	1.78	100	98.4	90	110	
Ca	43	2	He	9385.321	1.926	18012	1.51	10000	93.9	90	110	
Sb	121	2	He	94.734	0.928	618444	0.51	100	94.7	90	110	
Ti	47	2	He	95.881	2.349	19114	1.96	100	95.9	90	110	
Cu	63	1	No Gas	96.266	1.864	1173270	0.20	100	96.3	90	110	
Se	82	1	No Gas	99.481	1.237	16952	1.90	100	99.5	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	524888	0.80	616359	85.16	70	120	
Ge	72	2	He	552682	0.43	581898	94.98	70	120	
Ge	72	1	No Gas	1871868	2.06	1980660	94.51	70	120	
In	115	1	No Gas	2068822	0.62	2157828	95.88	70	120	
Bi	209	1	No Gas	1688211	1.42	1655794	101.96	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	155_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T16:19:49-05:00
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	-0.077	-67.0	31600	1.1	0.5	
Be	9	1	No Gas	-0.001	-788.6	32	32.9	0.5	
V	51	2	He	0.022	30.4	1456	3.4	2.5	
Cr	52	2	He	-0.020	-90.6	687	17.6	2.5	
Fe	56	2	He	-0.135	-210.5	13439	12.8	100	
Se	78	2	He	0.251	91.1	252	8.4	2	
As	75	2	He	0.023	151.8	126	29.1	2.5	
Ca	44	2	He	-12.487	-38.2	773	19.8	100	
Na	23	2	He	6.183	29.2	97831	0.8	100	
Mg	24	2	He	0.288	151.6	810	29.4	100	
K	39	2	He	-8.147	-11.1	83441	1.8	100	
Mn	55	2	He	0.037	49.7	383	21.1	2.5	
Co	59	2	He	0.001	498.7	133	37.0	2.5	
Ni	60	2	He	-0.634	-2.9	117	38.7	2.5	
Cu	63	2	He	-0.559	-7.2	2464	10.5	2	
Zn	66	2	He	-0.203	-20.3	310	18.0	2.5	
Al	27	2	He	-2.954	-3.9	333	10.5	5	
B	11	1	No Gas	10.778	18.0	19202	12.3	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-2.600	-0.9	12703	2.5	5	
Si	28	1	No Gas	-27.538	-1.3	362882	0.4	10	
Ag	107	1	No Gas	0.002	365.5	610	14.2	2.5	
Cd	111	1	No Gas	0.000	1178.5	20	50.0	1	
Sr	88	1	No Gas	-0.032	-4.9	790	4.4	2.5	
Mo	95	1	No Gas	0.001	201.1	63	18.2	2.5	
Sn	118	1	No Gas	-0.137	-2.6	970	2.7	5	
Sb	121	1	No Gas	0.001	602.0	530	7.5	2.5	
Ba	137	1	No Gas	0.029	51.7	333	16.5	2.5	
Tl	205	1	No Gas	0.003	36.5	217	14.1	1	
Tl	203	1	No Gas	0.007	77.9	137	42.9	1	
Pb	208	1	No Gas	-0.036	-3.7	1340	3.9	2.5	
U	238	1	No Gas	0.003	62.8	177	39.8	2.5	
Ca	43	2	He	11.369	54.7	37	31.5	100	
Sb	121	2	He	0.010	121.4	333	21.7	2.5	
Ti	47	2	He	0.054	110.3	17	69.3	2.5	
Cu	63	1	No Gas	-0.518	-4.8	4591	6.8	2.5	
Se	82	1	No Gas	1.149	74.4	-163	-89.6	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	529786	0.66	616359	85.95	70	120	
Ge	72	2	He	538686	1.04	581898	92.57	70	120	
Ge	72	1	No Gas	1840273	0.44	1980660	92.91	70	120	
In	115	1	No Gas	2072144	1.16	2157828	96.03	70	120	
Bi	209	1	No Gas	1709717	0.57	1655794	103.26	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	166_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T16:48:25-05:00
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	104.543	1.297	821398	2.94	100	104.5	90	110	
Be	9	1	No Gas	108.979	0.783	223173	2.36	100	109.0	90	110	
V	51	2	He	99.156	1.033	580077	0.41	100	99.2	90	110	
Cr	52	2	He	95.397	0.801	666510	0.25	100	95.4	90	110	
Fe	56	2	He	9839.678	1.518	61823647	0.74	10000	98.4	90	110	
Se	78	2	He	95.582	2.047	8663	1.31	100	95.6	90	110	
As	75	2	He	102.489	0.717	114446	0.58	100	102.5	90	110	
Ca	44	2	He	9736.514	0.880	333843	0.10	10000	97.4	90	110	
Na	23	2	He	9980.735	1.237	10719007	0.71	10000	99.8	90	110	
Mg	24	2	He	9806.579	0.837	5597146	0.19	10000	98.1	90	110	
K	39	2	He	9615.388	1.481	6987391	0.61	10000	96.2	90	110	
Mn	55	2	He	99.220	1.262	454237	0.43	100	99.2	90	110	
Co	59	2	He	100.154	2.064	1040565	1.53	100	100.2	90	110	
Ni	60	2	He	98.671	1.333	266275	1.24	100	98.7	90	110	
Cu	63	2	He	94.237	0.471	717223	0.50	100	94.2	90	110	
Zn	66	2	He	101.523	0.486	142357	0.65	100	101.5	90	110	
Al	27	2	He	92.159	1.357	29234	1.25	100	92.2	90	110	
B	11	1	No Gas	538.321	1.518	629115	2.17	500	107.7	90	110	
Al	27	1	No Gas	87.422	1.529	1177986	0.61	100	87.4	90	110	CCV Main CR1-2 Failed
Si	28	1	No Gas	441.927	3.513	2957889	3.28	5000	8.8	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	100.639	1.865	1543539	1.28	100	100.6	90	110	
Cd	111	1	No Gas	98.361	0.154	289874	1.02	100	98.4	90	110	
Sr	88	1	No Gas	98.322	0.786	2719237	0.80	100	98.3	90	110	
Mo	95	1	No Gas	95.851	0.693	510544	1.87	100	95.9	90	110	
Sn	118	1	No Gas	99.293	1.070	809700	1.55	100	99.3	90	110	
Sb	121	1	No Gas	105.574	2.187	1309758	2.24	100	105.6	90	110	
Ba	137	1	No Gas	99.843	0.890	399121	1.65	100	99.8	90	110	
Tl	205	1	No Gas	102.018	2.146	2391350	1.02	100	102.0	90	110	
Tl	203	1	No Gas	92.214	1.838	953508	2.46	100	92.2	90	110	
Pb	208	1	No Gas	95.994	0.265	3135681	2.28	100	96.0	90	110	
U	238	1	No Gas	95.787	0.942	3051965	1.93	100	95.8	90	110	
Ca	43	2	He	9582.424	0.962	19427	0.74	10000	95.8	90	110	
Sb	121	2	He	94.068	0.648	648721	0.59	100	94.1	90	110	
Ti	47	2	He	100.203	3.053	21107	3.96	100	100.2	90	110	
Cu	63	1	No Gas	96.016	1.475	1209281	1.72	100	96.0	90	110	
Se	82	1	No Gas	98.566	4.507	17345	3.71	100	98.6	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	480908	2.27	616359	78.02	70	120	
Ge	72	2	He	583850	0.93	581898	100.34	70	120	
Ge	72	1	No Gas	1933943	1.69	1980660	97.64	70	120	
In	115	1	No Gas	2112723	1.17	2157828	97.91	70	120	
Bi	209	1	No Gas	1680140	2.20	1655794	101.47	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	167_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T16:50:14-05:00
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	0.203	11.2	30458	0.6	0.5	
Be	9	1	No Gas	-0.009	-41.9	12	65.5	0.5	
V	51	2	He	0.179	5.6	2354	2.5	2.5	
Cr	52	2	He	-0.020	-52.6	700	10.0	2.5	
Fe	56	2	He	-0.676	-6.4	10518	2.6	100	
Se	78	2	He	0.413	88.1	271	10.8	2	
As	75	2	He	0.040	57.6	146	16.2	2.5	
Ca	44	2	He	-17.756	-18.9	620	17.4	100	
Na	23	2	He	31.473	9.7	125306	2.1	100	
Mg	24	2	He	-0.554	-21.8	373	17.2	100	
K	39	2	He	-11.147	-5.9	83207	0.8	100	
Mn	55	2	He	0.033	50.8	377	19.6	2.5	
Co	59	2	He	-0.004	-96.5	90	38.5	2.5	
Ni	60	2	He	-0.647	-2.2	87	40.5	2.5	
Cu	63	2	He	-0.476	-9.2	3104	10.1	2	
Zn	66	2	He	-0.180	-20.4	347	14.2	2.5	
Al	27	2	He	-2.804	-9.3	383	19.6	5	
B	11	1	No Gas	19.282	13.6	27003	11.7	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-2.695	-0.6	11658	1.8	5	
Si	28	1	No Gas	-26.283	-5.1	373259	1.2	10	
Ag	107	1	No Gas	-0.001	-130.0	567	5.1	2.5	
Cd	111	1	No Gas	-0.005	-37.5	3	173.2	1	
Sr	88	1	No Gas	-0.040	-5.5	587	8.4	2.5	
Mo	95	1	No Gas	0.001	885.3	60	44.1	2.5	
Sn	118	1	No Gas	-0.129	-10.8	1020	10.2	5	
Sb	121	1	No Gas	0.013	78.9	687	17.4	2.5	
Ba	137	1	No Gas	-0.040	-26.4	63	63.8	2.5	
Tl	205	1	No Gas	0.006	55.9	277	29.0	1	
Tl	203	1	No Gas	0.006	51.2	117	24.7	1	
Pb	208	1	No Gas	-0.035	-12.3	1357	10.0	2.5	
U	238	1	No Gas	0.001	172.6	103	65.9	2.5	
Ca	43	2	He	-6.514	-46.4	3	173.2	100	
Sb	121	2	He	0.013	37.3	363	8.8	2.5	
Ti	47	2	He	0.052	147.7	17	91.7	2.5	
Cu	63	1	No Gas	-0.470	-6.9	5218	7.0	2.5	
Se	82	1	No Gas	0.416	538.6	-293	-133.0	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	475498	0.71	616359	77.15	70	120	
Ge	72	2	He	550278	0.32	581898	94.57	70	120	
Ge	72	1	No Gas	1859487	0.82	1980660	93.88	70	120	
In	115	1	No Gas	2055344	1.85	2157828	95.25	70	120	
Bi	209	1	No Gas	1661264	1.26	1655794	100.33	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	189_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T17:43:32-05:00
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	107.045	0.793	880643	1.19	100	107.0	90	110	
Be	9	1	No Gas	109.366	0.667	234713	0.58	100	109.4	90	110	
V	51	2	He	97.686	0.814	552214	0.34	100	97.7	90	110	
Cr	52	2	He	94.341	0.506	636903	0.51	100	94.3	90	110	
Fe	56	2	He	9760.865	1.203	59258914	0.38	10000	97.6	90	110	
Se	78	2	He	95.763	1.281	8387	0.63	100	95.8	90	110	
As	75	2	He	100.915	0.826	108888	1.16	100	100.9	90	110	
Ca	44	2	He	9549.263	1.125	316386	0.12	10000	95.5	90	110	
Na	23	2	He	9899.989	0.630	10274389	0.49	10000	99.0	90	110	
Mg	24	2	He	9929.572	2.133	5475827	1.73	10000	99.3	90	110	
K	39	2	He	9507.662	1.171	6677159	0.90	10000	95.1	90	110	
Mn	55	2	He	97.998	0.377	433525	0.69	100	98.0	90	110	
Co	59	2	He	97.903	0.551	982894	0.46	100	97.9	90	110	
Ni	60	2	He	98.660	0.411	257270	1.18	100	98.7	90	110	
Cu	63	2	He	93.762	0.824	689529	0.21	100	93.8	90	110	
Zn	66	2	He	99.582	0.985	134928	0.49	100	99.6	90	110	
Al	27	2	He	93.440	0.783	28623	0.64	100	93.4	90	110	
B	11	1	No Gas	506.055	1.589	620186	2.07	500	101.2	90	110	
Al	27	1	No Gas	88.990	2.486	1174976	1.08	100	89.0	90	110	CCV Main CR1-2 Failed
Si	28	1	No Gas	442.478	1.507	2903823	2.40	5000	8.8	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	99.151	0.641	1508222	2.07	100	99.2	90	110	
Cd	111	1	No Gas	97.447	1.552	284733	0.30	100	97.4	90	110	
Sr	88	1	No Gas	96.650	1.636	2650338	0.61	100	96.7	90	110	
Mo	95	1	No Gas	94.764	1.706	500414	0.39	100	94.8	90	110	
Sn	118	1	No Gas	99.159	2.177	801689	1.10	100	99.2	90	110	
Sb	121	1	No Gas	104.756	3.204	1274219	2.07	100	104.8	90	110	
Ba	137	1	No Gas	99.432	1.538	394090	0.79	100	99.4	90	110	
Tl	205	1	No Gas	101.166	1.413	2417971	1.52	100	101.2	90	110	
Tl	203	1	No Gas	90.482	0.844	953768	0.47	100	90.5	90	110	
Pb	208	1	No Gas	94.132	1.357	3134402	1.31	100	94.1	90	110	
U	238	1	No Gas	95.891	1.238	3114666	1.40	100	95.9	90	110	
Ca	43	2	He	9522.562	2.232	18653	1.49	10000	95.2	90	110	
Sb	121	2	He	93.898	1.162	625671	0.51	100	93.9	90	110	
Ti	47	2	He	97.702	4.718	19878	4.24	100	97.7	90	110	
Cu	63	1	No Gas	95.904	2.812	1184289	1.66	100	95.9	90	110	
Se	82	1	No Gas	98.810	3.128	17055	2.83	100	98.8	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	503989	0.60	616359	81.77	70	120	
Ge	72	2	He	564141	1.00	581898	96.95	70	120	
Ge	72	1	No Gas	1896465	1.34	1980660	95.75	70	120	
In	115	1	No Gas	2095100	1.84	2157828	97.09	70	120	
Bi	209	1	No Gas	1712677	0.37	1655794	103.44	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	190_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T17:45:21-05:00
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	-0.115	-50.3	30211	1.7	0.5	
Be	9	1	No Gas	0.008	77.5	48	26.0	0.5	
V	51	2	He	-0.113	-6.8	732	7.1	2.5	
Cr	52	2	He	-0.008	-100.4	760	5.7	2.5	
Fe	56	2	He	0.000	-162553.4	14320	27.3	100	
Se	78	2	He	0.256	129.5	253	9.5	2	
As	75	2	He	0.003	368.7	106	11.1	2.5	
Ca	44	2	He	-17.225	-13.0	627	11.3	100	
Na	23	2	He	27.372	13.7	119263	4.5	100	
Mg	24	2	He	-0.042	-755.7	640	27.2	100	
K	39	2	He	-4.515	-72.6	86272	3.6	100	
Mn	55	2	He	0.061	51.9	490	28.8	2.5	
Co	59	2	He	0.004	79.3	160	18.8	2.5	
Ni	60	2	He	-0.621	-1.2	150	13.3	2.5	
Cu	63	2	He	-0.560	-7.8	2470	13.7	2	
Zn	66	2	He	-0.237	-20.2	267	23.8	2.5	
Al	27	2	He	-2.831	-5.9	370	14.0	5	
B	11	1	No Gas	10.515	22.2	18222	15.6	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-2.525	-0.5	14001	2.3	5	
Si	28	1	No Gas	-28.918	-4.1	365128	0.9	10	
Ag	107	1	No Gas	0.004	109.9	660	8.4	2.5	
Cd	111	1	No Gas	0.005	83.6	33	34.6	1	
Sr	88	1	No Gas	-0.029	-16.6	890	16.6	2.5	
Mo	95	1	No Gas	0.010	71.2	110	31.5	2.5	
Sn	118	1	No Gas	-0.132	-16.4	1027	15.2	5	
Sb	121	1	No Gas	0.018	16.3	750	3.5	2.5	
Ba	137	1	No Gas	-0.010	-57.2	187	13.5	2.5	
Tl	205	1	No Gas	0.014	27.0	473	19.2	1	
Tl	203	1	No Gas	0.011	33.5	183	22.0	1	
Pb	208	1	No Gas	-0.031	-7.8	1527	5.5	2.5	
U	238	1	No Gas	0.007	2.6	307	1.9	2.5	
Ca	43	2	He	2.351	222.5	20	50.0	100	
Sb	121	2	He	0.012	104.2	353	24.7	2.5	
Ti	47	2	He	0.037	161.6	13	86.6	2.5	
Cu	63	1	No Gas	-0.546	-5.8	4364	7.8	2.5	
Se	82	1	No Gas	-1.649	-13.2	-660	-6.8	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	511546	0.45	616359	82.99	70	120	
Ge	72	2	He	541331	1.51	581898	93.03	70	120	
Ge	72	1	No Gas	1889408	1.14	1980660	95.39	70	120	
In	115	1	No Gas	2119703	2.22	2157828	98.23	70	120	
Bi	209	1	No Gas	1739564	0.34	1655794	105.06	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	201_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T18:08:39-05:00
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	106.500	0.874	938264	0.88	100	106.5	90	110	
Be	9	1	No Gas	107.239	1.142	246414	0.35	100	107.2	90	110	
V	51	2	He	97.912	0.099	546471	0.09	100	97.9	90	110	
Cr	52	2	He	93.972	0.470	626369	0.65	100	94.0	90	110	
Fe	56	2	He	9678.444	0.157	58015576	0.33	10000	96.8	90	110	
Se	78	2	He	94.135	1.005	8144	1.01	100	94.1	90	110	
As	75	2	He	100.202	0.241	106746	0.29	100	100.2	90	110	
Ca	44	2	He	9538.208	0.631	312022	0.49	10000	95.4	90	110	
Na	23	2	He	10003.491	0.539	10249090	0.50	10000	100.0	90	110	
Mg	24	2	He	9908.288	0.318	5395041	0.43	10000	99.1	90	110	
K	39	2	He	9480.646	1.023	6573987	0.83	10000	94.8	90	110	
Mn	55	2	He	97.838	0.419	427318	0.33	100	97.8	90	110	
Co	59	2	He	98.392	0.567	975271	0.55	100	98.4	90	110	
Ni	60	2	He	98.604	0.440	253853	0.62	100	98.6	90	110	
Cu	63	2	He	94.191	0.290	683885	0.39	100	94.2	90	110	
Zn	66	2	He	99.801	0.367	133512	0.45	100	99.8	90	110	
Al	27	2	He	91.185	3.264	27608	3.22	100	91.2	90	110	
B	11	1	No Gas	499.049	2.475	654886	2.44	500	99.8	90	110	
Al	27	1	No Gas	92.649	2.259	1191184	0.64	100	92.6	90	110	
Si	28	1	No Gas	481.705	2.752	3037058	1.08	5000	9.6	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	100.571	1.901	1481978	1.30	100	100.6	90	110	
Cd	111	1	No Gas	99.655	1.173	282144	0.13	100	99.7	90	110	
Sr	88	1	No Gas	99.144	2.321	2634043	1.18	100	99.1	90	110	
Mo	95	1	No Gas	96.762	2.154	495074	1.11	100	96.8	90	110	
Sn	118	1	No Gas	100.475	1.486	787089	0.46	100	100.5	90	110	
Sb	121	1	No Gas	104.499	3.703	1239423	1.62	100	104.5	90	110	
Ba	137	1	No Gas	101.214	1.879	388667	0.87	100	101.2	90	110	
Tl	205	1	No Gas	101.719	1.734	2373621	0.69	100	101.7	90	110	
Tl	203	1	No Gas	91.193	1.113	938595	0.94	100	91.2	90	110	
Pb	208	1	No Gas	94.478	1.450	3071634	1.13	100	94.5	90	110	
U	238	1	No Gas	96.957	1.240	3074941	1.13	100	97.0	90	110	
Ca	43	2	He	9632.567	5.089	18630	4.97	10000	96.3	90	110	
Sb	121	2	He	94.076	0.150	618918	0.05	100	94.1	90	110	
Ti	47	2	He	97.778	1.896	19644	2.08	100	97.8	90	110	
Cu	63	1	No Gas	97.773	2.229	1177307	0.45	100	97.8	90	110	
Se	82	1	No Gas	97.750	1.891	16452	1.67	100	97.8	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	539661	1.48	616359	87.56	70	120	
Ge	72	2	He	556963	0.19	581898	95.71	70	120	
Ge	72	1	No Gas	1849748	2.24	1980660	93.39	70	120	
In	115	1	No Gas	2029841	1.14	2157828	94.07	70	120	
Bi	209	1	No Gas	1672503	2.05	1655794	101.01	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	202_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T18:10:28-05:00
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	-0.131	-48.0	32414	1.9	0.5	
Be	9	1	No Gas	-0.003	-297.7	27	84.5	0.5	
V	51	2	He	-0.061	-17.9	1028	5.8	2.5	
Cr	52	2	He	-0.022	-69.5	683	14.9	2.5	
Fe	56	2	He	-0.668	-10.3	10554	3.6	100	
Se	78	2	He	-0.075	-232.6	230	6.0	2	
As	75	2	He	-0.002	-1397.9	102	22.9	2.5	
Ca	44	2	He	-17.532	-12.9	627	11.8	100	
Na	23	2	He	32.267	2.6	125985	0.8	100	
Mg	24	2	He	-0.218	-63.8	553	13.3	100	
K	39	2	He	-5.636	-18.1	86842	0.6	100	
Mn	55	2	He	0.029	39.1	357	13.2	2.5	
Co	59	2	He	-0.006	-68.6	67	60.6	2.5	
Ni	60	2	He	-0.642	-1.1	100	17.3	2.5	
Cu	63	2	He	-0.523	-5.9	2767	8.2	2	
Zn	66	2	He	-0.147	-50.6	390	25.3	2.5	
Al	27	2	He	-3.094	-7.0	300	20.8	5	
B	11	1	No Gas	15.060	14.1	25670	10.4	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-2.578	-1.3	13130	2.4	5	
Si	28	1	No Gas	-24.834	-3.1	381401	0.6	10	
Ag	107	1	No Gas	0.002	196.3	623	11.6	2.5	
Cd	111	1	No Gas	-0.005	-36.6	3	173.2	1	
Sr	88	1	No Gas	-0.034	-2.9	737	3.9	2.5	
Mo	95	1	No Gas	0.004	120.6	77	30.1	2.5	
Sn	118	1	No Gas	-0.140	-18.8	943	22.6	5	
Sb	121	1	No Gas	0.018	38.7	750	12.2	2.5	
Ba	137	1	No Gas	-0.031	-29.5	100	36.1	2.5	
Tl	205	1	No Gas	0.006	97.7	280	49.6	1	
Tl	203	1	No Gas	0.003	73.2	90	22.2	1	
Pb	208	1	No Gas	-0.043	-10.1	1143	12.3	2.5	
U	238	1	No Gas	0.002	72.2	143	38.4	2.5	
Ca	43	2	He	3.972	75.6	23	24.7	100	
Sb	121	2	He	0.013	63.2	363	15.2	2.5	
Ti	47	2	He	0.002	3016.2	7	173.2	2.5	
Cu	63	1	No Gas	-0.506	-9.4	4791	11.4	2.5	
Se	82	1	No Gas	-1.574	-105.7	-635	-44.6	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	551248	0.63	616359	89.44	70	120	
Ge	72	2	He	549736	0.27	581898	94.47	70	120	
Ge	72	1	No Gas	1861826	0.85	1980660	94.00	70	120	
In	115	1	No Gas	2073111	0.45	2157828	96.07	70	120	
Bi	209	1	No Gas	1732008	0.34	1655794	104.60	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	213_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T18:31:11-05:00
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	103.865	5.237	1006333	2.42	100	103.9	90	110	
Be	9	1	No Gas	102.430	2.328	258751	0.81	100	102.4	90	110	
V	51	2	He	97.675	1.145	543743	1.49	100	97.7	90	110	
Cr	52	2	He	94.470	0.934	628049	1.29	100	94.5	90	110	
Fe	56	2	He	9757.441	1.773	58330422	0.43	10000	97.6	90	110	
Se	78	2	He	97.559	1.929	8409	1.05	100	97.6	90	110	
As	75	2	He	100.601	1.618	106885	1.11	100	100.6	90	110	
Ca	44	2	He	9488.178	1.351	309569	0.67	10000	94.9	90	110	
Na	23	2	He	10192.383	2.211	10412446	1.24	10000	101.9	90	110	
Mg	24	2	He	10030.396	2.740	5446518	1.88	10000	100.3	90	110	
K	39	2	He	9565.284	1.511	6614321	0.94	10000	95.7	90	110	
Mn	55	2	He	98.562	1.662	429317	0.36	100	98.6	90	110	
Co	59	2	He	97.504	1.869	963835	0.26	100	97.5	90	110	
Ni	60	2	He	98.215	1.305	252187	0.52	100	98.2	90	110	
Cu	63	2	He	93.359	1.790	676079	1.00	100	93.4	90	110	
Zn	66	2	He	99.692	1.999	133006	1.23	100	99.7	90	110	
Al	27	2	He	93.649	3.419	28239	1.61	100	93.6	90	110	
B	11	1	No Gas	538.386	1.776	776562	3.57	500	107.7	90	110	
Al	27	1	No Gas	94.986	0.516	1218465	1.16	100	95.0	90	110	
Si	28	1	No Gas	507.978	1.381	3170548	1.26	5000	10.2	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	98.738	2.282	1471422	0.99	100	98.7	90	110	
Cd	111	1	No Gas	97.265	1.274	278509	0.36	100	97.3	90	110	
Sr	88	1	No Gas	96.924	1.724	2604500	0.58	100	96.9	90	110	
Mo	95	1	No Gas	93.950	0.993	486212	1.00	100	94.0	90	110	
Sn	118	1	No Gas	99.130	0.977	785452	0.48	100	99.1	90	110	
Sb	121	1	No Gas	105.790	2.941	1253130	2.24	100	105.8	90	110	
Ba	137	1	No Gas	99.429	0.673	386200	1.00	100	99.4	90	110	
Tl	205	1	No Gas	102.346	0.893	2381768	1.21	100	102.3	90	110	
Tl	203	1	No Gas	91.584	0.879	940031	1.69	100	91.6	90	110	
Pb	208	1	No Gas	95.983	1.508	3111646	0.84	100	96.0	90	110	
U	238	1	No Gas	96.594	0.799	3054873	1.10	100	96.6	90	110	
Ca	43	2	He	9518.450	1.053	18363	1.56	10000	95.2	90	110	
Sb	121	2	He	94.329	1.338	618931	0.46	100	94.3	90	110	
Ti	47	2	He	95.294	1.641	19094	0.55	100	95.3	90	110	
Cu	63	1	No Gas	97.968	0.647	1178064	1.29	100	98.0	90	110	
Se	82	1	No Gas	100.202	3.659	16850	4.01	100	100.2	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	593504	3.14	616359	96.29	70	120	
Ge	72	2	He	555566	1.76	581898	95.47	70	120	
Ge	72	1	No Gas	1846645	0.70	1980660	93.23	70	120	
In	115	1	No Gas	2052993	1.46	2157828	95.14	70	120	
Bi	209	1	No Gas	1667746	1.84	1655794	100.72	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	214_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T18:32:59-05:00
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	-0.104	-48.9	35648	2.1	0.5	
Be	9	1	No Gas	-0.009	-22.9	15	33.3	0.5	
V	51	2	He	0.043	7.6	1578	1.4	2.5	
Cr	52	2	He	-0.039	-16.7	563	7.2	2.5	
Fe	56	2	He	-0.572	-12.3	10945	4.0	100	
Se	78	2	He	0.101	53.4	241	2.1	2	
As	75	2	He	0.017	69.4	120	10.0	2.5	
Ca	44	2	He	-15.424	-14.8	683	10.8	100	
Na	23	2	He	67.653	3.5	158840	1.4	100	
Mg	24	2	He	0.404	66.1	873	15.9	100	
K	39	2	He	-6.039	-6.3	85178	0.0	100	
Mn	55	2	He	0.073	14.2	540	8.5	2.5	
Co	59	2	He	-0.009	-20.8	40	43.3	2.5	
Ni	60	2	He	-0.644	-2.0	93	34.4	2.5	
Cu	63	2	He	-0.493	-4.4	2937	5.3	2	
Zn	66	2	He	-0.198	-22.6	317	18.5	2.5	
Al	27	2	He	-2.816	-9.4	373	19.7	5	
B	11	1	No Gas	23.959	10.0	40925	6.9	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-2.510	-1.5	13834	1.4	5	
Si	28	1	No Gas	-21.173	-10.9	396709	0.9	10	
Ag	107	1	No Gas	0.027	14.8	987	5.1	2.5	
Cd	111	1	No Gas	0.001	132.9	23	24.7	1	
Sr	88	1	No Gas	0.015	401.3	2057	77.3	2.5	
Mo	95	1	No Gas	0.011	27.5	117	13.1	2.5	
Sn	118	1	No Gas	-0.134	-1.1	987	2.1	5	
Sb	121	1	No Gas	0.003	213.8	563	16.1	2.5	
Ba	137	1	No Gas	0.005	309.4	240	26.0	2.5	
Tl	205	1	No Gas	0.006	20.3	277	9.1	1	
Tl	203	1	No Gas	0.007	49.1	133	26.3	1	
Pb	208	1	No Gas	-0.053	-6.2	793	15.0	2.5	
U	238	1	No Gas	0.002	91.4	140	49.5	2.5	
Ca	43	2	He	-2.938	-180.7	10	100.0	100	
Sb	121	2	He	0.002	357.5	287	17.2	2.5	
Ti	47	2	He	0.037	161.7	13	86.6	2.5	
Cu	63	1	No Gas	-0.425	-12.1	5701	10.6	2.5	
Se	82	1	No Gas	0.761	59.1	-231	-34.5	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	601944	1.56	616359	97.66	70	120	
Ge	72	2	He	540892	0.32	581898	92.95	70	120	
Ge	72	1	No Gas	1843807	2.19	1980660	93.09	70	120	
In	115	1	No Gas	2063166	0.95	2157828	95.61	70	120	
Bi	209	1	No Gas	1712623	1.67	1655794	103.43	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	225_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T18:54:24-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	95.813	0.933	1023026	1.70	100	95.8	90	110	
Be	9	1	No Gas	96.432	0.013	267510	1.11	100	96.4	90	110	
V	51	2	He	98.015	1.480	554588	1.55	100	98.0	90	110	
Cr	52	2	He	94.944	0.734	641647	2.21	100	94.9	90	110	
Fe	56	2	He	9790.136	0.547	59506159	2.56	10000	97.9	90	110	
Se	78	2	He	97.522	1.507	8549	4.15	100	97.5	90	110	
As	75	2	He	101.105	0.437	109222	2.91	100	101.1	90	110	
Ca	44	2	He	9631.684	1.340	319456	2.43	10000	96.3	90	110	
Na	23	2	He	10175.524	0.735	10569473	2.52	10000	101.8	90	110	
Mg	24	2	He	10176.533	1.354	5617575	1.59	10000	101.8	90	110	
K	39	2	He	9564.216	1.298	6722970	1.81	10000	95.6	90	110	
Mn	55	2	He	97.726	0.431	432800	2.53	100	97.7	90	110	
Co	59	2	He	97.692	1.184	981748	1.88	100	97.7	90	110	
Ni	60	2	He	98.139	0.726	256186	2.28	100	98.1	90	110	
Cu	63	2	He	93.662	0.529	689578	2.43	100	93.7	90	110	
Zn	66	2	He	100.423	1.035	136212	2.36	100	100.4	90	110	
Al	27	2	He	92.461	2.331	28366	3.05	100	92.5	90	110	
B	11	1	No Gas	519.713	1.136	823081	1.97	500	103.9	90	110	
Al	27	1	No Gas	93.797	3.393	1239513	1.83	100	93.8	90	110	
Si	28	1	No Gas	497.761	1.003	3210572	1.37	5000	10.0	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	99.963	2.555	1511392	1.14	100	100.0	90	110	
Cd	111	1	No Gas	96.759	1.423	281110	0.54	100	96.8	90	110	
Sr	88	1	No Gas	97.391	1.230	2655502	1.06	100	97.4	90	110	
Mo	95	1	No Gas	94.553	2.001	496430	0.86	100	94.6	90	110	
Sn	118	1	No Gas	98.600	2.065	792635	1.30	100	98.6	90	110	
Sb	121	1	No Gas	102.416	1.413	1249759	1.73	100	102.4	90	110	
Ba	137	1	No Gas	99.302	1.341	391319	0.21	100	99.3	90	110	
Tl	205	1	No Gas	101.489	3.149	2424845	0.87	100	101.5	90	110	
Tl	203	1	No Gas	90.648	3.074	955236	1.13	100	90.6	90	110	
Pb	208	1	No Gas	95.984	3.076	3194958	0.81	100	96.0	90	110	
U	238	1	No Gas	96.299	2.525	3127144	0.67	100	96.3	90	110	
Ca	43	2	He	9704.018	0.336	19033	3.17	10000	97.0	90	110	
Sb	121	2	He	94.909	1.740	632997	1.66	100	94.9	90	110	
Ti	47	2	He	96.899	2.285	19741	3.72	100	96.9	90	110	
Cu	63	1	No Gas	97.510	0.466	1207759	1.10	100	97.5	90	110	
Se	82	1	No Gas	100.329	4.859	17378	5.22	100	100.3	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	651437	1.12	616359	105.69	70	120	
Ge	72	2	He	564801	2.92	581898	97.06	70	120	
Ge	72	1	No Gas	1902132	1.51	1980660	96.04	70	120	
In	115	1	No Gas	2083001	1.42	2157828	96.53	70	120	
Bi	209	1	No Gas	1712889	2.24	1655794	103.45	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	226_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq Date Time	2022-08-31T18:56:12-05:00
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	-0.133	-25.3	36927	0.8	0.5	
Be	9	1	No Gas	-0.002	-96.0	33	17.3	0.5	
V	51	2	He	0.156	8.8	2160	4.3	2.5	
Cr	52	2	He	-0.006	-357.0	767	18.9	2.5	
Fe	56	2	He	-0.159	-145.5	13180	10.5	100	
Se	78	2	He	0.078	555.8	235	13.1	2	
As	75	2	He	0.026	139.1	128	30.9	2.5	
Ca	44	2	He	-3.323	-75.0	1053	8.8	100	
Na	23	2	He	113.631	2.8	201540	0.9	100	CCB Main CR1 Failed
Mg	24	2	He	7.039	17.9	4327	15.5	100	
K	39	2	He	-2.619	-57.3	86329	0.8	100	
Mn	55	2	He	0.121	26.5	733	19.6	2.5	
Co	59	2	He	-0.001	-495.0	117	21.6	2.5	
Ni	60	2	He	-0.608	-2.1	180	16.7	2.5	
Cu	63	2	He	-0.487	-2.2	2937	4.3	2	
Zn	66	2	He	-0.261	-16.6	233	23.6	2.5	
Al	27	2	He	-2.728	-6.9	393	14.0	5	
B	11	1	No Gas	25.358	11.5	44857	8.9	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-2.417	-0.8	15172	1.2	5	
Si	28	1	No Gas	-22.331	-2.6	395632	1.2	10	
Ag	107	1	No Gas	0.042	23.7	1217	12.6	2.5	
Cd	111	1	No Gas	-0.002	-253.9	13	114.6	1	
Sr	88	1	No Gas	0.012	310.9	2000	50.4	2.5	
Mo	95	1	No Gas	0.001	426.3	63	36.5	2.5	
Sn	118	1	No Gas	-0.153	-12.7	840	18.6	5	
Sb	121	1	No Gas	-0.008	-57.7	430	14.0	2.5	
Ba	137	1	No Gas	-0.019	-85.7	147	44.4	2.5	
Tl	205	1	No Gas	0.006	53.7	273	24.9	1	
Tl	203	1	No Gas	0.005	42.6	117	17.8	1	
Pb	208	1	No Gas	-0.002	-5172.1	2548	124.3	2.5	
U	238	1	No Gas	0.003	33.1	173	18.5	2.5	
Ca	43	2	He	11.407	94.5	37	56.8	100	
Sb	121	2	He	-0.001	-1123.7	263	32.3	2.5	
Ti	47	2	He	0.003	1838.5	7	173.2	2.5	
Cu	63	1	No Gas	-0.433	-12.8	5671	11.5	2.5	
Se	82	1	No Gas	-0.679	-237.5	-482	-57.9	2	

QC ISTD Table

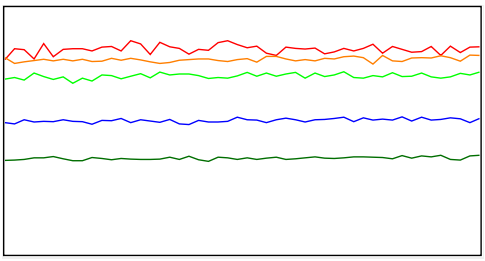
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	628420	0.91	616359	101.96	70	120	
Ge	72	2	He	534031	1.89	581898	91.77	70	120	
Ge	72	1	No Gas	1866446	0.57	1980660	94.23	70	120	
In	115	1	No Gas	2081691	0.32	2157828	96.47	70	120	
Bi	209	1	No Gas	1742353	1.69	1655794	105.23	70	120	

Tune Check Report

Operator Name	ALSHS NoUser
Acq/Data Batch	D:\Agilent\ICPMH\1\DATA\083122A.b
Acq. Date-Time	08/31/2022 09:42:22
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	4159	41593.94		
24	20000	14460	144600.08		
59	50000	27129	271292.55		
115	50000	39510	395100.82		
208	50000	19455	194547.40		

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

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	2.095	5.000	
24	1.427	5.000	
59	1.435	5.000	
115	1.129	5.000	
208	1.549	5.000	

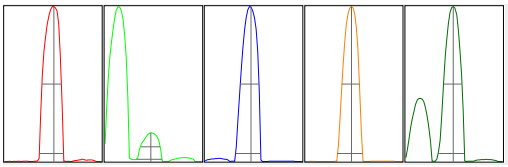
Mass	Background	Background (Required)	Background (Flag)
9	1.000		
24	0.300		
59	0.400		
115	1.500		
208	4.200		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 0.479 %
Doubly Charged	70 / 140 0.905 %

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	4050.93	9.05	8.90 - 9.10	
24	14603.70	23.95	23.90 - 24.10	
59	27843.49	58.95	58.90 - 59.10	
115	39894.68	114.95	114.90 - 115.10	
208	19375.83	208.00	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.738		
24	0.60	0.781		
59	0.58	0.769		
115	0.54	0.762		
208	0.57	0.807		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.90 L/min	Dilution Gas	0.15 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.4 V	Deflect	13.4 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-70 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	190 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9994	QP Bias	-3.0 V
Mass Offset	126	Axis Offset	0.02		

Hardware Settings

Torch

Torch H	0.1 mm	Torch V	-0.3 mm

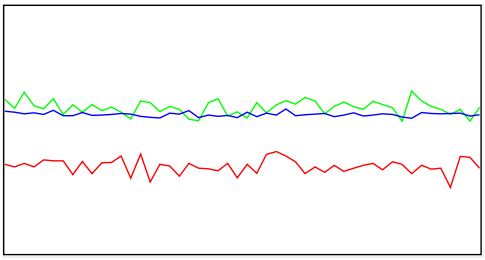
EM

Discriminator	4.4 mV	Analog HV	2111 V	Pulse HV	1065 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	176	1759.71		
24	1000	591	5910.05		
59	20000	11253	112528.54		

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

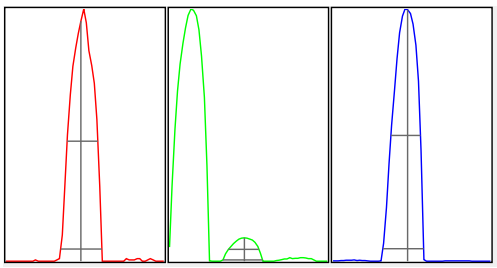
Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	8.420	5.000	Fail
24	4.859	5.000	
59	1.442	5.000	

Mass	Background	Background (Required)	Background (Flag)
9	0.400		
24	0.000		
59	0.100		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 0.267 %
Doubly Charged	70 / 140 0.973 %

Resolution/Axis



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

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	178.02	8.95	8.90 - 9.10	
24	611.41	23.95	23.90 - 24.10	
59	11361.29	58.95	58.90 - 59.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.57	0.772		
24	0.57	0.743		

Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
59	0.55	0.760		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.90 L/min	Dilution Gas	0.15 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.8 V	Deflect	0.4 V
Extract 2	-195.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-85 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	4.2 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9994	QP Bias	-15.0 V
Mass Offset	126	Axis Offset	0.02		

Hardware Settings

Torch

Torch H	0.1 mm	Torch V	-0.3 mm

EM

Discriminator	4.4 mV	Analog HV	2111 V	Pulse HV	1065 V

HS22080927 ALS Kelso Report
K2210038_Tier IV

ALS WO# HS22080927

ALS Environmental
ALS Group USA, Corp
1317 South 13th Avenue
Kelso, WA 98626
T : +1 360 577 7222
F : +1 360 636 1068
www.alsglobal.com

September 02, 2022 **Analytical Report for Service Request No:** K2210038

Dane Wacasey
ALS Group USA, Corp.
10450 Stancliff Road
Suite 210
Houston, TX 77099-4338

RE: HS22080927

Dear Dane,

Enclosed are the results of the sample(s) submitted to our laboratory August 31, 2022
For your reference, these analyses have been assigned our service request number **K2210038.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3260. You may also contact me via email at Luke.Rahn@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Luke Rahn
Project Manager

ALS Environmental
ALS Group USA, Corp
1317 South 13th Avenue
Kelso, WA 98626
T : +1 360 577 7222
F : +1 360 636 1068
www.alsglobal.com

Table of Contents

Acronyms
Qualifiers
State Certifications, Accreditations, And Licenses
Case Narrative
Chain of Custody
Metals
Raw Data
    Metals

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
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.
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.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjlabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water-	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.
Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Case Narrative

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

1317 South 13th Ave, Kelso, WA 98626 | 1-360-577-7222 | www.alsglobal.com

Client: ALS Environmental - US
Project: HS22080927
Sample Matrix: Ground Water

Service Request: K2210038
Date Received: 08/31/2022

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Seven ground water samples were received for analysis at ALS Environmental on 08/31/2022. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

Approved by _____ Date 09/02/2022

Chain of Custody

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

K2210038

~~K2204497~~ =//

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:** **19669**

SUBCONTRACT TO:

ALS Environmental Kelso
1317 S. 13th Avenue
Kelso, WA 98626

Phone: +1 360 501 3312

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Dane J. Wacasey
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	Dane.Wacasey@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:	HS22080927
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS22080927-01**	**AWD3_081622**	**Groundwater**	**16 Aug 2022 06:55**
	Mercury by 7470, DOD Tier II & IV;			09 Sep 2022
2.	**HS22080927-02**	**AWD3_081622_a**	**Groundwater**	**16 Aug 2022 06:55**
	Mercury by 7470, DOD Tier II & IV;			09 Sep 2022
3.	**HS22080927-03**	**102_081622**	**Groundwater**	**16 Aug 2022 07:45**
	Mercury by 7470, DOD Tier II & IV;			09 Sep 2022
4.	**HS22080927-04**	**102_081622_a**	**Groundwater**	**16 Aug 2022 07:45**
	Mercury by 7470, DOD Tier II & IV;			09 Sep 2022
5.	**HS22080927-06**	**18WW03_081622**	**Groundwater**	**16 Aug 2022 09:30**
	Mercury by 7470, DOD Tier II & IV;			09 Sep 2022
6.	**HS22080927-09**	**CO3_081622**	**Groundwater**	**16 Aug 2022 11:45**
	Mercury by 7470, DOD Tier II & IV;			09 Sep 2022
7.	**HS22080927-10**	**18WW18_081622**	**Groundwater**	**16 Aug 2022 12:40**
	Mercury by 7470, DOD Tier II & IV;			09 Sep 2022

Comments: Please analyze for 7470 Hg. DoD QSM 5.3; Tier II and Tier IV PDF; ~~EQUIS EDD (Bhate)~~ EXCEL w/ DL/LOD/LOQ
Send report and EDD to the emails shown above.

Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **19669**

QC Level: DOD IV (DoD Data Package)

Relinquished By:	CHRISTA 8/30/22	Date/Time:	8/30/22 1800
Received By:		Date/Time:	8/31/22 1030
Cooler ID(s):		Temperature(s):	

K2210038 PM LR

Cooler Receipt and Preservation Form

Client AS Houston Service Request ~~K22~~ 04447

Received: 8/31/22 Opened: 8/31/22 By: H Unloaded: 8/31/22 By: H

1. Samples were received via? *USPS* (*Fed Ex*) *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) (*Cooler*) *Box* *Envelope* *Other*_____ *NA*
3. Were custody seals on coolers? NA (N) If yes, how many and where? 1 front
   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp indicate with "X"	PM Notified if out of temp	Tracking Number NA	Filed
	21.9	IR01				578919974960	

4. Was a Temperature Blank present in cooler? NA Y (N) If yes, notate the temperature in the appropriate column above:
   If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
5. Were samples received within the method specified temperature ranges? NA Y (N)
   If no, were they received on ice and same day as collected? If not, notate the cooler # below and notify the PM. NA (Y) N

If applicable, tissue samples were received: *Frozen* *Partially Thawed* *Thawed*

6. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* No Cooling
7. Were custody papers properly filled out (ink, signed, etc.)? NA (Y) N
8. Were samples received in good condition (unbroken) NA (Y) N
9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA (Y) N
10. Did all sample labels and tags agree with custody papers? NA (Y) N
11. Were appropriate bottles/containers and volumes received for the tests indicated? NA (Y) N
12. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA (Y) N
13. Were VOA vials received without headspace? *Indicate in the table below.* (NA) Y N
14. Was C12/Res negative? (NA) Y N
15. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? (NA) Y N Under filled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: Temp Not an issue. Samples for Metals analysis.

1/13/22 *Page* ____ *of* ____

Metals

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	K2210038
Project:	HS22080927	**Date Collected:**	08/16/22 06:55
Sample Matrix:	Ground Water	**Date Received:**	08/31/22 10:30
Sample Name:	AWD3_081622	**Basis:**	NA
Lab Code:	K2210038-001		

Total Metals

Analyte Name	Analysis Method	Result	Units	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	7470A	ND U	ug/L	0.20	0.05	0.02	1	09/02/22 12:03	09/01/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	K2210038
Project:	HS22080927	**Date Collected:**	08/16/22 06:55
Sample Matrix:	Ground Water	**Date Received:**	08/31/22 10:30
Sample Name:	AWD3_081622_a	**Basis:**	NA
Lab Code:	K2210038-002		

Total Metals

Analyte Name	Analysis Method	Result	Units	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	7470A	ND U	ug/L	0.20	0.05	0.02	1	09/02/22 12:13	09/01/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	K2210038
Project:	HS22080927	**Date Collected:**	08/16/22 07:45
Sample Matrix:	Ground Water	**Date Received:**	08/31/22 10:30
Sample Name:	102_081622	**Basis:**	NA
Lab Code:	K2210038-003		

Total Metals

Analyte Name	Analysis Method	Result	Units	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	7470A	**0.08 J**	ug/L	0.20	0.05	0.02	1	09/02/22 12:14	09/01/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	K2210038
Project:	HS22080927	**Date Collected:**	08/16/22 07:45
Sample Matrix:	Ground Water	**Date Received:**	08/31/22 10:30
Sample Name:	102_081622_a	**Basis:**	NA
Lab Code:	K2210038-004		

Total Metals

Analyte Name	Analysis Method	Result	Units	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	7470A	**0.08 J**	ug/L	0.20	0.05	0.02	1	09/02/22 12:16	09/01/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	K2210038
Project:	HS22080927	**Date Collected:**	08/16/22 09:30
Sample Matrix:	Ground Water	**Date Received:**	08/31/22 10:30
Sample Name:	18WW03_081622	**Basis:**	NA
Lab Code:	K2210038-005		

Total Metals

Analyte Name	Analysis Method	Result	Units	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	7470A	ND U	ug/L	0.20	0.05	0.02	1	09/02/22 12:18	09/01/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	K2210038
Project:	HS22080927	**Date Collected:**	08/16/22 11:45
Sample Matrix:	Ground Water	**Date Received:**	08/31/22 10:30
Sample Name:	CO3_081622	**Basis:**	NA
Lab Code:	K2210038-006		

Total Metals

Analyte Name	Analysis Method	Result	Units	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	7470A	ND U	ug/L	0.20	0.05	0.02	1	09/02/22 12:19	09/01/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	K2210038
Project:	HS22080927	**Date Collected:**	08/16/22 12:40
Sample Matrix:	Ground Water	**Date Received:**	08/31/22 10:30
Sample Name:	18WW18_081622	**Basis:**	NA
Lab Code:	K2210038-007		

Total Metals

Analyte Name	Analysis Method	Result	Units	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	7470A	ND U	ug/L	0.20	0.05	0.02	1	09/02/22 12:21	09/01/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	K2210038
Project:	HS22080927	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	KQ2214913-01		

Total Metals

Analyte Name	Analysis Method	Result	Units	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	7470A	ND U	ug/L	0.20	0.05	0.02	1	09/02/22 12:00	09/01/22	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	K2210038
Project:	HS22080927	**Date Collected:**	08/16/22
Sample Matrix:	Ground Water	**Date Received:**	08/31/22
		Date Analyzed:	09/2/22
		Date Extracted:	09/1/22

Duplicate Matrix Spike Summary
Total Metals

Sample Name:	AWD3_081622	**Units:**	ug/L
Lab Code:	K2210038-001	**Basis:**	NA
Analysis Method:	7470A		
Prep Method:	Method		

		Matrix Spike			Duplicate Matrix Spike					
		KQ2214913-03			KQ2214913-04					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Mercury	ND U	4.80	5.00	96	4.75	5.00	95	82-119	1	20

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

QA/QC Report

Client: ALS Environmental - US
Project: HS22080927
Sample Matrix: Ground Water

Service Request: K2210038
Date Analyzed: 09/02/22

Lab Control Sample Summary
Total Metals

Units:ug/L
Basis:NA

Lab Control Sample
KQ2214913-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Mercury	7470A	4.84	5.00	97	82-119

ALS Group USA, Corp.
dba ALS Environmental

Prep Summary Report

Client: ALS Environmental - US **Service Request:** K2210038
Project: HS22080927
Sample Matrix: Ground Water

Metals

Prep Method: Method **Extraction Lot:** 405732
Analytical Method: 7470A **Extraction Date:** 09/01/22 14:07

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
AWD3_081622	K2210038-001	8/16/22	8/31/22	10.0000 mL	10 mL	
AWD3_081622_a	K2210038-002	8/16/22	8/31/22	10.0000 mL	10 mL	
102_081622	K2210038-003	8/16/22	8/31/22	10.0000 mL	10 mL	
102_081622_a	K2210038-004	8/16/22	8/31/22	10.0000 mL	10 mL	
18WW03_081622	K2210038-005	8/16/22	8/31/22	10.0000 mL	10 mL	
CO3_081622	K2210038-006	8/16/22	8/31/22	10.0000 mL	10 mL	
18WW18_081622	K2210038-007	8/16/22	8/31/22	10.0000 mL	10 mL	
Method Blank	KQ2214913-01MB	NA	NA	10.0000 mL	10 mL	
Lab Control Sample	KQ2214913-02LCS	NA	NA	10.0000 mL	10 mL	
Matrix Spike	KQ2214913-03MS	8/16/22	8/31/22	10.0000 mL	10 mL	
Duplicate Matrix Spike	KQ2214913-04DMS	8/16/22	8/31/22	10.0000 mL	10 mL	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US **Service Request:** K2210038
Project: HS22080927

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Concentration Units: ug/L

Sample ID / Analyte	Method	Analysis Batch:	Result	True Value	% Rec	% Rec. Limits
ICV 09/02/22 11:03						
Mercury	7470A	776316	5.00	5.00	100	90-110
CCV 09/02/22 11:08						
Mercury	7470A	776316	5.13	5.00	103	90-110
CCV 09/02/22 11:27						
Mercury	7470A	776316	5.19	5.00	104	90-110
CCV 09/02/22 11:47						
Mercury	7470A	776316	5.27	5.00	105	90-110
CCV 09/02/22 12:06						
Mercury	7470A	776316	5.29	5.00	106	90-110
CCV 09/02/22 12:54						
Mercury	7470A	776316	5.24	5.00	105	90-110

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US **Service Request:** K2210038
Project: HS22080927

INITIAL AND CONTINUING CALIBRATION BLANKS

Concentration Units: ug/L

Sample ID / Analyte	Method	Analysis Batch:	Result	C
ICB 09/02/22 11:05				
Mercury	7470A	776316	0.02	U
CCB 09/02/22 11:10				
Mercury	7470A	776316	0.02	U
CCB 09/02/22 11:29				
Mercury	7470A	776316	0.02	U
CCB 09/02/22 11:48				
Mercury	7470A	776316	0.02	U
CCB 09/02/22 12:08				
Mercury	7470A	776316	0.02	U
CCB 09/02/22 12:55				
Mercury	7470A	776316	0.02	U

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US **Service Request:** K2210038
Project: HS22080927

LOW LEVEL INITIAL AND LOW LEVEL CONTINUING CALIBRATION VERIFICATION

Concentration Units: ug/L

Sample ID / Analyte	Method	Analysis Batch:	Result	True Value	% Rec	% Rec. Limits	Analysis Date
LLICV							
Mercury	7470A	776316	0.20	0.2	100	50-150	09/02/22 11:06

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US **Service Request:** K2210038
Project: HS22080927

POST SPIKE SAMPLE RECOVERY

Concentration Units: ug/L

Sample ID / Analyte	Method	Analysis Batch:	Initial Sample Result	Post Spike Result	True Value	% Rec	% Rec. Limits	Analysis Date
K2210038-001A								
Mercury	7470A	776316	0.02 U	5.29	5.00	106	80-120	09/02/22 12:11

Results flagged with a pound (#) indicate the control criteria is not applicable.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US **Service Request:** K2210038
Project: HS22080927/

Detection Limits

Instrument: K-CVAA-04 **Matrix:** Ground Water

Analyte	Wavelength (nm)	Units	LOQ	LOD	MDL
Mercury	253	ug/L	0.2	0.05	0.02

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US **Service Request:** K2210038
Project: HS22080927/

Analysis Run Log

Instrument ID: **K-CVAA-04** **Analytical BatchID:** **776316**

Sample	Dilution Factor	Date/Time	Hg
ZZZZZZ	1	09/02/22 10:53	
ZZZZZZ	1	09/02/22 10:55	
ZZZZZZ	1	09/02/22 10:57	
ZZZZZZ	1	09/02/22 10:58	
ZZZZZZ	1	09/02/22 11:00	
ZZZZZZ	1	09/02/22 11:01	
ICV1	1	09/02/22 11:03	X
ICB1	1	09/02/22 11:05	X
LLICV1	1	09/02/22 11:06	X
CCV1	1	09/02/22 11:08	X
CCB1	1	09/02/22 11:10	X
ZZZZZZ	1	09/02/22 11:11	
ZZZZZZ	1	09/02/22 11:13	
ZZZZZZ	5	09/02/22 11:14	
ZZZZZZ	5	09/02/22 11:16	
ZZZZZZ	1	09/02/22 11:18	
ZZZZZZ	1	09/02/22 11:19	
ZZZZZZ	1	09/02/22 11:21	
ZZZZZZ	1	09/02/22 11:23	
ZZZZZZ	1	09/02/22 11:24	
ZZZZZZ	1	09/02/22 11:26	
CCV2	1	09/02/22 11:27	X
CCB2	1	09/02/22 11:29	X
ZZZZZZ	1	09/02/22 11:31	
ZZZZZZ	1	09/02/22 11:32	
ZZZZZZ	1	09/02/22 11:34	
ZZZZZZ	1	09/02/22 11:35	
ZZZZZZ	1	09/02/22 11:37	
ZZZZZZ	1	09/02/22 11:39	
ZZZZZZ	1	09/02/22 11:40	
ZZZZZZ	1	09/02/22 11:42	
ZZZZZZ	1	09/02/22 11:44	
ZZZZZZ	1	09/02/22 11:45	
CCV3	1	09/02/22 11:47	X
CCB3	1	09/02/22 11:48	X
ZZZZZZ	1	09/02/22 11:50	
ZZZZZZ	1	09/02/22 11:52	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US **Service Request:** K2210038
Project: HS22080927/

Analysis Run Log

Instrument ID: **K-CVAA-04** **Analytical BatchID:** **776316**

Sample	Dilution Factor	Date/Time	Hg
ZZZZZZ	1	09/02/22 11:53	
ZZZZZZ	1	09/02/22 11:55	
ZZZZZZ	1	09/02/22 11:57	
ZZZZZZ	1	09/02/22 11:58	
KQ2214913-01MB	1	09/02/22 12:00	X
KQ2214913-02LCS	1	09/02/22 12:01	X
K2210038-001	1	09/02/22 12:03	X
K2210038-001MS	1	09/02/22 12:05	X
CCV4	1	09/02/22 12:06	X
CCB4	1	09/02/22 12:08	X
K2210038-001DMS	1	09/02/22 12:10	X
K2210038-001PS	1	09/02/22 12:11	X
K2210038-002	1	09/02/22 12:13	X
K2210038-003	1	09/02/22 12:14	X
K2210038-004	1	09/02/22 12:16	X
K2210038-005	1	09/02/22 12:18	X
K2210038-006	1	09/02/22 12:19	X
K2210038-007	1	09/02/22 12:21	X
ZZZZZZ	1	09/02/22 12:22	
ZZZZZZ	1	09/02/22 12:24	
ZZZZZZ	1	09/02/22 12:26	
CCV5	1	09/02/22 12:54	X
CCB5	1	09/02/22 12:55	X

Raw Data

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Metals

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

CVAA Mercury Water Data Review Form

K-CVAA-04

Element:	Hg		
Analysis Lot #:	090222A HG4		
Starlims #:	776316		
Cal. STD/CCV Source:	HG3-85-L		
Pipette IDs:	HG-41585305/HG-38883934		
16mL Tube Lot #:	P7554803		
KMnO4:	HG3-85-B	Expiration Date:	8/29/2023
K2S2O8:	HG3-84-L	Expiration Date:	8/4/2023
NH2OH-HCl/NaCl	HG3-84-T	Expiration Date:	8/25/2023
SnCl2/HCl:	HG3-85-E	Expiration Date:	7/1/2023

Service Request Numbers:

K2209972, K2210016, K2210034, K2210036, K2210037, K2210038, K2210039, K2210049, K2210050

	Yes	No	NA
1) Appropriate standardization completed	X		
2) ICV within 10% of true value	X		
3) CCVs in control (+/- 10%)	X		
4) CCBs and or ICBs below MRL	X		
5) CCV/CCB check run every 10 samples	X		
6) All reported samples within calibration range	X		
7) Calculations correct	X		

Comments:

Data reviewed against service request(s) to ensure no samples were omitted: _____ (Initials)

Primary Reviewed By: _____ Date: 9/2/22

Secondary Reviewed By: _____ Date: 9/2/22

Data Review Form

Instrument ID#: **K-CVAA-04**
DataFile Name: **R:\ICP\WIP\DATA\K-CVAA-04 (M-7600)\090222A HG4.csv**
RUNNO: **776316**

K2209972

No exceptions to report.

K2210016

No exceptions to report.

K2210034

No exceptions to report.

K2210036

No exceptions to report.

K2210037

No exceptions to report.

K2210038

No exceptions to report.

K2210039

No exceptions to report.

K2210049

No exceptions to report.

K2210050

No exceptions to report.

Primary Approver: 9/2/22
Secondary Approver: 9/2/22

CVAA Hg ANALYTICAL WORKSHEET

Method: 7470	Cal. Inter. Std* (100ppb): HG3-85-L 2nd Source Inter Std** (1ppm): HG3-84-V

Analysis For: Hg **DATA**

Pos.	SAMPLE NUMBER	Measured (µg/L)	Dilution Factor	Recoveries (ICV, CCV, LCS, MS)		Comments:
1	Cal. Blk.	0.000	~	~		
2	Std 0.2*	0.200	~	(0.1-50mL)		
3	Std 0.5*	0.500	~	(0.25-50mL)		
4	Std 1.0*	1.000	~	(0.5-50mL)		
5	Std 5.0*	5.000	~	(2.5-50mL)		
6	Std 10.0*	10.000	~	(5.0-50mL)		
7	ICV1**	5.002	~	100%		
8	ICB1	-0.014	~			
9	LLICV1*	0.199	~	100%		
10	CCV1*	5.126	~	103%		
11	CCB1	-0.009	~			
12	KQ2214912-01	-0.002	~			
13	KQ2214912-02	4.657	~	93%		
14	K2209972-001 5X	-0.007	5		Cx=	-0.005
15	K2209972-001A 5X	3.300	5	66%		
16	~~NS~~	~~-0.063~~	~			9/2/22 ~~SA~~
17	K2210016-005	0.001	~			
18	K2210034-001	0.006	~			
19	KQ2214912-03	4.640	~	93%		
20	KQ2214912-04	4.621	~	92%		
21	K2210034-001A	5.391	~	108%		
22	CCV2	5.185	~	104%		
23	CCB2	-0.010	~			
24	K2210034-002	0.003	~			
25	K2210034-003	0.003	~			
26	K2210034-004	0.001	~			
27	K2210036-001	0.005	~			
28	K2210036-002	0.006	~			
29	K2210036-003	0.003	~			
30	K2210036-004	0.005	~			
31	K2210036-005	0.019	~			
32	K2210037-001	0.003	~			

Comments:

CVAA Hg ANALYTICAL WORKSHEET

Analysis For: Hg **DATA**

Pos.	SAMPLE NUMBER	Measured (µg/L)	Dilution Factor	Recoveries (ICV, CCV, LCS, MS)		Comments:
33	K2210037-002	0.013	~			
34	CCV3	5.266	~	105%		
35	CCB3	-0.008	~			
36	K2210037-003	0.006	~			
37	K2210037-004	0.001	~			
38	K2210037-005	0.003	~			
39	K2210039-001	0.004	~			
40	K2210039-002	0.022	~			
41	K2210039-003	-0.002	~			
42	KQ2214913-01	0.002	~			
43	KQ2214913-02	4.835	~	97%		
44	K2210038-001	-0.003	~			
45	KQ2214913-03	4.799	~	96%		
46	CCV4	5.285	~	106%		
47	CCB4	-0.011	~			
48	KQ2214913-04	4.750	~	95%		
49	K2210038-001A	5.287	~	106%		
50	K2210038-002	-0.001	~			
51	K2210038-003	0.078	~			
52	K2210038-004	0.080	~			
53	K2210038-005	0.002	~			
54	K2210038-006	0.004	~			
55	K2210038-007	0.004	~			
56	K2210049-001	0.005	~			
57	K2210050-001	0.003	~			
58	~~CCV5~~	~~0.169~~	~			Solution Low 9/26/22
59	CCV5	5.241	~	105%		
60	CCB5	-0.011	~			
61						
62						
63						
64						

Comments:

Soil/Tissue Spike Level:

Method	Spike Level	MRL	LCS Limit	MS Limit	RPD	Post-Spike @ 5ppb
7470A Water	5.0 µg/L	0.2 µg/L	80-120%	75-125%	20%	+/- 20%
245.1 Water	5.0 µg/L	0.2 µg/L	85-115%	70-130%	20%	+/- 20%
7470A TCLP	5.0 µg/L	1.0 µg/L	80-120%	75-125%	20%	+/- 20%
7471A Soil LCSS	7.1mg/kg	0.02 mg/kg	51-149%	80-120%	20%	+/- 20%
7471A Tissue Dorm	0.41 mg/kg	0.02 mg/kg	68-136%	80-120%	20%	+/- 20%

Report Generated By Teledyne Leeman QuickTrace

Analyst: alkls.nouser

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\090222B HG4.wszf

Creation Date: 9/2/2022 10:10:58 AM

Comment:

Results

Sample Name	Aliq. Vol.	Diln. Vol	DF	Type	Spike Vol	Conc (ug/L)	% Recovery	µAbs	%RSD	Residual	Flags	Wt. (g)	Vol (ml)
Calibration Blank				STD		0.000		14	168.27				
		1.0000					N/A						
Replicates	26.3	-14.9	39.1	5.8									
Standard #1 (0.2 ug/L)				STD		0.200		1504	2.29	-1.47%			
		1.0000					N/A						
Replicates	1455.7	1506.0	1536.7	1516.0									
Standard #2 (1 ug/L)				STD		0.500		3703	1.42	-2.40%			
		1.0000					N/A						
Replicates	3659.0	3660.4	3724.2	3767.1									
Standard #3 (2.5 ug/L)				STD		1.000		7425	1.77	-1.95%			
		1.0000					N/A						
Replicates	7245.5	7411.8	7505.2	7538.5									
Standard #4 (5 ug/L)				STD		5.000		38627	1.54	2.17%			
		1.0000					N/A						
Replicates	37826.6	38542.1	38973.6	39166.1									
Standard #5 (10 ug/L)				STD		10.000		75214	1.73	-0.52%			
		1.0000					N/A						
Replicates	73530.6	74911.9	75896.4	76517.3									
ICV1				ICV		5.002		37826	1.95				
		1.0000					100.04						
Replicates	36868.7	37669.2	38193.4	38571.4									
ICB1				ICB		-0.014		-89	30.10				
		1.0000					N/A						
Replicates	-63.8	-63.7	-100.2	-127.4									
LLICV1				CRDL		0.199		1518	3.24				
		1.0000					99.49						
Replicates	1470.4	1492.3	1528.1	1582.0									

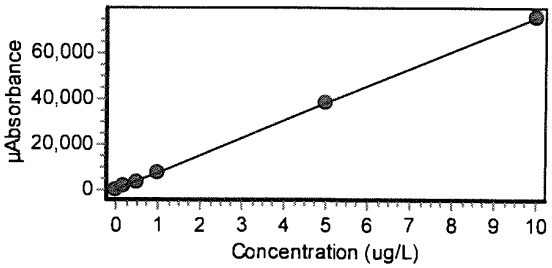
Calibration

Equation: Abs = 7558.940x + 14.077

R2: 0.99979 RSE: 2.36%

SEE: 532.8993

Flags:



Sample Name	Type	Conc (ug/L)	µAbs	%RSD	Residual Flags	Wt. (g)	Vol (ml)
Aliq. Vol. Diln. Vol DF	Spike Vol	% Recovery					
CCV1	CCV	5.126	38759	1.64			
1.0000		102.51					
Replicates	37917.4	38652.1	39073.6	39391.4			
CCB1	CCB	-0.009	-54	48.00			
1.0000		N/A					
Replicates	-50.1	-88.6	-64.3	-11.1			
KQ2214912-01	UNK	-0.002	0	190.90			
1.0000		N/A					
Replicates	13.9	23.4	0.5	-38.0			
KQ2214912-02	UNK	4.657	35215	1.46			
1.0000		N/A					
Replicates	34558.0	35098.5	35440.7	35764.2			
K2209972-001 5X	UNK	-0.007	-39	38.29			
1.0000		N/A					
Replicates	-46.6	-42.2	-9.6	-55.9			
K2209972-001A 5X	UNK	3.300	24957	1.64			
1.0000		N/A					
Replicates	24427.6	24869.0	25166.0	25367.0			
NS	UNK	-0.063	-462	4.81			
1.0000		N/A					
Replicates	-480.6	-432.7	-454.0	-479.4			
K2210016-005	UNK	0.001	22	353.07			
1.0000		N/A					
Replicates	60.7	5.5	6.4	13.5			
K2210034-001	UNK	0.006	61	64.52			
1.0000		N/A					
Replicates	27.0	43.7	85.0	87.4			
KQ2214912-03	UNK	4.640	35088	1.64			
1.0000		N/A					
Replicates	34351.8	34931.3	35422.5	35648.0			
KQ2214912-04	UNK	4.621	34941	1.37			
1.0000		N/A					
Replicates	34359.0	34777.0	35164.8	35463.8			
K2210034-001A	UNK	5.391	40763	1.42			
1.0000		N/A					
Replicates	40024.0	40611.1	41071.8	41343.4			
CCV2	CCV	5.185	39205	2.78			
1.0000		103.69					
Replicates	37808.2	38895.7	39878.0	40238.0			
CCB2	CCB	-0.010	-64	30.34			
1.0000		N/A					
Replicates	-32.6	-81.1	-83.4	-58.9			

9/2/22

Sample Name	Aliq. Vol.	Diln. Vol	DF	Type	Spike Vol	Conc (ug/L)	% Recovery	µAbs	%RSD	Residual	Flags	Wt. (g)	Vol (ml)
K2210034-002				UNK		0.003		33	124.28				
		1.0000					N/A						
Replicates	30.4	55.9	45.8	1.1									
K2210034-003				UNK		0.003		37	126.24				
		1.0000					N/A						
Replicates	80.0	22.2	26.7	18.9									
K2210034-004				UNK		0.001		20	572.22				
		1.0000					N/A						
Replicates	-27.3	41.7	36.5	27.7									
K2210036-001				UNK		0.005		51	25.48				
		1.0000					N/A						
Replicates	64.1	41.7	48.2	50.7									
K2210036-002				UNK		0.006		63	80.86				
		1.0000					N/A						
Replicates	7.5	62.5	87.2	95.7									
K2210036-003				UNK		0.003		40	90.54				
		1.0000					N/A						
Replicates	63.6	15.5	24.8	56.3									
K2210036-004				UNK		0.005		49	80.99				
		1.0000					N/A						
Replicates	12.5	40.9	71.9	71.3									
K2210036-005				UNK		0.019		154	18.86				
		1.0000					N/A						
Replicates	189.9	147.2	153.4	126.4									
K2210037-001				UNK		0.003		39	108.38				
		1.0000					N/A						
Replicates	15.0	16.1	62.1	61.6									
K2210037-002				UNK		0.013		115	26.79				
		1.0000					N/A						
Replicates	146.8	91.4	93.9	128.5									
CCV3				CCV		5.266		39822	1.71				
		1.0000					105.33						
Replicates	38917.6	39708.3	40187.3	40473.3									
CCB3				CCB		-0.008		-50	45.33				
		1.0000					N/A						
Replicates	-7.6	-56.3	-72.8	-62.5									
K2210037-003				UNK		0.006		59	84.65				
		1.0000					N/A						
Replicates	32.3	20.5	95.6	85.6									
K2210037-004				UNK		0.001		24	236.03				
		1.0000					N/A						
Replicates	55.4	21.1	-4.4	25.6									

Sample Name	Aliq. Vol.	Diln. Vol	DF	Type	Spike Vol	Conc (ug/L)	% Recovery	µAbs	%RSD	Residual Flags	Wt. (g)	Vol (ml)
K2210037-005				UNK		0.003		37	130.02			
		1.0000				N/A						
Replicates	11.3		11.3		67.6		59.4					
K2210039-001				UNK		0.004		42	99.24			
		1.0000				N/A						
Replicates	84.0		33.2		26.2		25.8					
K2210039-002				UNK		0.022		184	25.35			
		1.0000				N/A						
Replicates	147.8		146.5		213.2		228.7					
K2210039-003				UNK		-0.002		2	330.06			
		1.0000				N/A						
Replicates	58.3		-8.4		-10.4		-29.9					
KQ2214913-01				UNK		0.002		26	240.38			
		1.0000				N/A						
Replicates	6.5		3.0		29.5		64.0					
KQ2214913-02				UNK		4.835		36563	1.08			
		1.0000				N/A						
Replicates	36052.1		36493.7		36728.8		36979.0					
K2210038-001				UNK		-0.003		-7	106.94			
		1.0000				N/A						
Replicates	-14.9		-21.7		-18.2		26.6					
KQ2214913-03				UNK		4.799		36286	1.20			
		1.0000				N/A						
Replicates	35718.9		36197.1		36506.8		36722.9					
CCV4				CCV		5.285		39966	1.59			
		1.0000				105.71						
Replicates	39134.0		39855.2		40257.4		40618.9					
CCB4				CCB		-0.011		-67	40.99			
		1.0000				N/A						
Replicates	-32.7		-50.7		-74.0		-109.4					
KQ2214913-04				UNK		4.750		35917	1.26			
		1.0000				N/A						
Replicates	35333.9		35813.5		36155.7		36366.2					
K2210038-001A				UNK		5.287		39980	1.17			
		1.0000				N/A						
Replicates	39334.4		39957.2		40238.0		40389.2					
K2210038-002				UNK		-0.001		8	402.93			
		1.0000				N/A						
Replicates	16.6		-23.8		2.8		35.8					
K2210038-003				UNK		0.078		607	4.91			
		1.0000				N/A						
Replicates	632.5		615.4		614.4		565.0					

Sample Name	Aliq. Vol.	Diln. Vol	DF	Type	Spike Vol	Conc (ug/L)	% Recovery	µAbs	%RSD	Residual	Flags	Wt. (g)	Vol (ml)
K2210038-004				UNK		0.080		618	3.99				
			1.0000				N/A						
Replicates	600.7		622.7		597.6		649.6						
K2210038-005				UNK		0.002		29	323.24				
			1.0000				N/A						
Replicates	71.6		73.1		-8.4		-18.4						
K2210038-006				UNK		0.004		42	70.77				
			1.0000				N/A						
Replicates	32.6		42.2		23.4		68.7						
K2210038-007				UNK		0.004		41	89.78				
			1.0000				N/A						
Replicates	49.2		40.9		64.5		8.0						
K2210049-001				UNK		0.005		51	38.02				
			1.0000				N/A						
Replicates	59.4		34.7		44.4		65.5						
K2210050-001				UNK		0.003		39	61.55				
			1.0000				N/A						
Replicates	44.6		45.9		48.4		16.1						
CCV5				CCV		0.169		1290	22.27		Q		9/2/22
			1.0000				3.38						
Replicates	927.1		1201.3		1504.5		1528.3						
CCV5				CCV		5.241		39631	1.80				
			1.0000				104.82						
Replicates	38724.5		39459.7		39953.9		40387.2						
CCB5				CCB		-0.011		-73	24.81				
			1.0000				N/A						
Replicates	-78.4		-65.5		-48.2		-99.3						

Preparation Information Benchsheet

Prep Run#: 405730
Team: Metals/JHINSON
Number of Copies to make: 6

Prep WorkFlow: HgDigAq
Prep Method: Method

Status: Prepped
Prep Date/Time: 9/1/22 14:07

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	KQ2214912-01	MB		7470A/Hg T		Liquid	10.0000mL	10.00mL	
2	KQ2214912-02	LCS		7470A/Hg T		Liquid	10.0000mL	10.00mL	
3	K2209972-001	083122	.03	7470A/Hg T		Water	2.5000mL	10.00mL	
4	K2210016-005	Metals Q2	.10	7470A/Hg T		Water	10.0000mL	10.00mL	
5	K2210034-001	18CPTMW14_081922	.01	7470A/Hg T		Water	10.0000mL	10.00mL	
6	KQ2214912-03	K2210034-001 MS	.01	7470A/Hg T		Liquid	10.0000mL	10.00mL	
7	KQ2214912-04	K2210034-001 DMS	.01	7470A/Hg T		Liquid	10.0000mL	10.00mL	
8	K2210034-002	19CPTMW12SW_081922	.01	7470A/Hg T		Water	10.0000mL	10.00mL	
9	K2210034-003	18CPTMW12SW_081922_a	.01	7470A/Hg T		Water	10.0000mL	10.00mL	
10	K2210034-004	18CPTMW12DW_081922	.01	7470A/Hg T		Water	10.0000mL	10.00mL	
11	K2210036-001	MW3_081822	.01	7470A/Hg T		Water	10.0000mL	10.00mL	
12	K2210036-002	18CPTMW22SW_081822	.01	7470A/Hg T		Water	10.0000mL	10.00mL	
13	K2210036-003	MW20_081822	.01	7470A/Hg T		Water	10.0000mL	10.00mL	
14	K2210036-004	18CPTMW22DW_081822	.01	7470A/Hg T		Water	10.0000mL	10.00mL	
15	K2210036-005	18CPTMW22R_081822	.01	7470A/Hg T		Water	10.0000mL	10.00mL	
16	K2210037-001	18CPTMW10DW_082322	.01	7470A/Hg T		Ground Water	10.0000mL	10.00mL	
17	K2210037-002	MW9_082322	.01	7470A/Hg T		Ground Water	10.0000mL	10.00mL	
18	K2210037-003	18WW19_082322	.01	7470A/Hg T		Ground Water	10.0000mL	10.00mL	
19	K2210037-004	18WW19_082322_a	.01	7470A/Hg T		Water	10.0000mL	10.00mL	
20	K2210037-005	18WW20_082322	.01	7470A/Hg T		Ground Water	10.0000mL	10.00mL	
21	K2210039-001	MW22_081122	.01	7470A/Hg T		Water	10.0000mL	10.00mL	
22	K2210039-002	18WW09_081122	.01	7470A/Hg T		Water	10.0000mL	10.00mL	
23	K2210039-003	18CPTMW19SW_081122	.01	7470A/Hg T		Water	10.0000mL	10.00mL	

Spiking Solutions

Name: K-MET Hg Source Standard 1000 ug/L Inventory ID 224676 Logbook Ref: HG3-84-V Expires On: 09/25/2022

KQ2214912-02 0.05mL KQ2214912-03 0.05mL KQ2214912-04 0.05mL

Preparation Materials

K-MET 100ml Centrifuge Tube	2106023 (220673)	K-MET 16 mL Tube	GL5221 (223546)	K-MET H2SO4 Hg	61139 (219381)
K-MET HNO3 Hg	22E1062003 (223986)				

Preparation Information Benchsheet

Prep Run#: 405730
Team: Metals/JHINSON

Prep WorkFlow: HgDigAq
Prep Method: Method

Status: Prepped
Prep Date/Time: 9/1/22 14:07

Preparation Steps

Step: Digestion
Started: 9/1/22 14:07
Finished: 9/1/22 16:07
By: JHINSON
Comments

Preparation Equipment

K-Block-Digester-14	Digestion	IR Thermometer ID: IR03		K-Block-Digester-14	Digestion	Temperature	94.8 deg C
K-Block-Digester-14	Digestion	Temperature Check Location	21	K-BlockDigester-17	Digestion	IR Thermometer ID: IR03	
K-BlockDigester-17	Digestion	Temperature	94.7 deg C	K-BlockDigester-17	Digestion	Temperature Check Location	64
K-U52540	Digestion			K-U72662	Digestion		
HG-39591307	Digestion						

Comments: Cal Std: HG3-85-L.

Reviewed By: _____ Date: 9/2/22

9/2
Rush

Preparation Information Benchsheet

Prep Run#: 405730 **Prep WorkFlow:** HgDigAq **Status:** Draft
Team: Metals **Prep Method:** **Prep Date/Time:** 9/1/22 09:52 AM
Number of Copies to make: 6

#	Lab Code	Client ID	B#	√	Test	Matrix	Amt Ext.	pH	Int Vol	Final Vol	Surr Added	Spike Added
1	KQ2214912-01	Method Blank			7470A/Hg T	Liquid						
2	KQ2214912-02	Lab Control Sample			7470A/Hg T	Liquid						
3	K2209972-001	083122	.03		7470A/Hg T	Water	2.5mL	25 uL	Cx=	-0.005		
4	K2210016-005	Metals Q2	.10		7470A/Hg T	Water						
5	K2210034-001	18CPTMW14_081922	.01		7470A/Hg T	Water						
6	KQ2214912-03	Matrix Spike	.01		7470A/Hg T	Liquid						
7	KQ2214912-04	Duplicate Matrix Spike	.01		7470A/Hg T	Liquid						
8	K2210034-002	19CPTMW12SW_081922	.01		7470A/Hg T	Water						
9	K2210034-003	18CPTMW12SW_081922_a	.01		7470A/Hg T	Water						
10	K2210034-004	18CPTMW12DW_081922	.01		7470A/Hg T	Water						
11	K2210036-001	MW3_081822	.01		7470A/Hg T	Water						
12	K2210036-002	18CPTMW22SW_081822	.01		7470A/Hg T	Water						
13	K2210036-003	MW20_081822	.01		7470A/Hg T	Water						
14	K2210036-004	18CPTMW22DW_081822	.01		7470A/Hg T	Water						
15	K2210036-005	18CPTMW22R_081822	.01		7470A/Hg T	Water						
16	K2210037-001	18CPTMW10DW_082322	.01		7470A/Hg T	Water						
17	K2210037-002	MW9_082322	.01		7470A/Hg T	Water						
18	K2210037-003	18WW19_082322	.01		7470A/Hg T	Water						
19	K2210037-004	18WW19_082322_a	.01		7470A/Hg T	Water						
20	K2210037-005	18WW20_082322	.01		7470A/Hg T	Water						
21	K2210039-001	MW22_081122	.01		7470A/Hg T	Water						
22	K2210039-002	18WW09_081122	.01		7470A/Hg T	Water						
23	K2210039-003	18CPTMW19SW_081122	.01		7470A/Hg T	Water						

Comments: Cal Std HG3-85-L BLK 14/94-8/21 1210-1410 BLK 17/94-7/64 1407-1607

Surrogate ID: _____ Spike ID: _____

Witnessed By: _____

Analyst: _____ Assisted By: 776316

Preparation Information Benchsheet

Prep Run#: 405732
Team: Metals/JHINSON
Number of Copies to make: 3

Prep WorkFlow: HgDigAq
Prep Method: Method

Status: Prepped
Prep Date/Time: 9/1/22 14:07

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	KQ2214913-01	MB		7470A/Hg T		Liquid	10.0000mL	10.00mL	
2	KQ2214913-02	LCS		7470A/Hg T		Liquid	10.0000mL	10.00mL	
3	K2210038-001	AWD3_081622	.01	7470A/Hg T		Ground Water	10.0000mL	10.00mL	
4	KQ2214913-03	K2210038-001 MS	.01	7470A/Hg T		Liquid	10.0000mL	10.00mL	
5	KQ2214913-04	K2210038-001 DMS	.01	7470A/Hg T		Liquid	10.0000mL	10.00mL	
6	K2210038-002	AWD3_081622_a	.01	7470A/Hg T		Ground Water	10.0000mL	10.00mL	
7	K2210038-003	102_081622	.01	7470A/Hg T		Ground Water	10.0000mL	10.00mL	
8	K2210038-004	102_081622_a	.01	7470A/Hg T		Ground Water	10.0000mL	10.00mL	
9	K2210038-005	18WW03_081622	.01	7470A/Hg T		Ground Water	10.0000mL	10.00mL	
10	K2210038-006	CO3_081622	.01	7470A/Hg T		Ground Water	10.0000mL	10.00mL	
11	K2210038-007	18WW18_081622	.01	7470A/Hg T		Ground Water	10.0000mL	10.00mL	
12	K2210049-001	LH18/24-SP650_082422	.01	7470A/Hg T		Water	10.0000mL	10.00mL	
13	K2210050-001	LH18/24-SP140_082422	.01	7470A/Hg T		Water	10.0000mL	10.00mL	

Spiking Solutions

Name: K-MET Hg Source Standard 1000 ug/L Inventory ID 224676 Logbook Ref: HG3-84-V Expires On: 09/25/2022

KQ2214913-02 0.05mL KQ2214913-03 0.05mL KQ2214913-04 0.05mL

Preparation Materials

K-MET 100ml Centrifuge Tube	2106023 (220673)	K-MET 16 mL Tube	GL5221 (223546)	K-MET H2SO4 Hg	61139 (21938I)
K-MET HNO3 Hg	22E1062003 (223986)				

Preparation Steps

Step: Digestion
Started: 9/1/22 14:07
Finished: 9/1/22 16:07
By: JHINSON
Comments

Preparation Equipment

K-Block-Digester-14	Digestion	IR Thermometer ID: IR03		K-Block-Digester-14	Digestion	Temperature	94.8 deg C
K-Block-Digester-14	Digestion	Temperature Check Location	21	K-BlockDigester-17	Digestion	IR Thermometer ID: IR03	
K-BlockDigester-17	Digestion	Temperature	94.7 deg C	K-BlockDigester-17	Digestion	Temperature Check Location	64
HG-39591307	Digestion			K-U72662	Digestion		
K-U52540	Digestion						

Preparation Information Benchsheet

Prep Run#: 405732
Team: Metals/JHINSON

Prep WorkFlow: HgDigAq
Prep Method: Method

Status: Prepped
Prep Date/Time: 9/1/22 14:07

Comments: Cal Std: HG3-85-L.

Reviewed By: _____ Date: 9/2/22

RUSH 9/5

Preparation Information Benchsheet

Prep Run#: 405732 **Prep WorkFlow:** HgDigAq **Status:** Draft
Team: Metals **Prep Method:** **Prep Date/Time:** 9/1/22 09:55 AM
Number of Copies to make: 3

#	Lab Code	Client ID	B#	√	Test	Matrix	Amt Ext.	pH	Int Vol	Final Vol	Surr Added	Spike Added
1	KQ2214913-01	Method Blank			7470A/Hg T	Liquid						
2	KQ2214913-02	Lab Control Sample			7470A/Hg T	Liquid						
3	K2210038-001	AWD3_081622	.01		7470A/Hg T	Water						
4	KQ2214913-03	Matrix Spike	.01		7470A/Hg T	Liquid						
5	KQ2214913-04	Duplicate Matrix Spike	.01		7470A/Hg T	Liquid						
6	K2210038-002	AWD3_081622_a	.01		7470A/Hg T	Water						
7	K2210038-003	102_081622	.01		7470A/Hg T	Water						
8	K2210038-004	102_081622_a	.01		7470A/Hg T	Water						
9	K2210038-005	18WW03_081622	.01		7470A/Hg T	Water						
10	K2210038-006	CO3_081622	.01		7470A/Hg T	Water						
11	K2210038-007	18WW18_081622	.01		7470A/Hg T	Water						
12	K2210049-001	LH18/24-SP650_082422	.01		7470A/Hg T	Water						
13	K2210050-001	LH18/24-SP140_082422	.01		7470A/Hg T	Water						

Comments: Cal Std Hg-35-L BLK 14/94 8/21 1210-1410 BLK 1/96.7 169 1407-1607

Surrogate ID: _____ Spike ID: _____

Witnessed By: _____

Analyst: _____ Assisted By: _____

HS22080927-E2200812-Perch Level IV

ALS WO# HS22080927

August 30, 2022 Service Request No:E2200812

Dane Wacasey
ALS Group USA, Corp.
10450 Stancliff Road
Suite 210
Houston, TX 77099-4338

Laboratory Results for: HS22080927

Dear Dane,

Enclosed are the results of the sample(s) submitted to our laboratory August 18, 2022
For your reference, these analyses have been assigned our service request number **E2200812.**

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.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Corey Grandits
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 HRMS
10450 Stancliff Rd, Suite 210, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

ALS Environmental

Client:	ALS Environmental – US	**Service Request No.:**	E2200812
Project:	HS22080927	**Date Received:**	08/18/22
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

Ten samples were received for analysis at ALS Environmental in Houston on 08/18/22.

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:

EQ2200360-02/03: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

The batch precision (MS/DMS) measurements were determined on another order 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:**E2200812
Project: HS22080927

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2200812-001	AWD3_081622	8/16/2022	0655
E2200812-002	AWD3_081622_a	8/16/2022	0655
E2200812-003	102_081622	8/16/2022	0745
E2200812-004	102_081622_a	8/16/2022	0745
E2200812-005	MW16_081622	8/16/2022	0835
E2200812-006	18WW03_081622	8/16/2022	0930
E2200812-007	CO8_081622	8/16/2022	1015
E2200812-008	1824DPTMW04_081622	8/16/2022	1100
E2200812-009	CO3_081622	8/16/2022	1145
E2200812-010	18WW18_081622	8/16/2022	1240

Service Request Summary

Folder #: **E2200812**
Client Name: ALS Environmental - US
Project Name: HS22080927
Project Number:

Report To: Dane Wacasey
ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA
Phone Number: 281-575-2190
Cell Number:
Fax Number: 281-530-5887
E-mail: dane.wacasey@alsglobal.com

Project Chemist: Corey Grandits
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 08/18/22
Internal Due Date: 8/31/2022
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS22080927
EDD: BASIC_WQC_CASNo_LOD

10 120 mL-Plastic Bottle Natural WM Unpreserved
Location: SMO
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2200812-001	AWD3_081622	Water	08/16/22 0655	**IV**
E2200812-002	AWD3_081622_a	Water	08/16/22 0655	**IV**
E2200812-003	102_081622	Water	08/16/22 0745	**IV**
E2200812-004	102_081622_a	Water	08/16/22 0745	**IV**
E2200812-005	MW16_081622	Water	08/16/22 0835	**IV**
E2200812-006	18WW03_081622	Water	08/16/22 0930	**IV**
E2200812-007	CO8_081622	Water	08/16/22 1015	**IV**
E2200812-008	1824DPTMW04_081622	Water	08/16/22 1100	**IV**
E2200812-009	CO3_081622	Water	08/16/22 1145	**IV**
E2200812-010	18WW18_081622	Water	08/16/22 1240	**IV**

Service Request Summary

Folder #: **E2200812**
Client Name: ALS Environmental - US
Project Name: HS22080927
Project Number:

Report To: Dane Wacasey
ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA
Phone Number: 281-575-2190
Cell Number:
Fax Number: 281-530-5887
E-mail: dane.wacasey@alsglobal.com

Project Chemist: Corey Grandits
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 08/18/22
Internal Due Date: 8/31/2022
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS22080927
EDD: BASIC_WQC_CASNo_LOD

10 120 mL-Plastic Bottle Natural WM Unpreserved
Location: SMO
Pressure Gas:

Test Comments:

Group	Test/Method	Samples	Comments
Semivoa GCMS	ClO4 DOD/6850	10	IV Due 9/8

Data Qualifiers

Lab Standard

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

Data Qualifiers

Lab Standard

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

ALS Laboratory Group

Acronyms

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

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

ALS Environmental

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793	5/27/2023
Arkansas Department of Environmental Quality	22-041-0	3/27/2023
California Department of Health Services	2919-2023	4/30/2023
Department of Defense	L22-90	3/31/2024
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Hawaii Department of Health	2022	4/30/2023
Illinois Environmental Protection Agency	2000322022-9	5/9/2023
Kansas Department of Health and Environment	E-10352 2022-2023	7/31/2023
Louisiana Department of Environmental Quality	03087-2022	6/30/2023
Louisiana Department of Health and Hospitals	LA028	12/31/2022
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343	6/30/2023
Michigan Depratment of Environmental Quality	9971-2022	4/30/2023
Minnesota Department of Health	2228443	12/31/2022
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2023
Nevada Department of Conservation and Natural Resources	TX026932023-1	7/31/2023
New Hampshire Environmental Laboratory Accreditation Program	209422	4/24/2023
New Jersey Department of Environmental Protection	TX008-2023	6/30/2023
New York Department of Health	11707	3/31/2023
Oklahoma Department of Environmental Quality	2021-080	8/31/2022
Oregon Environmental Laboratory Accreditation Program	TX200002	5/15/2023
Pennsylvania Department of Environmental Protection	68-03441-016	6/30/2023
Perry Johnson Laboratory Accreditation	L22-91	3/31/2024
Tennessee Department of Environment and Concervation	04016-2022	4/30/2023
Texas Commision on Environmental Quality	T104704231-22-29	4/30/2023
United States Department of Agriculture	P330-19-00299	10/10/2022
Utah Department of Health Environmental Laboratory Certification	TX026932022-13	7/31/2023
Washington Department of Health	C819-2022	11/14/2022

Chain of Custody

ALS Environmental - Houston HRMS
10450 Stancliff Rd, Suite 210, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

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

Subcontract Chain of Custody

SAMPLING STATE: Texas **COC ID:** 19429

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Dane J. Wacasey
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	Dane.Wacasey@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:	HS22080927
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS22080927-01**	**AWD3_081622**	**Groundwater**	**16 Aug 2022 06:55**
	Provide Level II and Level IV reports in separate pdf			31 Aug 2022
2.	**HS22080927-02**	**AWD3_081622_a**	**Groundwater**	**16 Aug 2022 06:55**
	Provide Level II and Level IV reports in separate pdf			31 Aug 2022
3.	**HS22080927-03**	**102_081622**	**Groundwater**	**16 Aug 2022 07:45**
	Provide Level II and Level IV reports in separate pdf			31 Aug 2022
4.	**HS22080927-04**	**102_081622_a**	**Groundwater**	**16 Aug 2022 07:45**
	Provide Level II and Level IV reports in separate pdf			31 Aug 2022
5.	**HS22080927-05**	**MW16_081622**	**Groundwater**	**16 Aug 2022 08:35**
	Provide Level II and Level IV reports in separate pdf			31 Aug 2022
6.	**HS22080927-06**	**18WW03_081622**	**Groundwater**	**16 Aug 2022 09:30**
	Provide Level II and Level IV reports in separate pdf			31 Aug 2022
7.	**HS22080927-07**	**CO8_081622**	**Groundwater**	**16 Aug 2022 10:15**
	Provide Level II and Level IV reports in separate pdf			31 Aug 2022
8.	**HS22080927-08**	**1824DPTMW04_081622**	**Groundwater**	**16 Aug 2022 11:00**
	Provide Level II and Level IV reports in separate pdf			31 Aug 2022
9.	**HS22080927-09**	**CO3_081622**	**Groundwater**	**16 Aug 2022 11:45**

Subcontract Chain of Custody

SAMPLING STATE: Texas **COC ID:** 19429

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
	Provide Level II and Level IV reports in separate pdf			31 Aug 2022
10.	**HS22080927-10**	**18WW18_081622**	**Groundwater**	**16 Aug 2022 12:40**
	Provide Level II and Level IV reports in separate pdf			31 Aug 2022

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

QC Level: DOD IV (DoD Data Package)

Relinquished By: NE Date/Time:

Received By: PURETY Date/Time: 8/18/22 1101

Cooler ID(s): Temperature(s):

Cooler Receipt Form

ALS Environmental

Project Chemist: CH

Client/Project: ALS-H

Thermometer ID: IR4

Date/Time Received: 8/18/22 Initials: CH Date/Time Logged in: 8/18/22 Initials: CH

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

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

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

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

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

Cooler Tracking Number	COC ID	Date Opened	Time Opened	Opened By	Temp. °C	Temp Blank?
NA		8/18/22	1100	CH	0.9°	☑
						☐
						☐
						☐

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

Notes, Discrepancies, & Resolutions:

Service request Label:

10450 Stancliff Rd., Suite 210
Houston, TX 77099
T: +1 713 266 1599
F: +1 713 266 1599
www.alsglobal.com

SAMPLE ACCEPTANCE POLICY

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

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

- ✓ Intact on outside of cooler, signed and dated

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

The following is required on each COC:

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

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

Sample Integrity (mandatory):

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

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

Temperature Requirement (varies by sample matrix):

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

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

Preparation Information Benchsheets

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston, TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

Preparation Information Benchsheet

Prep Run#: 404961 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/GRIVERA **Prep Method:** Method **Prep Date/Time:** 8/22/22 12:55

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2200812-001	AWD3_081622	.01	6850/ClO4 DOD			Water	10mL	
2	E2200812-002	AWD3_081622_a	.01	6850/ClO4 DOD			Water	10mL	
3	E2200812-003	102_081622	.01	6850/ClO4 DOD			Water	10mL	
4	E2200812-004	102_081622_a	.01	6850/ClO4 DOD			Water	10mL	
5	E2200812-005	MW16_081622	.01	6850/ClO4 DOD			Water	10mL	
6	E2200812-006	18WW03_081622	.01	6850/ClO4 DOD			Water	10mL	
7	E2200812-007	CO8_081622	.01	6850/ClO4 DOD			Water	10mL	
8	E2200812-008	1824DPTMW04_081622	.01	6850/ClO4 DOD			Water	10mL	
9	E2200812-009	CO3_081622	.01	6850/ClO4 DOD			Water	10mL	
10	E2200812-010	18WW18_081622	.01	6850/ClO4 DOD			Water	10mL	
11	E2200817-001	129_081722	.01	6850/ClO4 DOD			Ground Water	10mL	
12	E2200817-002	MW1_081722	.01	6850/ClO4 DOD			Ground Water	10mL	
13	E2200817-003	MW6_081722	.01	6850/ClO4 DOD			Ground Water	10mL	
14	E2200817-004	126_081722	.01	6850/ClO4 DOD			Ground Water	10mL	
15	E2200817-005	AWD4_081722	.01	6850/ClO4 DOD			Ground Water	10mL	
16	E2200817-006	18WW22_081722	.01	6850/ClO4 DOD			Ground Water	10mL	
17	E2200817-007	18WW22_081722_a	.01	6850/ClO4 DOD			Ground Water	10mL	
18	E2200817-008	CO4_081722	.01	6850/ClO4 DOD			Ground Water	10mL	
19	E2200817-009	18WW14_081722	.01	6850/ClO4 DOD			Ground Water	10mL	
20	EQ2200360-01	MB		6850/ClO4 DOD			Liquid	10mL	
21	EQ2200360-02	LCS		6850/ClO4 DOD			Liquid	10mL	
22	EQ2200360-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
23	EQ2200360-04	MW6_081722 MS	.02	6850/ClO4 DOD			Liquid	10mL	
24	EQ2200360-05	MW6_081722 DMS	.02	6850/ClO4 DOD			Liquid	10mL	
25	EQ2200360-06	18WW14_081722 MS	.02	6850/ClO4 DOD			Liquid	10mL	
26	EQ2200360-07	18WW14_081722 DMS	.02	6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock1 Inventory ID 222798 Logbook Ref: Perchlorate (1st Source) Expires On: 10/29/2022

EQ2200360-02 1.00µL EQ2200360-03 1.00µL EQ2200360-04 1.00µL EQ2200360-05 1.00µL EQ2200360-06 1.00µL EQ2200360-07 1.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 223118 Logbook Ref: Perchlorate Internal Standard Expires On: 10/31/2022

E2200812-001 100.00µL E2200812-002 100.00µL E2200812-003 100.00µL E2200812-004 100.00µL E2200812-005 100.00µL E2200812-006 100.00µL

Preparation Information Benchsheet

Prep Run#: 404961 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/GRIVERA **Prep Method:** Method **Prep Date/Time:** 8/22/22 12:55

E2200812-007	100.00µL	E2200812-008	100.00µL	E2200812-009	100.00µL	E2200812-010	100.00µL	E2200817-001	100.00µL	E2200817-002	100.00µL
E2200817-003	100.00µL	E2200817-004	100.00µL	E2200817-005	100.00µL	E2200817-006	100.00µL	E2200817-007	100.00µL	E2200817-008	100.00µL
E2200817-009	100.00µL	EQ2200360-01	100.00µL	EQ2200360-02	100.00µL	EQ2200360-03	100.00µL	EQ2200360-04	100.00µL	EQ2200360-05	100.00µL
EQ2200360-06	100.00µL	EQ2200360-07	100.00µL								

Preparation Materials

Water HPLC Grade	5/12/2022 Water (223056)	6850 Amber Glass screw vial	2mL Screw Top Vial (221894)	6850 0.45um syringe filters	6850 Syringe Filters (224414)
6850 Luer-Lok Syringes	Luer-Lok Syringes (221305)	6850 Pipette Tips 50-1000 uL	6850 Pipette Tips (221929)		

Preparation Steps

Step: Preparation
Started: 8/22/22 12:55
Finished: 8/22/22 13:30
By: GRIVERA
Comments

Comments: _____

Reviewed By: GR Date: 08/22/22

Chain of Custody

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

Extracts Examined
Yes No

Analytical Results

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston, TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2200812
Project:	HS22080927	**Date Collected:**	8/16/22 0655
Sample Matrix:	Water	**Date Received:**	8/18/22
Sample Name:	AWD3_081622	**Units:**	µg/L
Lab Code:	E2200812-001	**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	**42.3**		0.100	0.0500	0.0250	1	8/22/22	8/26/22 17:53	404961	775636	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2200812
Project:	HS22080927	**Date Collected:**	8/16/22 0655
Sample Matrix:	Water	**Date Received:**	8/18/22
Sample Name:	AWD3_081622_a	**Units:**	µg/L
Lab Code:	E2200812-002	**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	**41.8**		0.100	0.0500	0.0250	1	8/22/22	8/26/22 18:01	404961	775636	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2200812
Project:	HS22080927	**Date Collected:**	8/16/22 0745
Sample Matrix:	Water	**Date Received:**	8/18/22
Sample Name:	102_081622	**Units:**	µg/L
Lab Code:	E2200812-003	**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	**34.9**		0.100	0.0500	0.0250	1	8/22/22	8/26/22 18:10	404961	775636	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2200812
Project:	HS22080927	**Date Collected:**	8/16/22 0745
Sample Matrix:	Water	**Date Received:**	8/18/22
Sample Name:	102_081622_a	**Units:**	µg/L
Lab Code:	E2200812-004	**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	**34.8**		0.100	0.0500	0.0250	1	8/22/22	8/26/22 18:18	404961	775636	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2200812
Project:	HS22080927	**Date Collected:**	8/16/22 0835
Sample Matrix:	Water	**Date Received:**	8/18/22
Sample Name:	MW16_081622	**Units:**	µg/L
Lab Code:	E2200812-005	**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	**0.0518**	J	0.100	0.0500	0.0250	1	8/22/22	8/29/22 13:20	404961	775727	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2200812
Project:	HS22080927	**Date Collected:**	8/16/22 0930
Sample Matrix:	Water	**Date Received:**	8/18/22
Sample Name:	18WW03_081622	**Units:**	µg/L
Lab Code:	E2200812-006	**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	**0.0307**	J	0.100	0.0500	0.0250	1	8/22/22	8/29/22 13:28	404961	775727	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2200812
Project:	HS22080927	**Date Collected:**	8/16/22 1015
Sample Matrix:	Water	**Date Received:**	8/18/22
Sample Name:	CO8_081622	**Units:**	µg/L
Lab Code:	E2200812-007	**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	**0.135**		0.100	0.0500	0.0250	1	8/22/22	8/29/22 13:37	404961	775727	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2200812
Project:	HS22080927	**Date Collected:**	8/16/22 1100
Sample Matrix:	Water	**Date Received:**	8/18/22
Sample Name:	1824DPTMW04_081622	**Units:**	µg/L
Lab Code:	E2200812-008	**Basis:**	NA

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

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.242**		0.100	0.0500	0.0250	1	8/22/22	8/26/22 18:53	404961	775636	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2200812
Project:	HS22080927	**Date Collected:**	8/16/22 1145
Sample Matrix:	Water	**Date Received:**	8/18/22
Sample Name:	CO3_081622	**Units:**	µg/L
Lab Code:	E2200812-009	**Basis:**	NA

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

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**69.8**		1.00	0.500	0.250	10	8/22/22	8/29/22 15:40	404961	775727	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2200812
Project:	HS22080927	**Date Collected:**	8/16/22 1240
Sample Matrix:	Water	**Date Received:**	8/18/22
Sample Name:	18WW18_081622	**Units:**	µg/L
Lab Code:	E2200812-010	**Basis:**	NA

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

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	8/22/22	8/26/22 19:19	404961	775636	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2200812
Project:	HS22080927	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2200360-01	**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	8/22/22	8/26/22 15:43	404961	775636	

Accuracy & Precision

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2200812
Project:	HS22080927	**Date Analyzed:**	8/26/22 - 8/29/22
Sample Matrix:	Water		

Lab Control Sample Summary

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

Analytical Method:	6850	**Units:**	µg/L
Prep Method:	Method	**Basis:**	NA
		Extraction Lot:	404961

	Lab Control Sample EQ2200360-02			Duplicate Lab Control Sample EQ2200360-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.100	0.100	100	0.106	0.100	106	84 - 119	5	15

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

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

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2200812
Project:	HS22080927	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2200360-02	**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	**0.100**		0.100	0.0500	0.0250	1	8/22/22	8/26/22 15:52	404961	775636	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2200812
Project:	HS22080927	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2200360-03	**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	**0.106**		0.100	0.0500	0.0250	1	8/22/22	8/29/22 13:11	404961	775727	

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

20220816

1st Review: GRivera
2nd Review: Kneir

Injection Log
LCMS01 -Shimadzu 8050

ICAL Date: 8/16/2022
Cal. Std. xp: 10/29/2022
ICAL ID: **EC2200012**

Mobile Phases **A:** 0.10% Formic Acid/Water 3100820-05 **B:** MeOH 218535

			File Name	Acquisition Method	Dilution	R	Comments	Date/Time
1	PERCHLORATE1		20220816_023	Perchlorate6850c.lcm	1x	☒	224623	8/16/2022 19:03
2	PERCHLORATE2		20220816_024	Perchlorate6850c.lcm	1x	☒	224624	8/16/2022 19:12
3	PERCHLORATE3		20220816_025	Perchlorate6850c.lcm	1x	☒	224625	8/16/2022 19:21
4	PERCHLORATE4		20220816_026	Perchlorate6850c.lcm	1x	☒	224626	8/16/2022 19:30
5	PERCHLORATE5		20220816_027	Perchlorate6850c.lcm	1x	☒	224628	8/16/2022 19:39
6	PERCHLORATE6		20220816_028	Perchlorate6850c.lcm	1x	☒	224629	8/16/2022 19:47
7	PERCHLORATE7		20220816_029	Perchlorate6850c.lcm	1x	☒	224631	8/16/2022 19:56
8	PERCHLORATE8		20220816_030	Perchlorate6850c.lcm	1x	☒	224632	8/16/2022 20:05
9	PERCHLORATE9		20220816_031	Perchlorate6850c.lcm	1x	☒	224634	8/16/2022 20:14
10	PERCHLORATE10		20220816_032	Perchlorate6850c.lcm	1x	☒	224636	8/16/2022 20:23
11	PERCHLORATEICV		20220816_034	Perchlorate6850c.lcm	1x	☒	224637	8/16/2022 20:41
12								
13								
14								
15								

Initial Calibration - Detailed Report

Calibration ID: EC2200012 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2200012-01	PERCHLORATE1	20220816_023	08/16/2022 19:03
02	EC2200012-02	PERCHLORATE2	20220816_024	08/16/2022 19:12
03	EC2200012-03	PERCHLORATE3	20220816_025	08/16/2022 19:21
04	EC2200012-04	PERCHLORATE4	20220816_026	08/16/2022 19:30
05	EC2200012-05	PERCHLORATE5	20220816_027	08/16/2022 19:39
06	EC2200012-06	PERCHLORATE6	20220816_028	08/16/2022 19:47
07	EC2200012-07	PERCHLORATE7	20220816_029	08/16/2022 19:56
08	EC2200012-08	PERCHLORATE8	20220816_030	08/16/2022 20:05
09	EC2200012-09	PERCHLORATE9	20220816_031	08/16/2022 20:14
10	EC2200012-10	PERCHLORATE10	20220816_032	08/16/2022 20:23

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

Perchlorate **Average RF** **RSD = 9.533** **Average RF = 0.1459**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000	0.1843	02	0.5000	0.1408	03	0.7000	0.144	04	1.0000	0.1462
05	2.0000	0.1397	06	5.0000	0.1363	07	10.0000	0.1469	08	20.0000	0.1435
09	30.0000	0.1392	10	50.0000	0.1386						

Analyte

Perchlorate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000	0.126	26.3	02	0.5000	0.482	-3.6	03	0.7000	0.691	-1.3
04	1.0000	1.00	0.2	05	2.0000	1.91	-4.3	06	5.0000	4.67	-6.6
07	10.0000	10.1	0.7	08	20.0000	19.7	-1.7	09	30.0000	28.6	-4.7
10	50.0000	47.5	-5.0								

Initial Calibration Verification Summary Report

Calibration ID:	EC2200012	**Instrument ID:**	E-LCMS-01
Datafile ID:	20220816_034	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2200012-11	T	Average RF	10	9.206	ng/mL	-7.9	<= 15

Insight Report

Printed at 8/18/2022 4:03:16 PM

Method File: I:\LCMS01\DATA\20220816\20220816.lcm
Project File: I:\LCMS01\DATA\20220816\20220816-ICAL.damlp

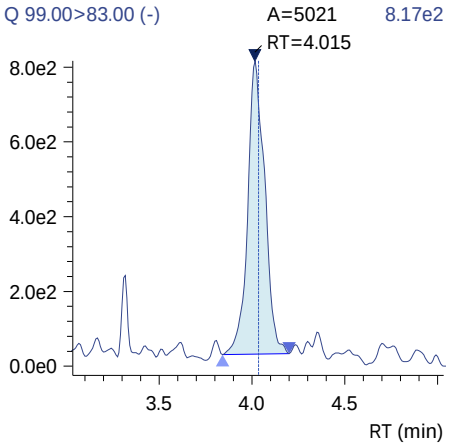
PERCHLORATE1

Sample ID: PERCHLORATE1
Date Acquired: 8/16/2022 7:03:22 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220816\20220816_023.lcd
Vial: 20 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	4.015	5021	272391	0.1263	ng/mL	38.86	21.39-39.72
Perchlorate 2	Auto	4.018	1951	272391	0.0000	ng/mL	----	
Sodium Perchlorate-18O4_IS	Auto	4.028	272391	272391	1.0000	ng/mL	----	

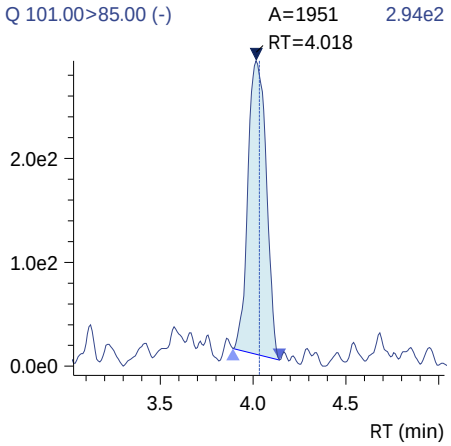
Perchlorate

Conc 0.1263



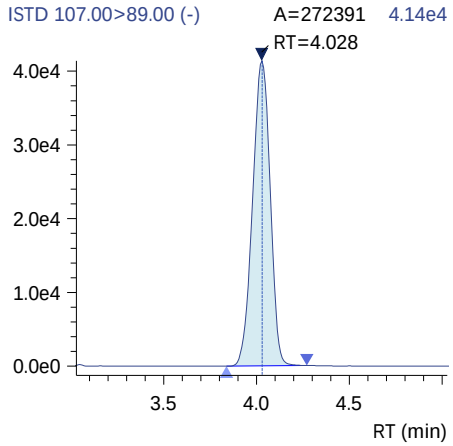
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 8/18/2022 4:03:16 PM

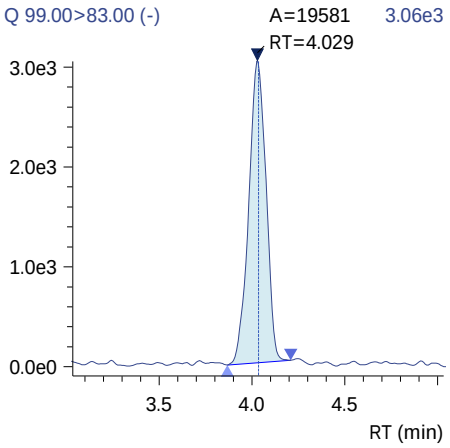
PERCHLORATE2

Sample ID: PERCHLORATE2
Date Acquired: 8/16/2022 7:12:18 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220816\20220816_024.lcd
Vial: 21 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	4.029	19581	278225	0.4822	ng/mL	39.99	21.39-39.72
Perchlorate 2	Auto	4.031	7831	278225	0.0000	ng/mL	----	
Sodium Perchlorate-18O4_IS	Auto	4.029	278225	278225	1.0000	ng/mL	----	

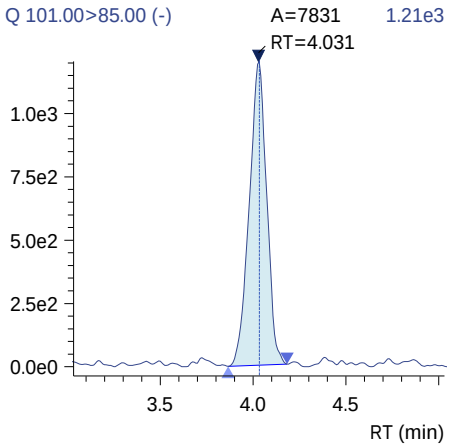
Perchlorate

Conc 0.4822



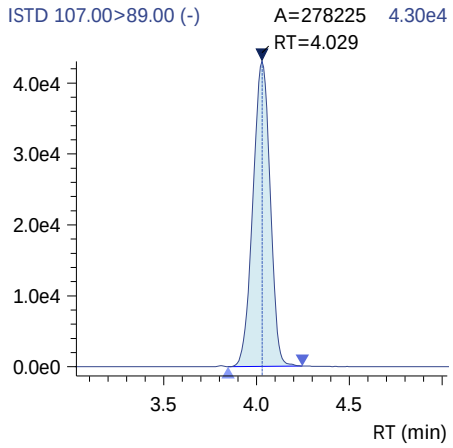
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 8/18/2022 4:03:16 PM

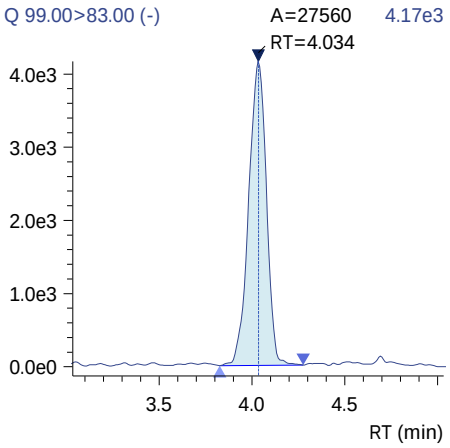
PERCHLORATE3

Sample ID: PERCHLORATE3
Date Acquired: 8/16/2022 7:21:14 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220816\20220816_025.lcd
Vial: 22 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	4.034	27560	273395	0.6907	ng/mL	39.49	21.39-39.72
Perchlorate 2	Auto	4.032	10884	273395	0.0000	ng/mL	----	
Sodium Perchlorate-18O4_IS	Auto	4.031	273395	273395	1.0000	ng/mL	----	

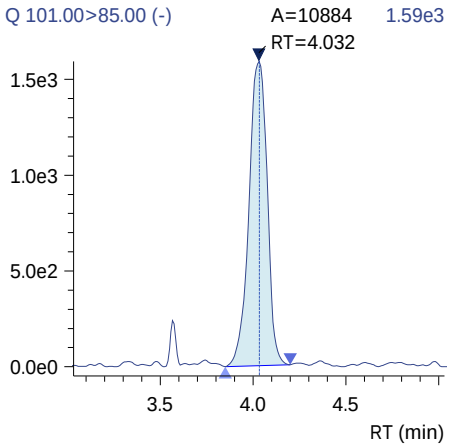
Perchlorate

Conc 0.6907



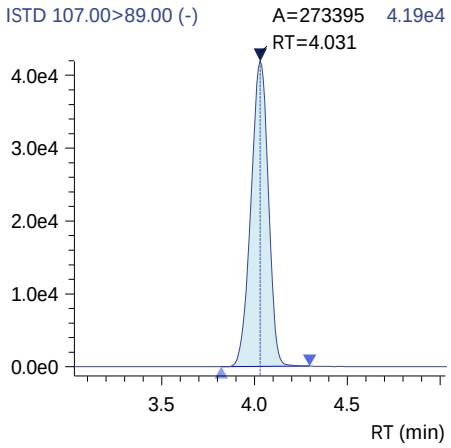
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 8/18/2022 4:03:16 PM

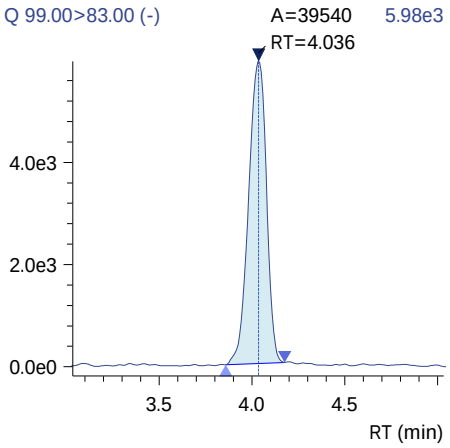
PERCHLORATE4

Sample ID: PERCHLORATE4
Date Acquired: 8/16/2022 7:30:08 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220816\20220816_026.lcd
Vial: 23 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	4.036	39540	270477	1.0016	ng/mL	37.85	21.39-39.72
Perchlorate 2	Auto	4.026	14965	270477	0.0000	ng/mL	----	
Sodium Perchlorate-18O4_IS	Auto	4.029	270477	270477	1.0000	ng/mL	----	

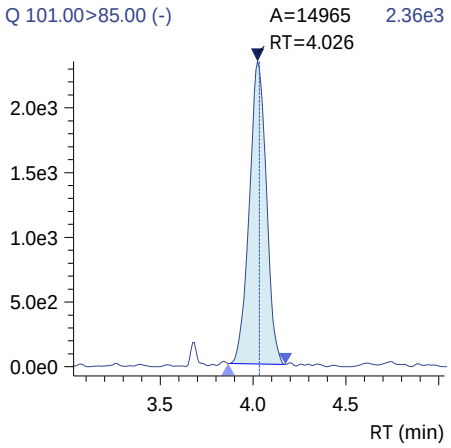
Perchlorate

Conc 1.0016



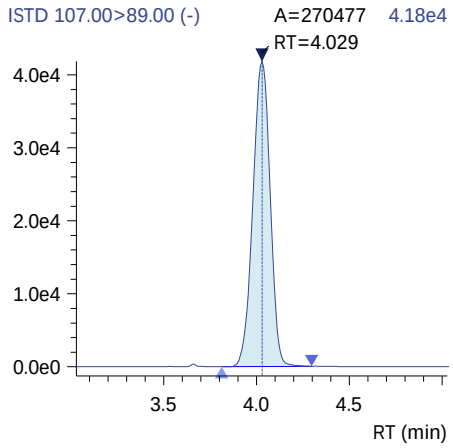
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 8/18/2022 4:03:16 PM

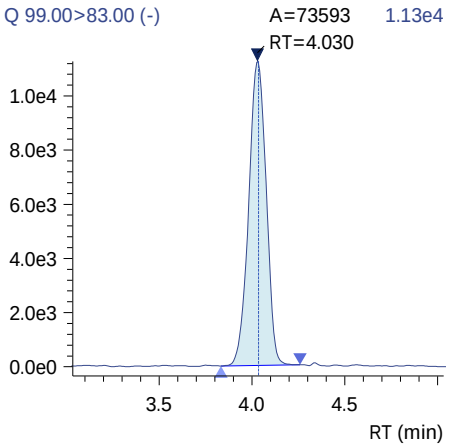
PERCHLORATE5

Sample ID: PERCHLORATE5
Date Acquired: 8/16/2022 7:39:00 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220816\20220816_027.lcd
Vial: 24 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	4.030	73593	263417	1.9142	ng/mL	39.18	21.39-39.72
Perchlorate 2	Auto	4.029	28831	263417	0.0000	ng/mL	----	
Sodium Perchlorate-18O4_IS	Auto	4.028	263417	263417	1.0000	ng/mL	----	

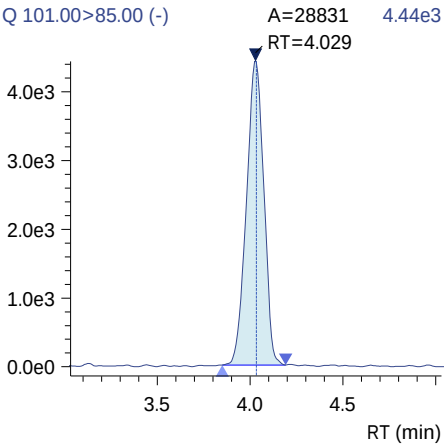
Perchlorate

Conc 1.9142



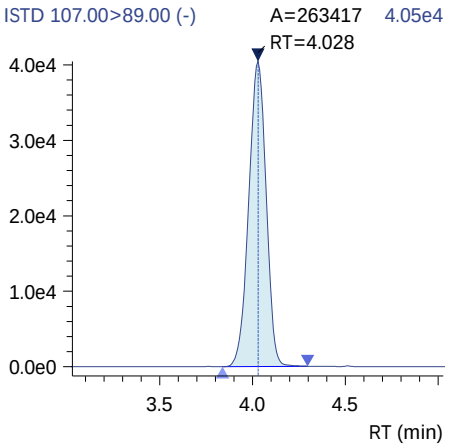
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 8/18/2022 4:03:16 PM

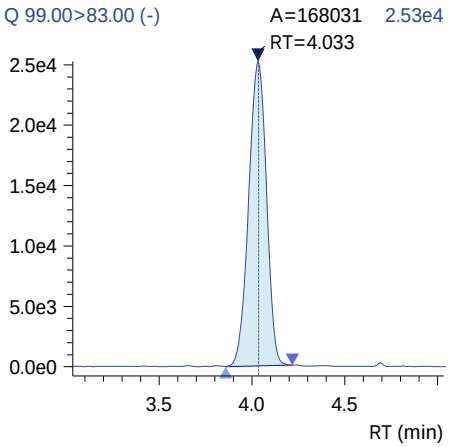
PERCHLORATE6

Sample ID: PERCHLORATE6
Date Acquired: 8/16/2022 7:47:52 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220816\20220816_028.lcd
Vial: 25 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	4.033	168031	246481	4.6709	ng/mL	38.82	21.39-39.72
Perchlorate 2	Auto	4.027	65225	246481	0.0000	ng/mL	----	
Sodium Perchlorate-18O4_IS	Auto	4.028	246481	246481	1.0000	ng/mL	----	

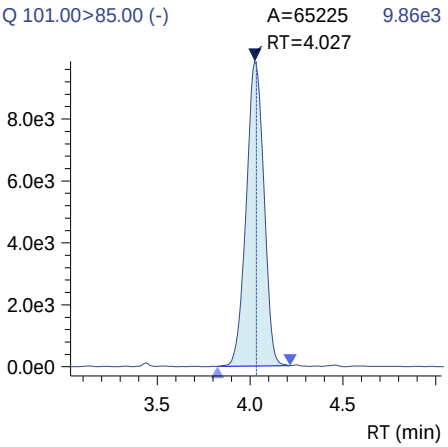
Perchlorate

Conc 4.6709



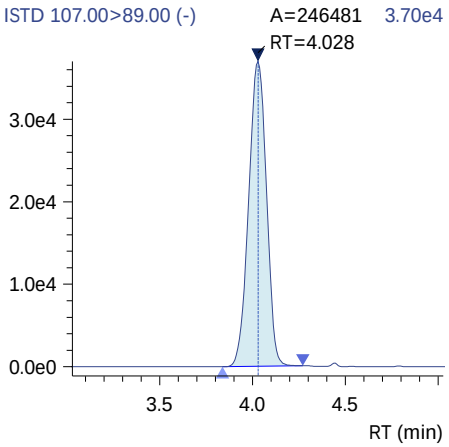
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 8/18/2022 4:03:16 PM

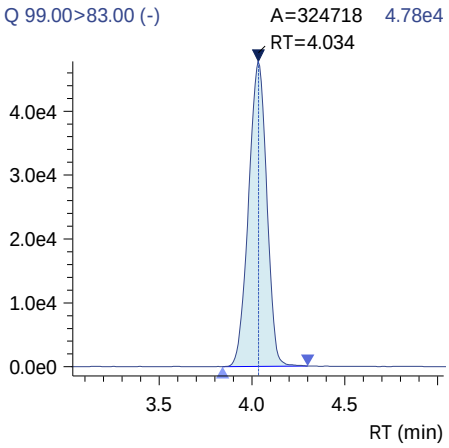
PERCHLORATE7

Sample ID: PERCHLORATE7
Date Acquired: 8/16/2022 7:56:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220816\20220816_029.lcd
Vial: 26 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	4.034	324718	221048	10.0651	ng/mL	38.60	21.39-39.72
Perchlorate 2	Auto	4.033	125348	221048	0.0000	ng/mL	----	
Sodium Perchlorate-18O4_IS	Auto	4.029	221048	221048	1.0000	ng/mL	----	

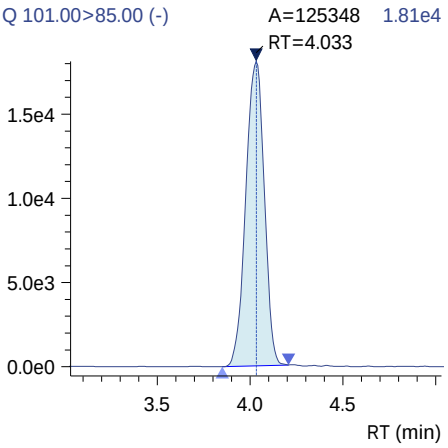
Perchlorate

Conc 10.0651



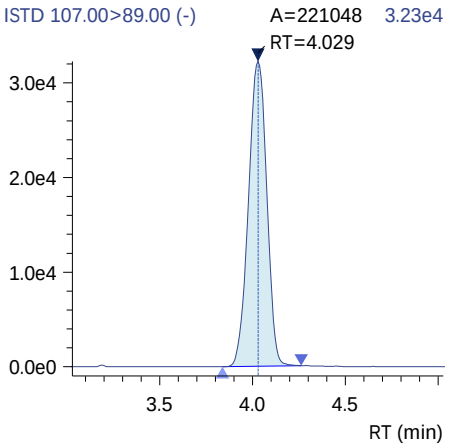
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 8/18/2022 4:03:16 PM

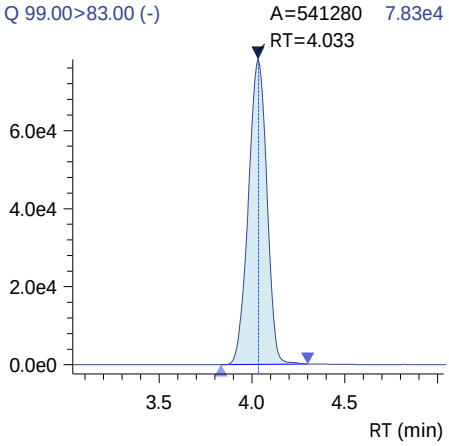
PERCHLORATE8

Sample ID: PERCHLORATE8
Date Acquired: 8/16/2022 8:05:37 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220816\20220816_030.lcd
Vial: 27 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	4.033	541280	188580	19.6663	ng/mL	38.63	21.39-39.72
Perchlorate 2	Auto	4.032	209073	188580	0.0000	ng/mL	----	
Sodium Perchlorate-18O4_IS	Auto	4.031	188580	188580	1.0000	ng/mL	----	

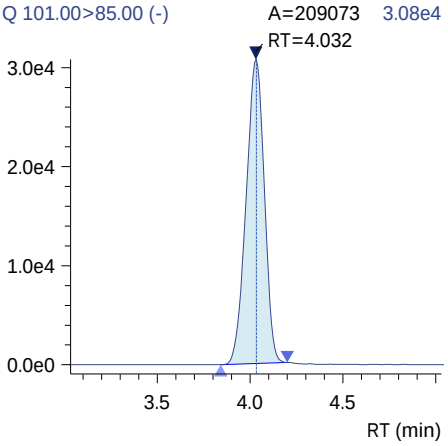
Perchlorate

Conc 19.6663



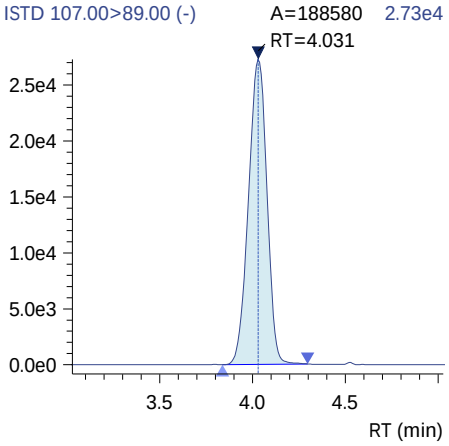
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 8/18/2022 4:03:16 PM

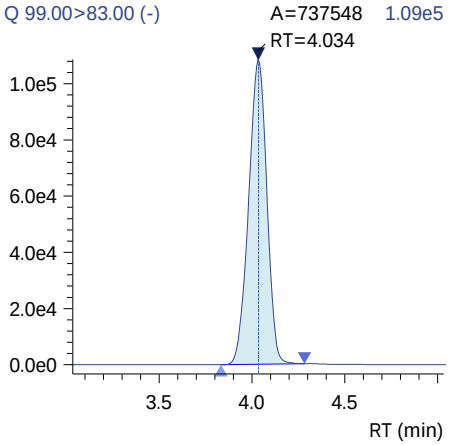
PERCHLORATE9

Sample ID: PERCHLORATE9
Date Acquired: 8/16/2022 8:14:30 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220816\20220816_031.lcd
Vial: 28 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	4.034	737548	176672	28.6035	ng/mL	39.06	21.39-39.72
Perchlorate 2	Auto	4.032	288078	176672	0.0000	ng/mL	----	
Sodium Perchlorate-18O4_IS	Auto	4.031	176672	176672	1.0000	ng/mL	----	

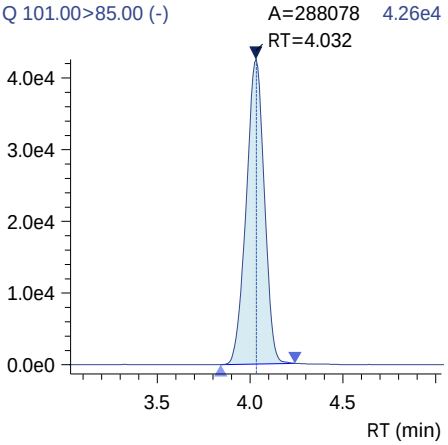
Perchlorate

Conc 28.6035



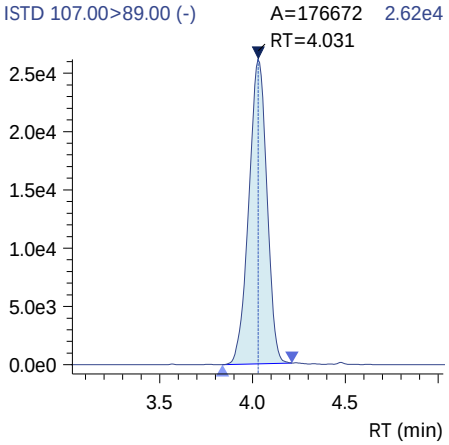
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 8/18/2022 4:03:16 PM

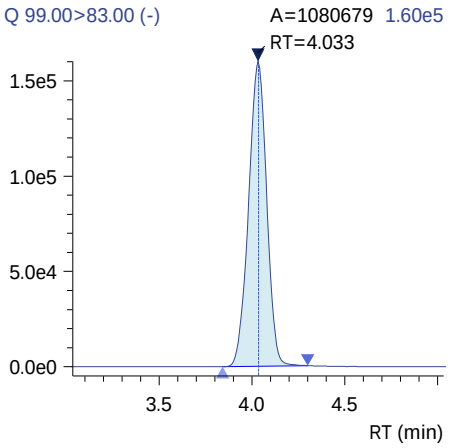
PERCHLORATE10

Sample ID: PERCHLORATE10
Date Acquired: 8/16/2022 8:23:24 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220816\20220816_032.lcd
Vial: 29 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	4.033	1080679	155928	47.4864	ng/mL	39.09	21.39-39.72
Perchlorate 2	Auto	4.029	422395	155928	0.0000	ng/mL	----	
Sodium Perchlorate-18O4_IS	Auto	4.028	155928	155928	1.0000	ng/mL	----	

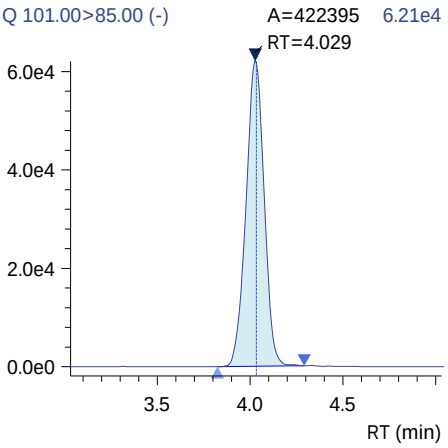
Perchlorate

Conc 47.4864



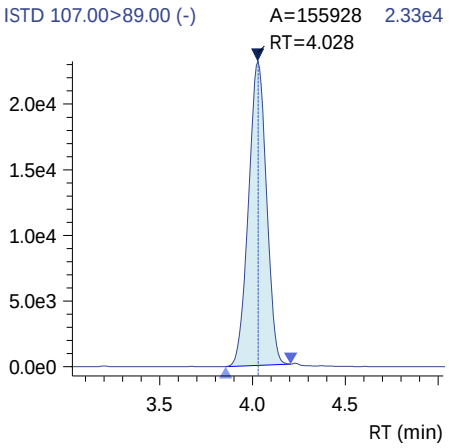
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 8/18/2022 4:03:16 PM

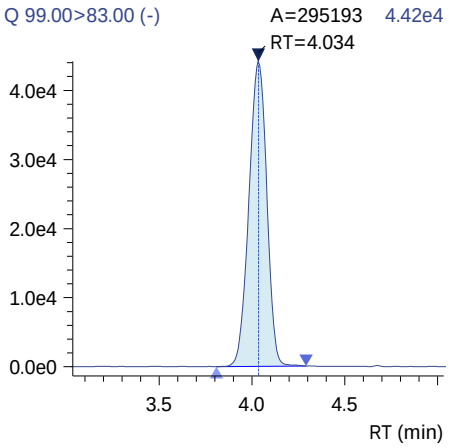
PERCHLORATEICV

Sample ID: PERCHLORATEICV
Date Acquired: 8/16/2022 8:41:13 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220816\20220816_034.lcd
Vial: 30 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI R1	4.034	295193	219691	9.2064	ng/mL	38.90	21.39-39.72
Perchlorate 2	M	4.031	114819	219691	0.0000	ng/mL	----	
Sodium Perchlorate-18O4_IS	Auto	4.030	219691	219691	1.0000	ng/mL	----	

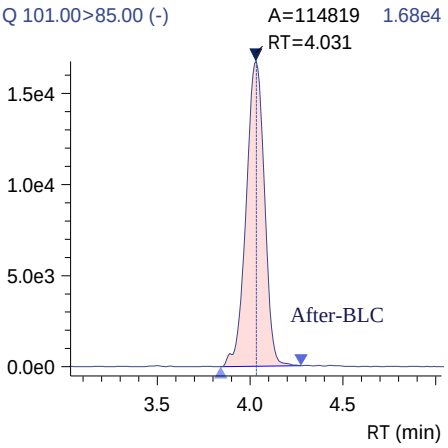
Perchlorate

Conc 9.2064



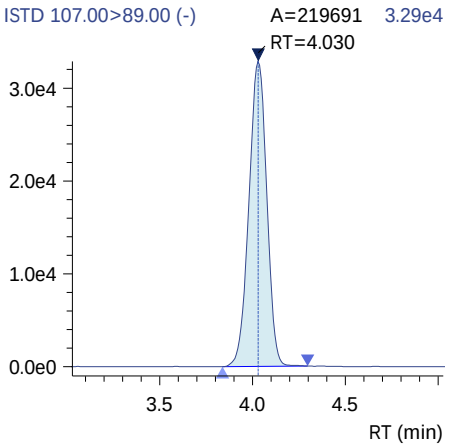
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 8/18/2022 4:05:28 PM

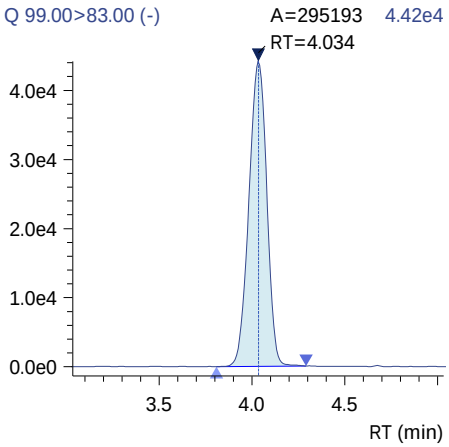
PERCHLORATEICV

Sample ID: PERCHLORATEICV
Date Acquired: 8/16/2022 8:41:13 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220816\20220816_034.lcd
Vial: 30 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	4.034	295193	219691	9.2064	ng/mL	36.05	21.39-39.72
Perchlorate 2	Auto	4.031	106424	219691	0.0000	ng/mL	----	
Sodium Perchlorate-18O4_IS	Auto	4.030	219691	219691	1.0000	ng/mL	----	

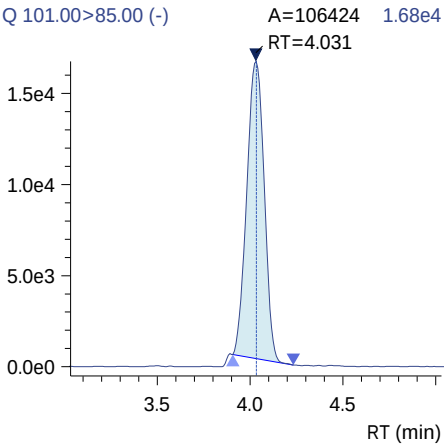
Perchlorate

Conc 9.2064



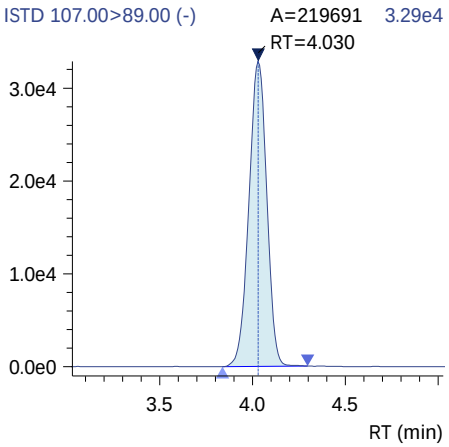
Perchlorate 2

Conc 0.0000



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

20220826

1st Review: GRivera
2nd Review: Kneir

Injection Log
LCMS01 -Shimadzu 8050

ICAL Date: 8/16/2022
Cal. Std. xp: 10/29/2022
ICAL ID: **EC2200012**

Mobile Phases **A:** 0.10% Formic Acid/Water 3100820-05 **B:** MeOH 218535

			File Name	Acquisition Method	Dilution	R	Comments	Date/Time
1	null		20220826_001	Perchlorate6850c.lcm	1x	☒		8/26/2022 10:51
2	null		20220826_002	Perchlorate6850c.lcm	1x	☒		8/26/2022 10:57
3	IB		20220826_003	Perchlorate6850c.lcm	1x	☒		8/26/2022 11:03
4	IB		20220826_004	Perchlorate6850c.lcm	1x	☒		8/26/2022 11:12
5	IB		20220826_005	Perchlorate6850c.lcm	1x	☒		8/26/2022 11:20
6	IB		20220826_006	Perchlorate6850c.lcm	1x	☒		8/26/2022 11:29
7	MeOH		20220826_007	Perchlorate6850c.lcm	1x	☒		8/26/2022 12:12
8	MeOH		20220826_008	Perchlorate6850c.lcm	1x	☒		8/26/2022 12:21
9	IB		20220826_009	Perchlorate6850c.lcm	1x	☒		8/26/2022 12:30
10	ICS		20220826_010	Perchlorate6850c.lcm	1x	☒		8/26/2022 12:47
11	LODV		20220826_011	Perchlorate6850c.lcm	1x	☒	224622	8/26/2022 13:04
12	PERCHLORATE7		20220826_012	Perchlorate6850c.lcm	1x	☒	224631	8/26/2022 13:13
13	E2200793-001		20220826_013	Perchlorate6850c.lcm	1x	☒	DNU-Confirmation only	8/26/2022 13:21
14	E2200793-002		20220826_014	Perchlorate6850c.lcm	1x	☒	DNU-Confirmation only	8/26/2022 13:30
15	E2200793-003		20220826_015	Perchlorate6850c.lcm	1x	☒	DNU-Confirmation only	8/26/2022 13:47
16	E2200811-001		20220826_016	Perchlorate6850c.lcm	1x	☒	DNU-Confirmation only	8/26/2022 13:56
17	E2200811-007		20220826_017	Perchlorate6850c.lcm	1x	☒	DNU-Confirmation only	8/26/2022 14:05
18	E2200811-008		20220826_018	Perchlorate6850c.lcm	1x	☒	DNU-Confirmation only	8/26/2022 14:13
19	E2200815-003		20220826_019	Perchlorate6850c.lcm	1x	☒	DNU-Confirmation only	8/26/2022 14:22
20	E2200816-003		20220826_020	Perchlorate6850c.lcm	1x	☒	DNU-Confirmation only	8/26/2022 14:31
21	PERCHLORATE7		20220826_021	Perchlorate6850c.lcm	1x	☒	224631	8/26/2022 14:39
22	MeOH		20220826_022	Perchlorate6850c.lcm	1x	☒		8/26/2022 15:17
23	IB		20220826_023	Perchlorate6850c.lcm	1x	☒		8/26/2022 15:26
24	PERCHLORATE7		20220826_024	Perchlorate6850c.lcm	1x	☒	224631	8/26/2022 15:34
25	EQ2200360-01		20220826_025	Perchlorate6850c.lcm	1x	☒		8/26/2022 15:43
26	EQ2200360-02		20220826_026	Perchlorate6850c.lcm	1x	☒		8/26/2022 15:52
27	EQ2200360-03		20220826_027	Perchlorate6850c.lcm	1x	☒	DNU-IR	8/26/2022 16:00
28	EQ2200360-04		20220826_028	Perchlorate6850c.lcm	1x	☒	DNU-over ICAL range	8/26/2022 16:09
29	EQ2200360-05		20220826_029	Perchlorate6850c.lcm	1x	☒	DNU-over ICAL range	8/26/2022 16:18
30	EQ2200360-06		20220826_030	Perchlorate6850c.lcm	1x	☒	Reanalyze: carryover	8/26/2022 16:26
31	EQ2200360-07		20220826_031	Perchlorate6850c.lcm	1x	☒	Reanalyze: carryover	8/26/2022 16:35
32	PERCHLORATE7		20220826_032	Perchlorate6850c.lcm	1x	☒	224631	8/26/2022 16:44
33	MeOH		20220826_033	Perchlorate6850c.lcm	1x	☒		8/26/2022 16:52
34	MeOH		20220826_034	Perchlorate6850c.lcm	1x	☒		8/26/2022 17:01
35	IB		20220826_035	Perchlorate6850c.lcm	1x	☒		8/26/2022 17:09
36	IB		20220826_036	Perchlorate6850c.lcm	1x	☒		8/26/2022 17:18
37	PERCHLORATE7		20220826_037	Perchlorate6850c.lcm	1x	☒	224631	8/26/2022 17:27
38	EQ2200360-06		20220826_038	Perchlorate6850c.lcm	1x	☒		8/26/2022 17:35
39	EQ2200360-07		20220826_039	Perchlorate6850c.lcm	1x	☒		8/26/2022 17:44
40	E2200812-001		20220826_040	Perchlorate6850c.lcm	1x	☒		8/26/2022 17:53
41	E2200812-002		20220826_041	Perchlorate6850c.lcm	1x	☒		8/26/2022 18:01
42	E2200812-003		20220826_042	Perchlorate6850c.lcm	1x	☒		8/26/2022 18:10
43	E2200812-004		20220826_043	Perchlorate6850c.lcm	1x	☒		8/26/2022 18:18
44	E2200812-005		20220826_044	Perchlorate6850c.lcm	1x	☒	DNU-IR	8/26/2022 18:27
45	E2200812-006		20220826_045	Perchlorate6850c.lcm	1x	☒	DNU-IR	8/26/2022 18:36
46	E2200812-007		20220826_046	Perchlorate6850c.lcm	1x	☒	DNU-IR	8/26/2022 18:44
47	E2200812-008		20220826_047	Perchlorate6850c.lcm	1x	☒		8/26/2022 18:53
48	PERCHLORATE7		20220826_048	Perchlorate6850c.lcm	1x	☒	224631	8/26/2022 19:02
49	E2200812-009		20220826_049	Perchlorate6850c.lcm	1x	☒	DNU-over ICAL range	8/26/2022 19:10
50	E2200812-010		20220826_050	Perchlorate6850c.lcm	1x	☒		8/26/2022 19:19
51	E2200817-001		20220826_051	Perchlorate6850c.lcm	1x	☒	DNU-over ICAL range	8/26/2022 19:28
52	E2200817-002		20220826_052	Perchlorate6850c.lcm	1x	☒	DNU-over ICAL range	8/26/2022 19:36
53	E2200817-004		20220826_053	Perchlorate6850c.lcm	1x	☒	Reanalyze: carryover	8/26/2022 19:45
54	E2200817-005		20220826_054	Perchlorate6850c.lcm	1x	☒	DNU-over ICAL range	8/26/2022 19:53
55	E2200817-006		20220826_055	Perchlorate6850c.lcm	1x	☒	Reanalyze: carryover	8/26/2022 20:02
56	E2200817-007		20220826_056	Perchlorate6850c.lcm	1x	☒	Reanalyze: carryover	8/26/2022 20:11
57	E2200817-008		20220826_057	Perchlorate6850c.lcm	1x	☒	Reanalyze: carryover	8/26/2022 20:19
58	E2200817-009		20220826_058	Perchlorate6850c.lcm	1x	☒		8/26/2022 20:28
59	PERCHLORATE7		20220826_059	Perchlorate6850c.lcm	1x	☒	224631	8/26/2022 20:37
60	E2200817-003		20220826_060	Perchlorate6850c.lcm	1x	☒	DNU-over ICAL range	8/26/2022 20:45
61	PERCHLORATE7		20220826_061	Perchlorate6850c.lcm	1x	☒	224631	8/26/2022 20:54
62	IB		20220826_062	Perchlorate6850c.lcm	1x	☒		8/26/2022 21:03
63	IB		20220826_063	Perchlorate6850c.lcm	1x	☒		8/26/2022 21:11
64	null		20220826_064	Perchlorate6850c.lcm	1x	☒		8/26/2022 21:17
65	null		20220826_065	Perchlorate6850c.lcm	1x	☒		8/26/2022 21:22

20220829

1st Review: GRivera
2nd Review: Kneir

Injection Log
LCMS01 -Shimadzu 8050

ICAL Date: 8/16/2022
Cal. Std. xp: 10/29/2022
ICAL ID: **EC2200012**

Mobile Phases **A:** 0.10% Formic Acid/Water 3100820-05 **B:** MeOH 218535

			File Name	Acquisition Method	Dilution	R	Comments	Date/Time
1	null		20220829_001	Perchlorate6850c.lcm	1x	☒		8/29/2022 9:50
2	null		20220829_002	Perchlorate6850c.lcm	1x	☒		8/29/2022 9:56
3	IB		20220829_003	Perchlorate6850c.lcm	1x	☒		8/29/2022 10:02
4	IB		20220829_004	Perchlorate6850c.lcm	1x	☒		8/29/2022 10:10
5	IB		20220829_005	Perchlorate6850c.lcm	1x	☒		8/29/2022 11:20
6	IB		20220829_006	Perchlorate6850c.lcm	1x	☒		8/29/2022 11:38
7	IB		20220829_007	Perchlorate6850c.lcm	1x	☒		8/29/2022 11:46
8	IB		20220829_008	Perchlorate6850c.lcm	1x	☒		8/29/2022 11:55
9	ICS		20220829_009	Perchlorate6850c.lcm	1x	☒		8/29/2022 12:03
10	LODV		20220829_010	Perchlorate6850c.lcm	1x	☒	224622	8/29/2022 12:54
11	PERCHLORATE7		20220829_011	Perchlorate6850c.lcm	1x	☒	224631	8/29/2022 13:02
12	EQ2200360-03		20220829_012	Perchlorate6850c.lcm	1x	☒		8/29/2022 13:11
13	E2200812-005		20220829_013	Perchlorate6850c.lcm	1x	☒		8/29/2022 13:20
14	E2200812-006		20220829_014	Perchlorate6850c.lcm	1x	☒		8/29/2022 13:28
15	E2200812-007		20220829_015	Perchlorate6850c.lcm	1x	☒		8/29/2022 13:37
16	IB		20220829_016	Perchlorate6850c.lcm	1x	☒		8/29/2022 13:45
17	E2200817-004		20220829_017	Perchlorate6850c.lcm	1x	☒		8/29/2022 13:54
18	E2200817-006		20220829_018	Perchlorate6850c.lcm	1x	☒		8/29/2022 14:03
19	E2200817-007		20220829_019	Perchlorate6850c.lcm	1x	☒		8/29/2022 14:11
20	E2200817-008		20220829_020	Perchlorate6850c.lcm	1x	☒		8/29/2022 14:43
21	PERCHLORATE7		20220829_021	Perchlorate6850c.lcm	1x	☒	224631	8/29/2022 14:52
22	IB		20220829_022	Perchlorate6850c.lcm	1x	☒		8/29/2022 15:03
23	IB		20220829_023	Perchlorate6850c.lcm	1x	☒		8/29/2022 15:11
24	IB		20220829_024	Perchlorate6850c.lcm	1x	☒		8/29/2022 15:20
25	PERCHLORATE7		20220829_025	Perchlorate6850c.lcm	1x	☒	224631	8/29/2022 15:32
26	E2200812-009X10		20220829_026	Perchlorate6850c.lcm	10x	☒		8/29/2022 15:40
27	E2200817-001X100		20220829_027	Perchlorate6850c.lcm	100x	☒		8/29/2022 15:49
28	E2200817-002X100		20220829_028	Perchlorate6850c.lcm	100x	☒		8/29/2022 15:57
29	E2200817-003X100		20220829_029	Perchlorate6850c.lcm	100x	☒		8/29/2022 16:06
30	E2200817-005X50		20220829_030	Perchlorate6850c.lcm	50x	☒		8/29/2022 16:15
31	PERCHLORATE7		20220829_031	Perchlorate6850c.lcm	1x	☒	224631	8/29/2022 16:24

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS22080927

Service Request: E2200812
Date Analyzed: 8/26/22

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\20220826\20220826_012

Calibration Date: 8/16/22
Calibration ID: EC2200012
Analysis Lot: 775636
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.05	0.1459	0.1320	-9.5	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS22080927

Service Request: E2200812
Date Analyzed: 8/26/22

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\20220826\20220826_021

Calibration Date: 8/16/22
Calibration ID: EC2200012
Analysis Lot: 775636
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	8.98	0.1459	0.1311	-10.2	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS22080927

Service Request: E2200812
Date Analyzed: 8/26/22

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\20220826\20220826_024

Calibration Date: 8/16/22
Calibration ID: EC2200012
Analysis Lot: 775636
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.41	0.1459	0.1373	-5.9	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS22080927

Service Request: E2200812
Date Analyzed: 8/26/22

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\20220826\20220826_032

Calibration Date: 8/16/22
Calibration ID: EC2200012
Analysis Lot: 775636
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.25	0.1459	0.1349	-7.5	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS22080927

Service Request: E2200812
Date Analyzed: 8/26/22

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\20220826\20220826_037

Calibration Date: 8/16/22
Calibration ID: EC2200012
Analysis Lot: 775636
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.49	0.1459	0.1385	-5.1	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS22080927

Service Request: E2200812
Date Analyzed: 8/26/22

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\20220826\20220826_048

Calibration Date: 8/16/22
Calibration ID: EC2200012
Analysis Lot: 775636
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.50	0.1459	0.1386	-5.0	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS22080927

Service Request: E2200812
Date Analyzed: 8/26/22

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\20220826\20220826_059

Calibration Date: 8/16/22
Calibration ID: EC2200012
Analysis Lot: 775636
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.51	0.1459	0.1388	-4.9	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS22080927

Service Request: E2200812
Date Analyzed: 8/26/22

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\20220826\20220826_061

Calibration Date: 8/16/22
Calibration ID: EC2200012
Analysis Lot: 775636
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.9	0.1459	0.1587	8.8	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS22080927

Service Request: E2200812
Date Analyzed: 8/29/22

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\20220829\20220829_011

Calibration Date: 8/16/22
Calibration ID: EC2200012
Analysis Lot: 775727
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.12	0.1459	0.1331	-8.8	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS22080927

Service Request: E2200812
Date Analyzed: 8/29/22

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\20220829\20220829_021

Calibration Date: 8/16/22
Calibration ID: EC2200012
Analysis Lot: 775727
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.24	0.1459	0.1348	-7.6	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS22080927

Service Request: E2200812
Date Analyzed: 8/29/22

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\20220829\20220829_025

Calibration Date: 8/16/22
Calibration ID: EC2200012
Analysis Lot: 775727
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.21	0.1459	0.1344	-7.9	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS22080927

Service Request: E2200812
Date Analyzed: 8/29/22

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\20220829\20220829_031

Calibration Date: 8/16/22
Calibration ID: EC2200012
Analysis Lot: 775727
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.49	0.1459	0.1385	-5.1	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2200812
Project:	HS22080927	**Date Analyzed:**	8/26/22 13:13

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

File ID:	I:\LCMS01\DATA\20220826\20220826_012	**Lab Code:**	EQ2200378-01
Instrument ID:	E-LCMS-01	**Analysis Lot:**	775636
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	234,661	4.03
	Upper Limit ==>	351,992	6.03
	Lower Limit ==>	117,331	2.03
Associated Analyses			
Continuing Calibration Verification	EQ2200378-01	242,908	3.97

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2200812
Project:	HS22080927	**Date Analyzed:**	8/26/22 14:39

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

File ID:	I:\LCMS01\DATA\20220826\20220826_021	**Lab Code:**	EQ2200378-02
Instrument ID:	E-LCMS-01	**Analysis Lot:**	775636
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	234,661	4.03
	Upper Limit ==>	351,992	6.03
	Lower Limit ==>	117,331	2.03
Associated Analyses			
Continuing Calibration Verification	EQ2200378-02	222,994	3.97

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2200812
Project:	HS22080927	**Date Analyzed:**	8/26/22 15:34

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

File ID:	I:\LCMS01\DATA\20220826\20220826_024	**Lab Code:**	EQ2200378-03
Instrument ID:	E-LCMS-01	**Analysis Lot:**	775636
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	234,661	4.03
	Upper Limit ==>	351,992	6.03
	Lower Limit ==>	117,331	2.03
Associated Analyses			
Continuing Calibration Verification	EQ2200378-03	211,239	3.97
Method Blank	EQ2200360-01	266,385	3.97
Lab Control Sample	EQ2200360-02	262,383	3.97

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2200812
Project:	HS22080927	**Date Analyzed:**	8/26/22 16:44

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

File ID:	I:\LCMS01\DATA\20220826\20220826_032	**Lab Code:**	EQ2200378-04
Instrument ID:	E-LCMS-01	**Analysis Lot:**	775636
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	234,661	4.03
	Upper Limit ==>	351,992	6.03
	Lower Limit ==>	117,331	2.03
Associated Analyses			
Continuing Calibration Verification	EQ2200378-04	208,987	3.97

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2200812
Project:	HS22080927	**Date Analyzed:**	8/26/22 17:27

Internal Standard Area and RT Summary

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

File ID:	I:\LCMS01\DATA\20220826\20220826_037	**Lab Code:**	EQ2200378-05
Instrument ID:	E-LCMS-01	**Analysis Lot:**	775636
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	234,661	4.03
	Upper Limit ==>	351,992	6.03
	Lower Limit ==>	117,331	2.03
Associated Analyses			
Continuing Calibration Verification	EQ2200378-05	213,853	4.22
AWD3_081622	E2200812-001	203,576	4.11
AWD3_081622_a	E2200812-002	197,897	4.10
102_081622	E2200812-003	146,259	4.19
102_081622_a	E2200812-004	147,328	4.19
1824DPTMW04_081622	E2200812-008	221,823	4.11

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2200812
Project:	HS22080927	**Date Analyzed:**	8/26/22 19:02

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

File ID:	I:\LCMS01\DATA\20220826\20220826_048	**Lab Code:**	EQ2200378-06
Instrument ID:	E-LCMS-01	**Analysis Lot:**	775636
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	234,661	4.03
	Upper Limit ==>	351,992	6.03
	Lower Limit ==>	117,331	2.03
Associated Analyses			
Continuing Calibration Verification	EQ2200378-06	184,487	4.22
18WW18_081622	E2200812-010	235,181	4.16

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2200812
Project:	HS22080927	**Date Analyzed:**	8/26/22 20:37

Internal Standard Area and RT Summary

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

File ID:	I:\LCMS01\DATA\20220826\20220826_059	**Lab Code:**	EQ2200378-07
Instrument ID:	E-LCMS-01	**Analysis Lot:**	775636
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	234,661	4.03
	Upper Limit ==>	351,992	6.03
	Lower Limit ==>	117,331	2.03
Associated Analyses			
Continuing Calibration Verification	EQ2200378-07	163,889	4.22

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2200812
Project:	HS22080927	**Date Analyzed:**	8/26/22 20:54

Internal Standard Area and RT Summary

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

File ID:	I:\LCMS01\DATA\20220826\20220826_061	**Lab Code:**	EQ2200378-08
Instrument ID:	E-LCMS-01	**Analysis Lot:**	775636
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	234,661	4.03
	Upper Limit ==>	351,992	6.03
	Lower Limit ==>	117,331	2.03
Associated Analyses			
Continuing Calibration Verification	EQ2200378-08	168,481	4.22

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2200812
Project:	HS22080927	**Date Analyzed:**	8/29/22 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\20220829\20220829_011	**Lab Code:**	EQ2200379-01
Instrument ID:	E-LCMS-01	**Analysis Lot:**	775727
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	234,661	4.03
	Upper Limit ==>	351,992	6.03
	Lower Limit ==>	117,331	2.03
Associated Analyses			
Continuing Calibration Verification	EQ2200379-01	238,927	4.18
Duplicate Lab Control Sample	EQ2200360-03	297,198	4.19
MW16_081622	E2200812-005	207,910	4.12
18WW03_081622	E2200812-006	280,201	4.16
CO8_081622	E2200812-007	279,751	4.09

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2200812
Project:	HS22080927	**Date Analyzed:**	8/29/22 14:52

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

File ID:	I:\LCMS01\DATA\20220829\20220829_021	**Lab Code:**	EQ2200379-02
Instrument ID:	E-LCMS-01	**Analysis Lot:**	775727
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	234,661	4.03
	Upper Limit ==>	351,992	6.03
	Lower Limit ==>	117,331	2.03
Associated Analyses			
Continuing Calibration Verification	EQ2200379-02	224,973	4.19

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2200812
Project:	HS22080927	**Date Analyzed:**	8/29/22 15:32

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

File ID:	I:\LCMS01\DATA\20220829\20220829_025	**Lab Code:**	EQ2200379-03
Instrument ID:	E-LCMS-01	**Analysis Lot:**	775727
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	234,661	4.03
	Upper Limit ==>	351,992	6.03
	Lower Limit ==>	117,331	2.03
Associated Analyses			
Continuing Calibration Verification	EQ2200379-03	223,261	4.19
CO3_081622	E2200812-009	209,642	4.07

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2200812
Project:	HS22080927	**Date Analyzed:**	8/29/22 16:24

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

File ID:	I:\LCMS01\DATA\20220829\20220829_031	**Lab Code:**	EQ2200379-04
Instrument ID:	E-LCMS-01	**Analysis Lot:**	775727
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	234,661	4.03
	Upper Limit ==>	351,992	6.03
	Lower Limit ==>	117,331	2.03
Associated Analyses			
Continuing Calibration Verification	EQ2200379-04	224,240	3.93

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

Insight Report

Printed at 8/29/2022 2:27:38 PM

Method File: I:\LCMS01\DATA\20220826\20220816.lcm
Project File: I:\LCMS01\DATA\20220826\20220826.damlp

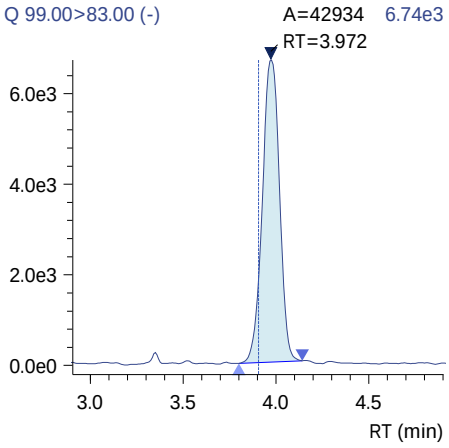
ICS

Sample ID: ICS
Date Acquired: 8/26/2022 12:47:21 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220826\20220826_010.lcd
Vial: 32 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.972	42934	295855	0.9943	ng/mL	40.10	27.56-51.19
Perchlorate 2	Auto	3.973	17215	295855	0.0000	ng/mL	----	
Sodium Perchlorate-18O4_IS	Auto	3.972	295855	295855	1.0000	ng/mL	----	

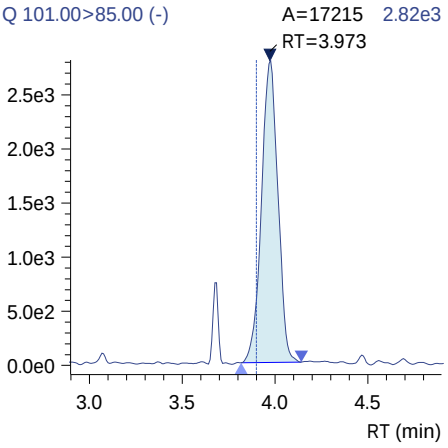
Perchlorate

Conc 0.9943



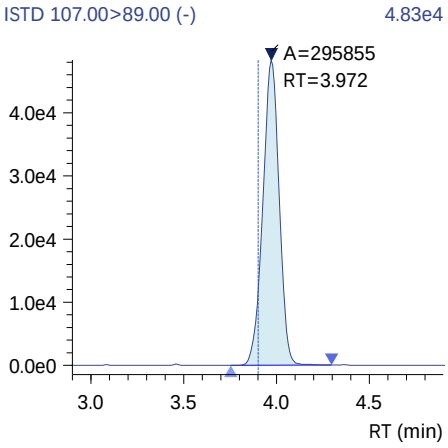
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 8/29/2022 2:32:13 PM

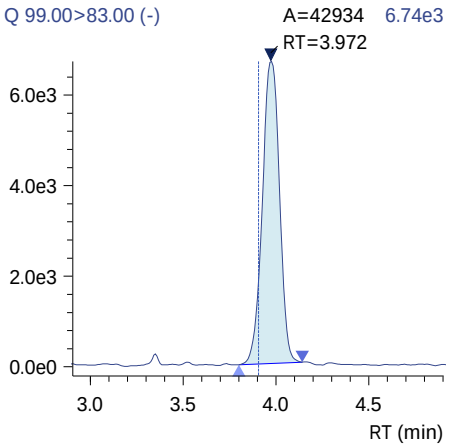
Method File: I:\LCMS01\DATA\20220826\20220816.lcm
Project File: I:\LCMS01\DATA\20220826\20220826.damlp

ICS

Sample ID: ICS
Date Acquired: 8/26/2022 12:47:21 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220826\20220826_010.lcd
Vial: 32 | Inj. Volume: 25.0000uL | Tray: 1

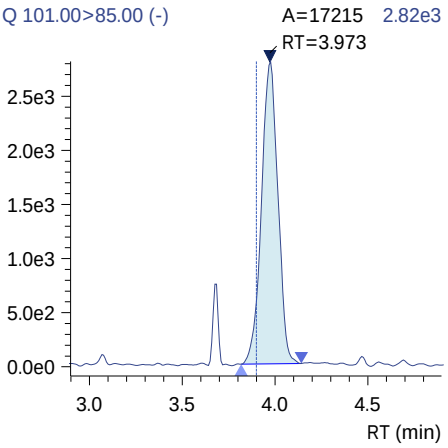
Perchlorate

Conc 0.9943



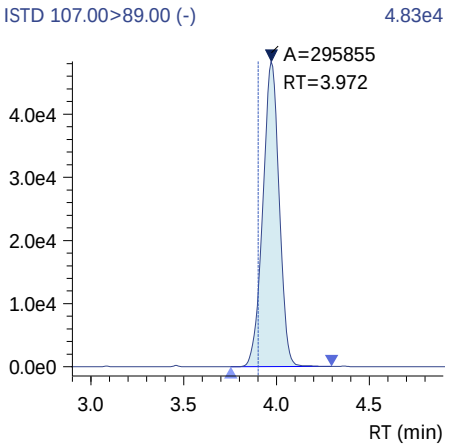
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 8/29/2022 2:27:38 PM

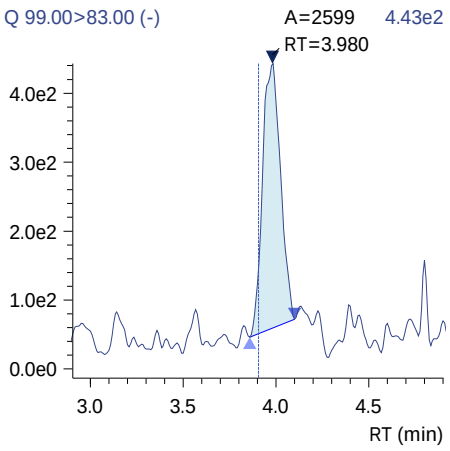
LODV

Sample ID: LODV
Date Acquired: 8/26/2022 1:04:42 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220826\20220826_011.lcd
Vial: 33 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.980	2599	288537	0.0617	ng/mL	45.13	27.56-51.19
Perchlorate 2	Auto	3.972	1173	288537	0.0000	ng/mL	----	
Sodium Perchlorate-18O4_IS	Auto	3.970	288537	288537	1.0000	ng/mL	----	

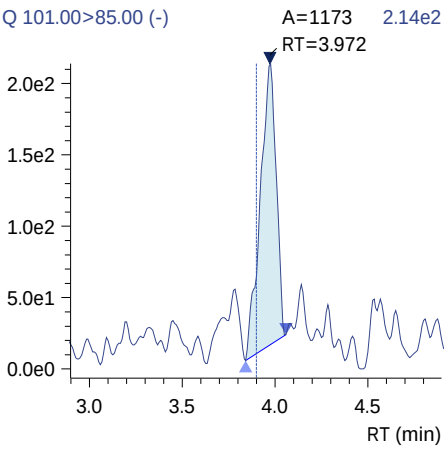
Perchlorate

Conc 0.0617



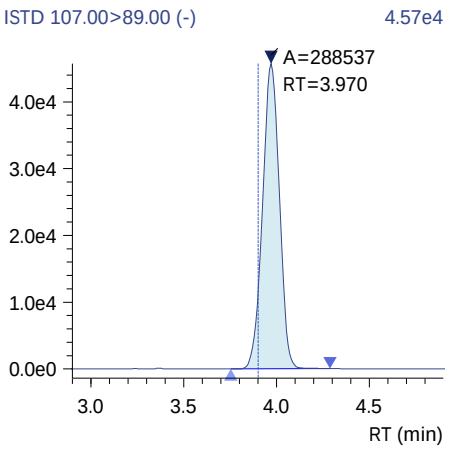
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

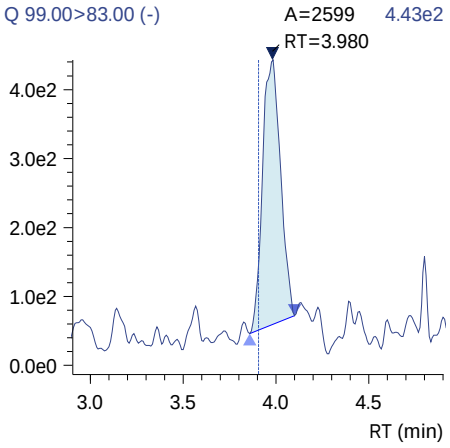
Printed at 8/29/2022 2:32:13 PM

LODV

Sample ID: LODV
Date Acquired: 8/26/2022 1:04:42 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220826\20220826_011.lcd
Vial: 33 | Inj. Volume: 25.0000uL | Tray: 1

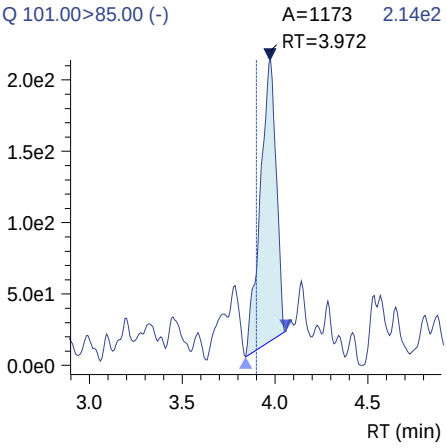
Perchlorate

Conc 0.0617



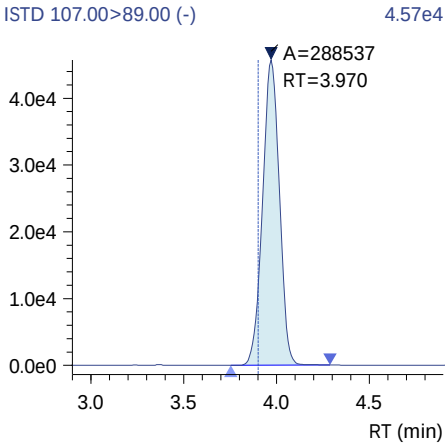
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 8/29/2022 2:27:38 PM

PERCHLORATE7

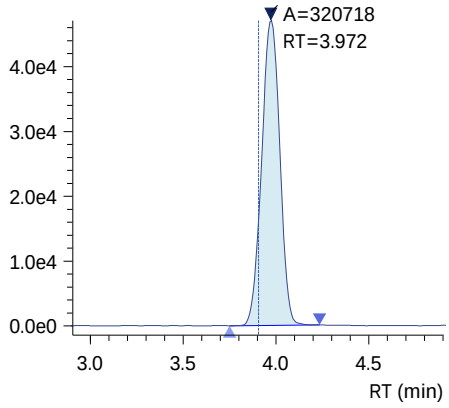
Sample ID: PERCHLORATE7
Date Acquired: 8/26/2022 1:13:22 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220826\20220826_012.lcd
Vial: 26 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.972	320718	242908	9.0464	ng/mL	38.39	27.56-51.19
Perchlorate 2	Auto	3.971	123112	242908	0.0000	ng/mL	----	
Sodium Perchlorate-18O4_IS	Auto	3.971	242908	242908	1.0000	ng/mL	----	

Perchlorate

Conc 9.0464

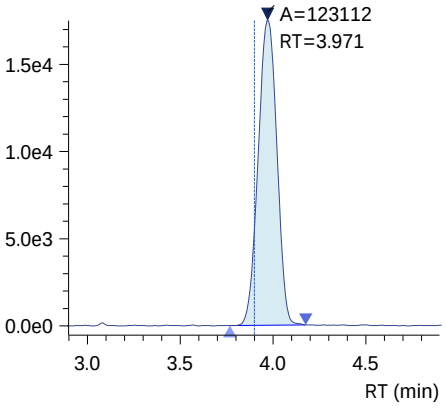
Q 99.00>83.00 (-) 4.71e4



Perchlorate 2

Conc 0.0000

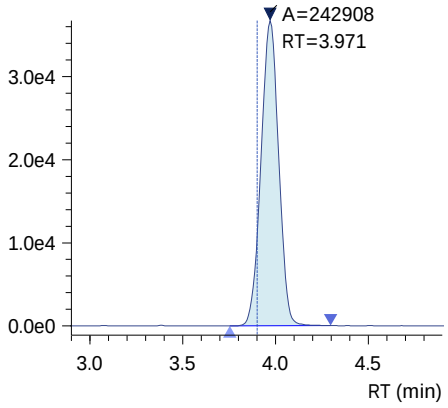
Q 101.00>85.00 (-) 1.75e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.67e4



Insight Report

Printed at 8/29/2022 2:32:13 PM

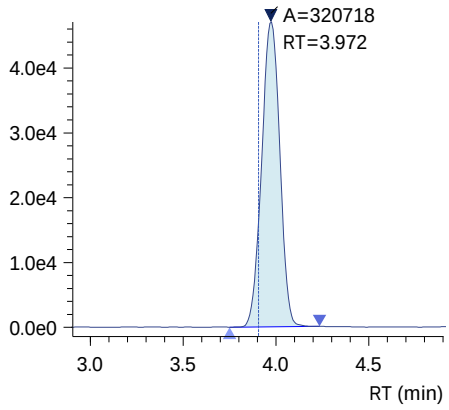
PERCHLORATE7

Sample ID: PERCHLORATE7
Date Acquired: 8/26/2022 1:13:22 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220826\20220826_012.lcd
Vial: 26 | Inj. Volume: 25.0000uL | Tray: 1

Perchlorate

Conc 9.0464

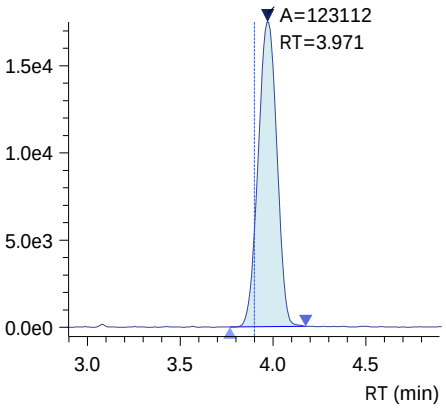
Q 99.00>83.00 (-) 4.71e4



Perchlorate 2

Conc 0.0000

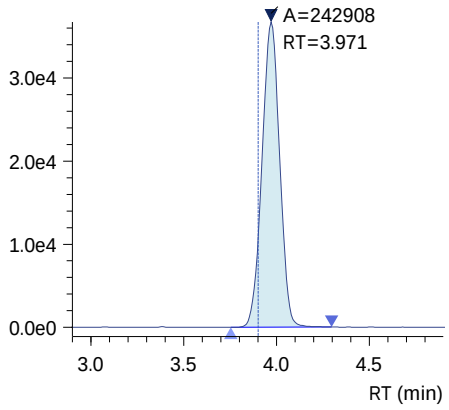
Q 101.00>85.00 (-) 1.75e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.67e4



Insight Report

Printed at 8/29/2022 2:27:38 PM

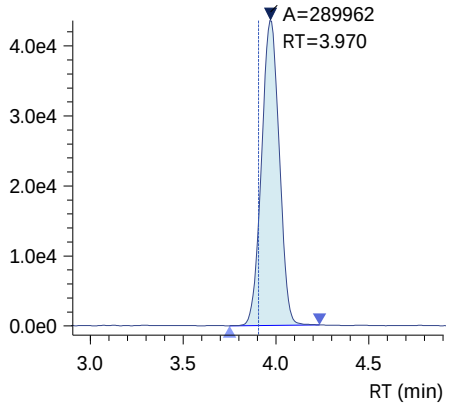
PERCHLORATE7

Sample ID: PERCHLORATE7
Date Acquired: 8/26/2022 3:34:50 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220826\20220826_024.lcd
Vial: 26 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.970	289962	211239	9.4051	ng/mL	39.22	27.56-51.19
Perchlorate 2	Auto	3.971	113721	211239	0.0000	ng/mL	----	
Sodium Perchlorate-18O4_IS	Auto	3.968	211239	211239	1.0000	ng/mL	----	

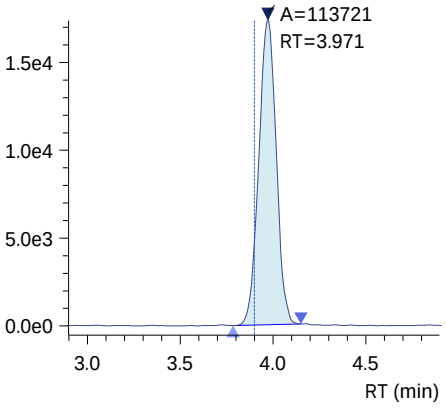
Perchlorate

Conc 9.4051
Q 99.00>83.00 (-) 4.36e4



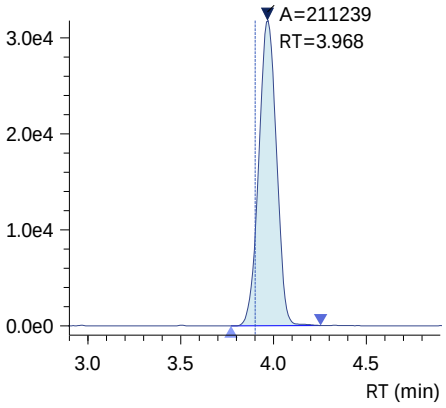
Perchlorate 2

Conc 0.0000
Q 101.00>85.00 (-) 1.74e4



Sodium Perchlorate-18O4_IS

Conc 1.0000
ISTD 107.00>89.00 (-) 3.18e4



Insight Report

Printed at 8/29/2022 2:32:13 PM

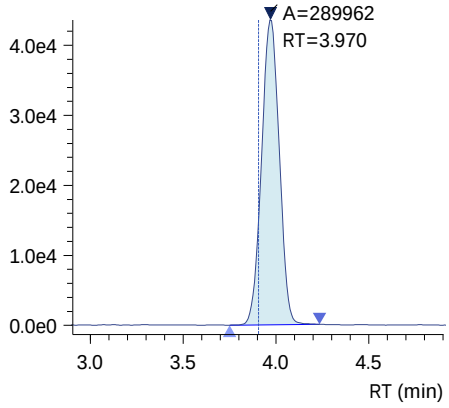
PERCHLORATE7

Sample ID: PERCHLORATE7
Date Acquired: 8/26/2022 3:34:50 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220826\20220826_024.lcd
Vial: 26 | Inj. Volume: 25.0000uL | Tray: 1

Perchlorate

Conc 9.4051

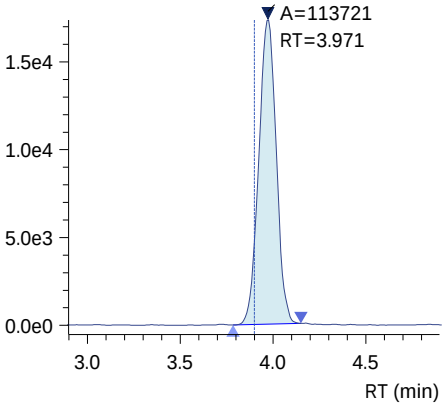
Q 99.00>83.00 (-) 4.36e4



Perchlorate 2

Conc 0.0000

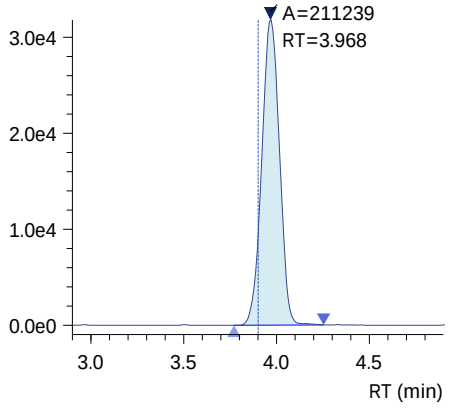
Q 101.00>85.00 (-) 1.74e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.18e4



Insight Report

Printed at 8/29/2022 2:27:38 PM

EQ2200360-01

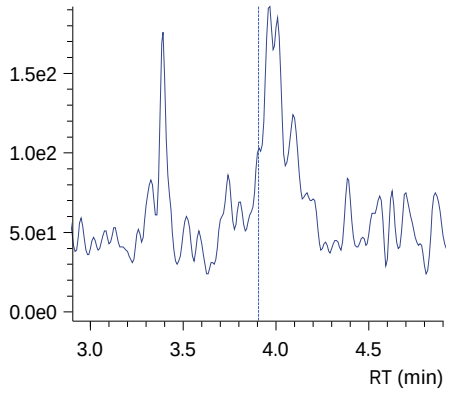
Sample ID: EQ2200360-01
Date Acquired: 8/26/2022 3:43:32 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220826\20220826_025.lcd
Vial: 21 | Inj. Volume: 25.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	266385	----	ng/mL	0.00	27.56-51.19
Perchlorate 2	ND(W/B)	----	----	266385	----	ng/mL	----	
Sodium Perchlorate-18O4_IS	Auto	3.970	266385	266385	1.0000	ng/mL	----	

Perchlorate

Conc ----

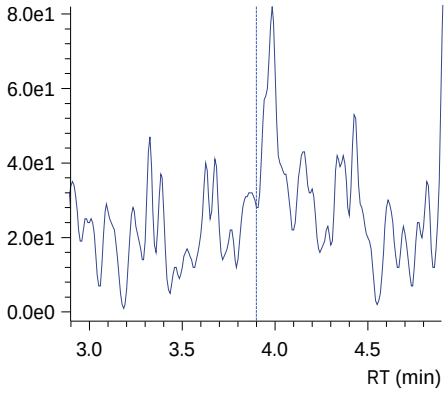
Q 99.00>83.00 (-) 1.92e2



Perchlorate 2

Conc ----

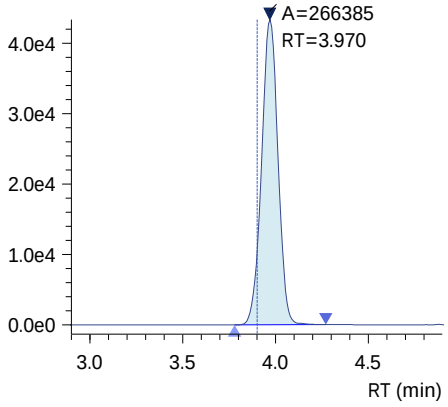
Q 101.00>85.00 (-) 8.20e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 4.34e4



Insight Report

Printed at 8/29/2022 2:32:13 PM

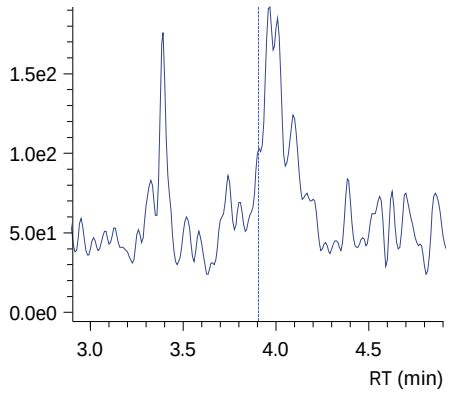
EQ2200360-01

Sample ID: EQ2200360-01
Date Acquired: 8/26/2022 3:43:32 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220826\20220826_025.lcd
Vial: 21 | Inj. Volume: 25.0000uL | Tray: 3

Perchlorate

Conc ----

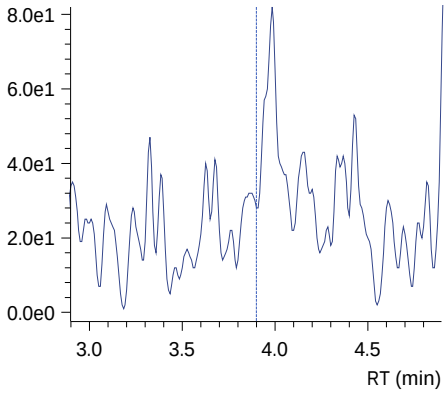
Q 99.00>83.00 (-) 1.92e2



Perchlorate 2

Conc ----

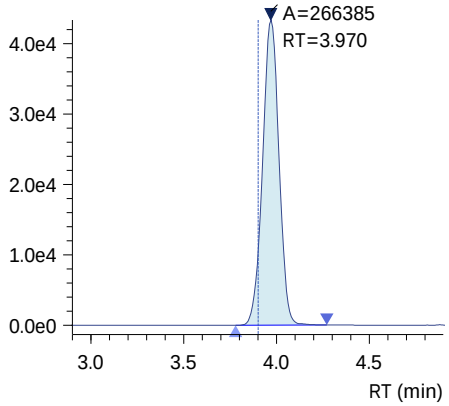
Q 101.00>85.00 (-) 8.20e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 4.34e4



Insight Report

Printed at 8/29/2022 2:27:38 PM

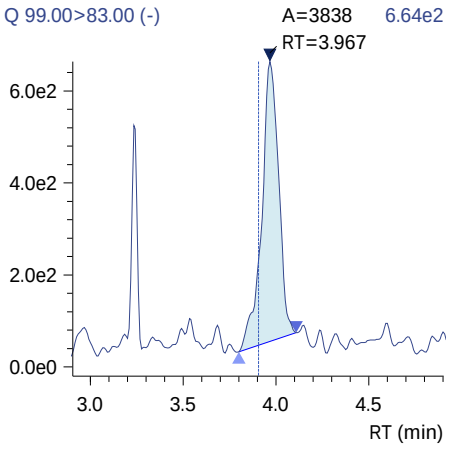
EQ2200360-02

Sample ID: EQ2200360-02
Date Acquired: 8/26/2022 3:52:09 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220826\20220826_026.lcd
Vial: 22 | Inj. Volume: 25.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.967	3838	262383	0.1002	ng/mL	47.50	27.56-51.19
Perchlorate 2	Auto	3.971	1823	262383	0.0000	ng/mL	----	
Sodium Perchlorate-18O4_IS	Auto	3.969	262383	262383	1.0000	ng/mL	----	

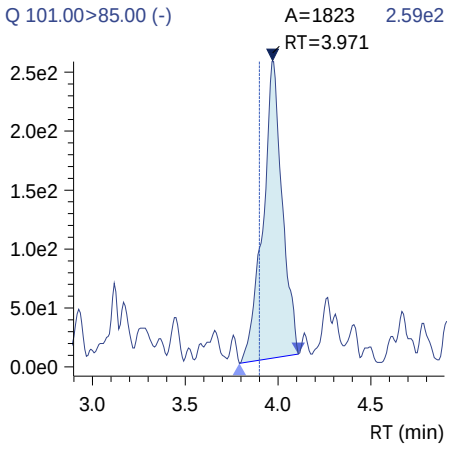
Perchlorate

Conc 0.1002



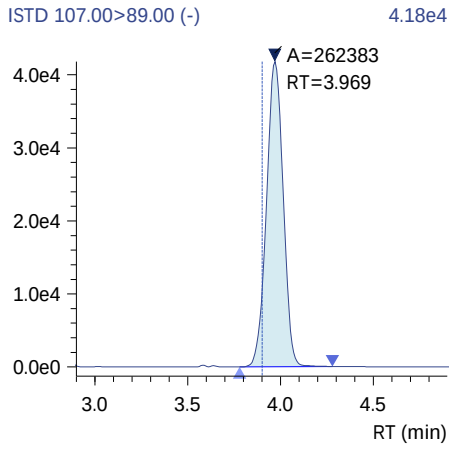
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

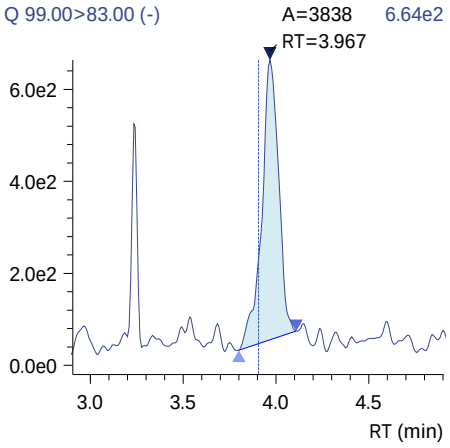
Printed at 8/29/2022 2:32:13 PM

EQ2200360-02

Sample ID: EQ2200360-02
Date Acquired: 8/26/2022 3:52:09 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220826\20220826_026.lcd
Vial: 22 | Inj. Volume: 25.0000uL | Tray: 3

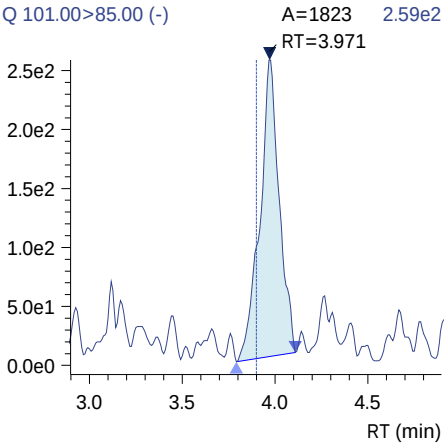
Perchlorate

Conc 0.1002



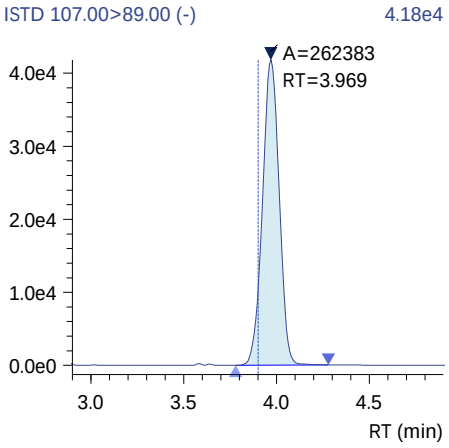
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 8/29/2022 2:27:38 PM

PERCHLORATE7

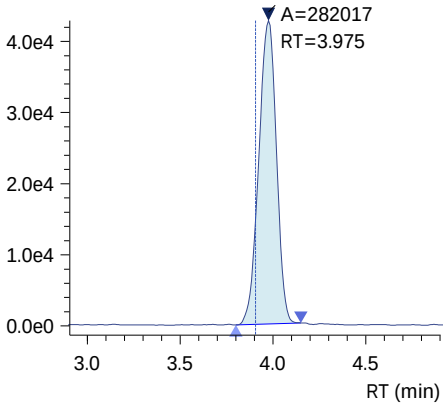
Sample ID: PERCHLORATE7
Date Acquired: 8/26/2022 4:44:01 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220826\20220826_032.lcd
Vial: 26 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.975	282017	208987	9.2460	ng/mL	38.68	27.56-51.19
Perchlorate 2	Auto	3.972	109085	208987	0.0000	ng/mL	----	
Sodium Perchlorate-18O4_IS	Auto	3.969	208987	208987	1.0000	ng/mL	----	

Perchlorate

Conc 9.2460

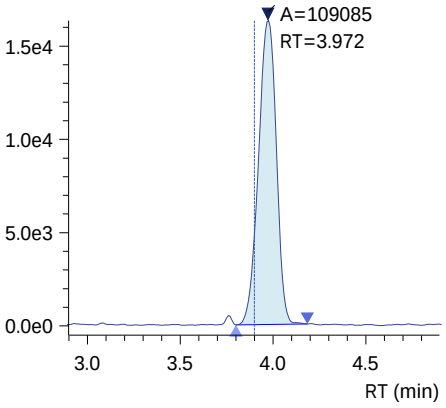
Q 99.00>83.00 (-) 4.29e4



Perchlorate 2

Conc 0.0000

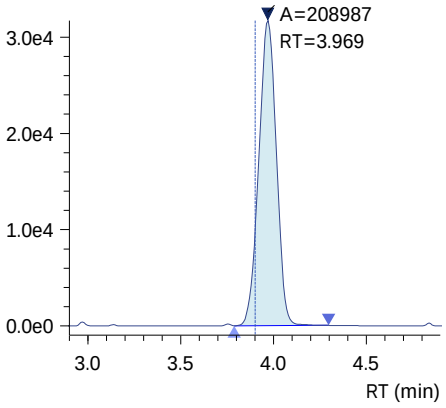
Q 101.00>85.00 (-) 1.64e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.17e4



Insight Report

Printed at 8/29/2022 2:32:13 PM

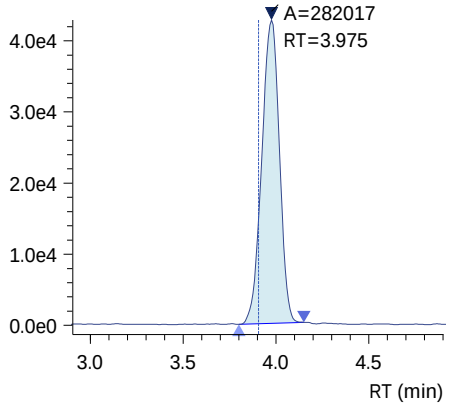
PERCHLORATE7

Sample ID: PERCHLORATE7
Date Acquired: 8/26/2022 4:44:01 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220826\20220826_032.lcd
Vial: 26 | Inj. Volume: 25.0000uL | Tray: 1

Perchlorate

Conc 9.2460

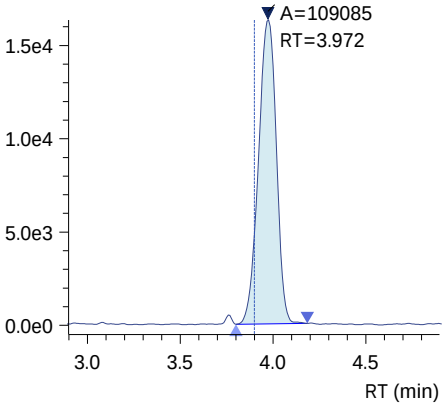
Q 99.00>83.00 (-) 4.29e4



Perchlorate 2

Conc 0.0000

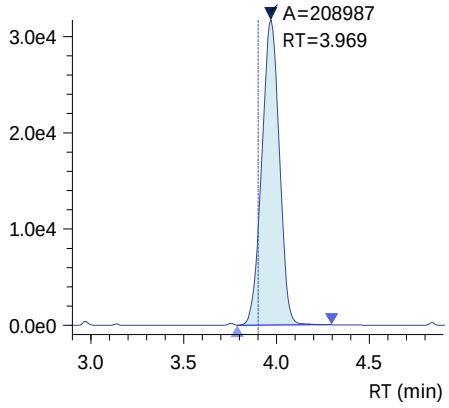
Q 101.00>85.00 (-) 1.64e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.17e4



Insight Report

Printed at 8/29/2022 2:27:38 PM

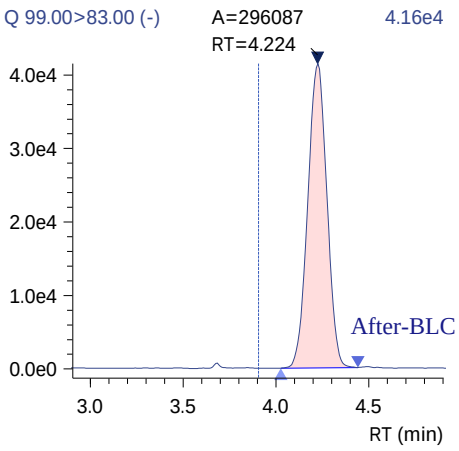
PERCHLORATE7

Sample ID: PERCHLORATE7
Date Acquired: 8/26/2022 5:27:08 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220826\20220826_037.lcd
Vial: 26 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	4.224	296087	213853	9.4864	ng/mL	39.43	27.56-51.19
Perchlorate 2	M	4.222	116739	213853	0.0000	ng/mL	----	
Sodium Perchlorate-18O4_IS	M	4.219	213853	213853	1.0000	ng/mL	----	

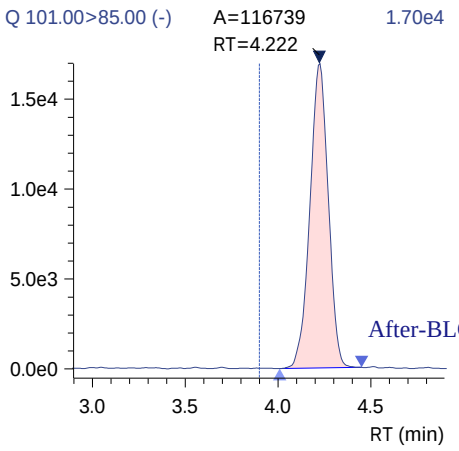
Perchlorate

Conc 9.4864



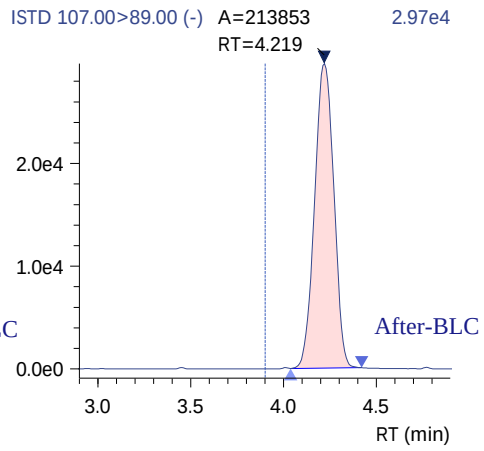
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

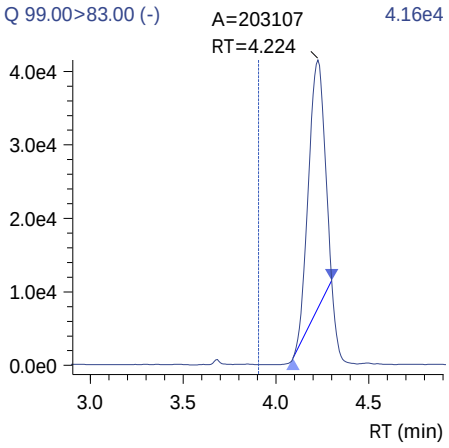
Printed at 8/29/2022 2:32:13 PM

PERCHLORATE7

Sample ID: PERCHLORATE7
Date Acquired: 8/26/2022 5:27:08 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220826\20220826_037.lcd
Vial: 26 | Inj. Volume: 25.0000uL | Tray: 1

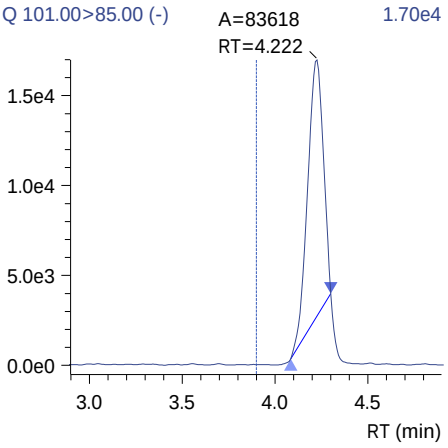
Perchlorate

Conc ----



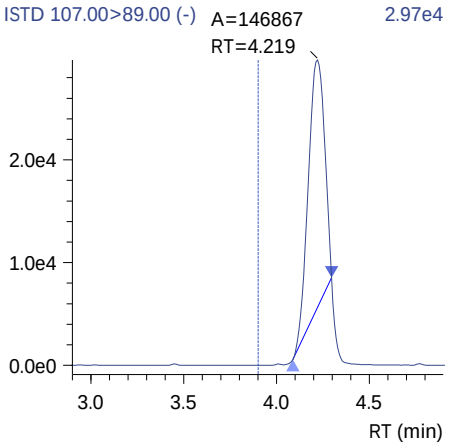
Perchlorate 2

Conc ----



Sodium Perchlorate-18O4_IS

Conc ----



Insight Report

Printed at 8/29/2022 2:27:38 PM

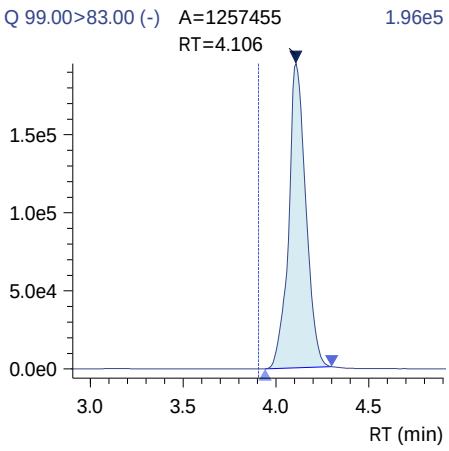
E2200812-001

Sample ID: E2200812-001
Date Acquired: 8/26/2022 5:53:04 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220826\20220826_040.lcd
Vial: 28 | Inj. Volume: 25.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	4.106	1257455	203576	42.3216	ng/mL	39.04	27.56-51.19
Perchlorate 2	Auto	4.101	490879	203576	0.0000	ng/mL	----	
Sodium Perchlorate-18O4_IS	Auto	4.105	203576	203576	1.0000	ng/mL	----	

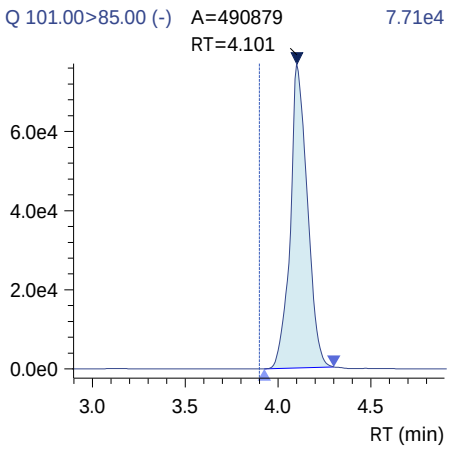
Perchlorate

Conc 42.3216



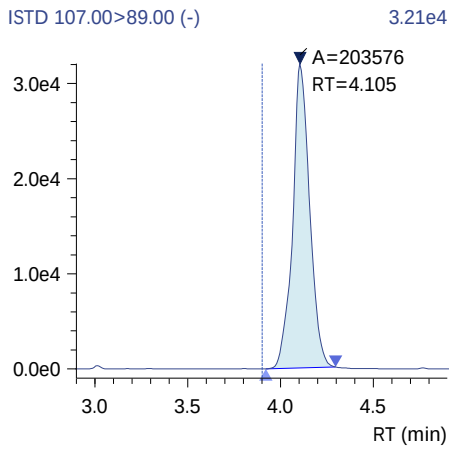
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

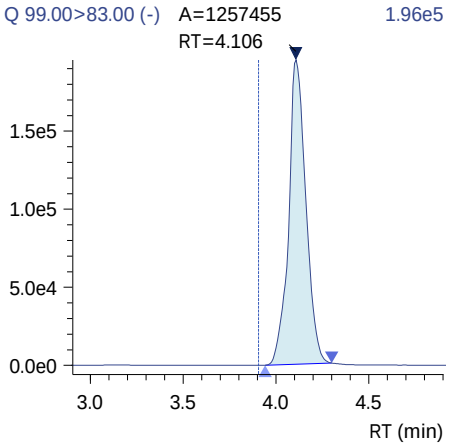
Printed at 8/29/2022 2:32:13 PM

E2200812-001

Sample ID: E2200812-001
Date Acquired: 8/26/2022 5:53:04 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220826\20220826_040.lcd
Vial: 28 | Inj. Volume: 25.0000uL | Tray: 3

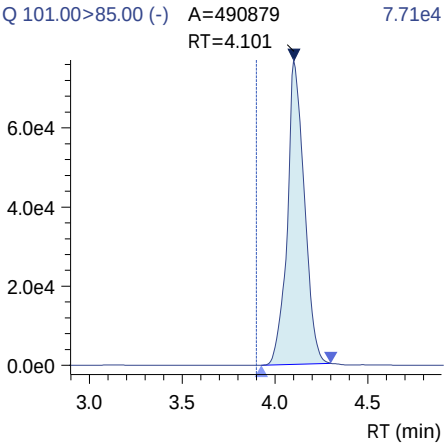
Perchlorate

Conc 42.3216



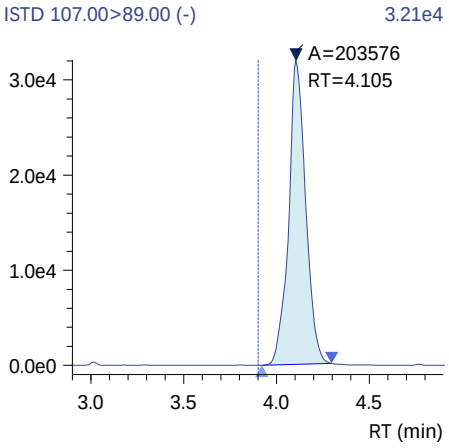
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 8/29/2022 2:27:38 PM

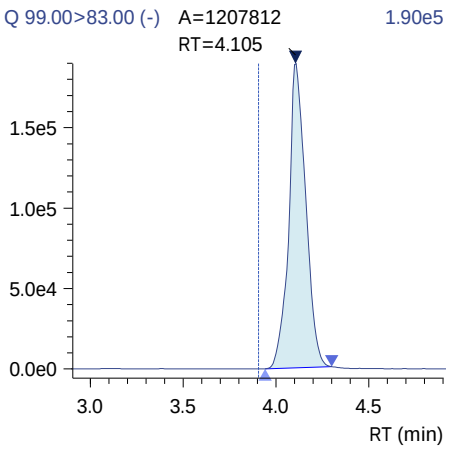
E2200812-002

Sample ID: E2200812-002
Date Acquired: 8/26/2022 6:01:40 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220826\20220826_041.lcd
Vial: 29 | Inj. Volume: 25.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	4.105	1207812	197897	41.8174	ng/mL	39.97	27.56-51.19
Perchlorate 2	Auto	4.103	482768	197897	0.0000	ng/mL	----	
Sodium Perchlorate-18O4_IS	Auto	4.103	197897	197897	1.0000	ng/mL	----	

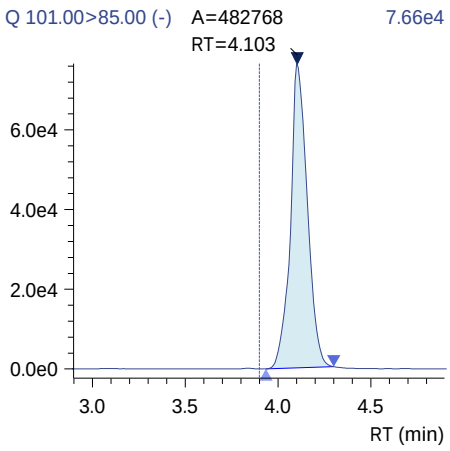
Perchlorate

Conc 41.8174



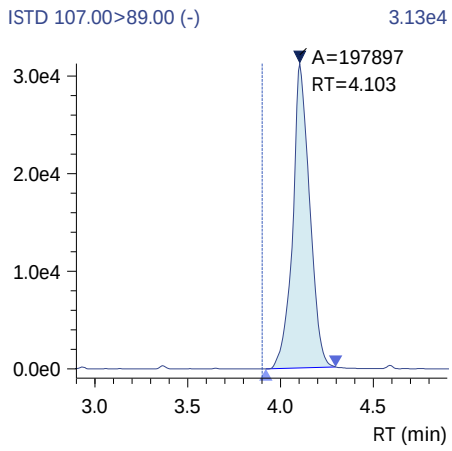
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

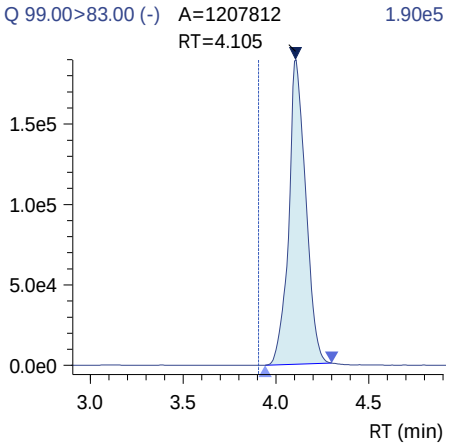
Printed at 8/29/2022 2:32:13 PM

E2200812-002

Sample ID: E2200812-002
Date Acquired: 8/26/2022 6:01:40 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220826\20220826_041.lcd
Vial: 29 | Inj. Volume: 25.0000uL | Tray: 3

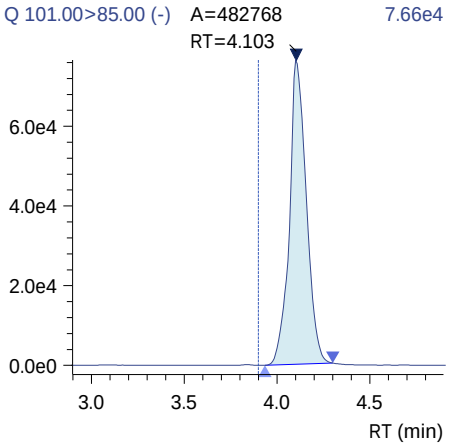
Perchlorate

Conc 41.8174



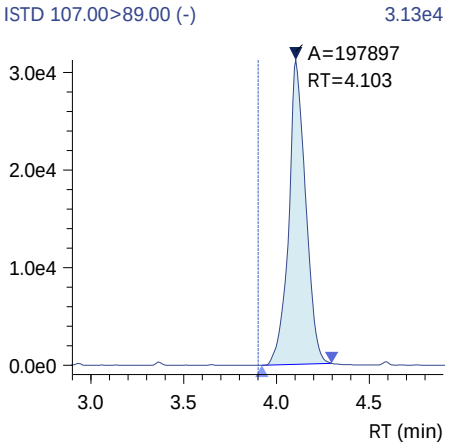
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 8/29/2022 2:27:38 PM

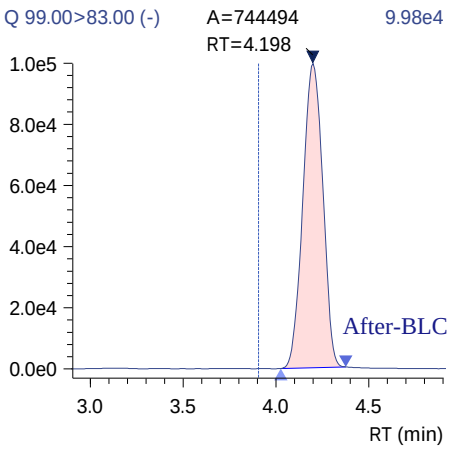
E2200812-003

Sample ID: E2200812-003
Date Acquired: 8/26/2022 6:10:19 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220826\20220826_042.lcd
Vial: 30 | Inj. Volume: 25.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	4.198	744494	146259	34.8767	ng/mL	40.10	27.56-51.19
Perchlorate 2	M	4.193	298576	146259	0.0000	ng/mL	----	
Sodium Perchlorate-18O4_IS	M	4.193	146259	146259	1.0000	ng/mL	----	

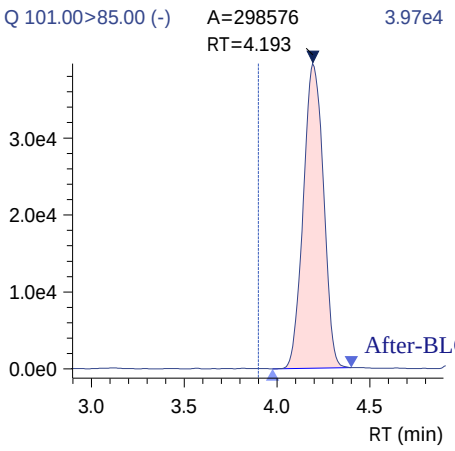
Perchlorate

Conc 34.8767



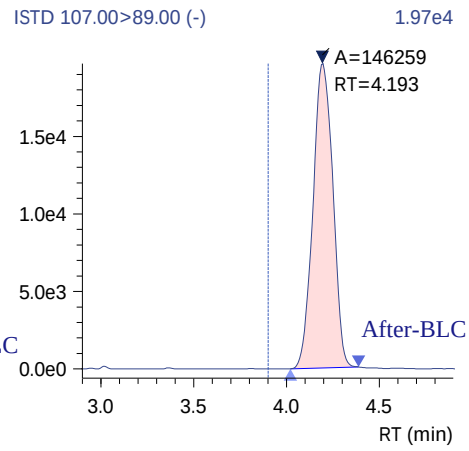
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

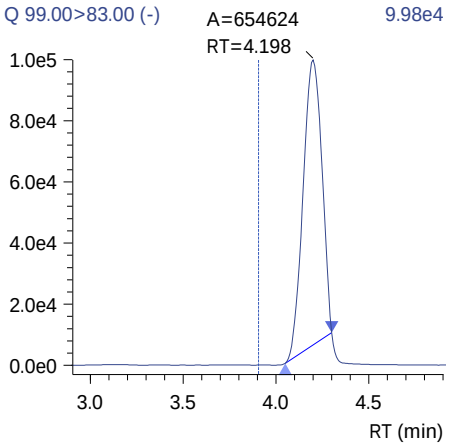
Printed at 8/29/2022 2:32:13 PM

E2200812-003

Sample ID: E2200812-003
Date Acquired: 8/26/2022 6:10:19 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220826\20220826_042.lcd
Vial: 30 | Inj. Volume: 25.0000uL | Tray: 3

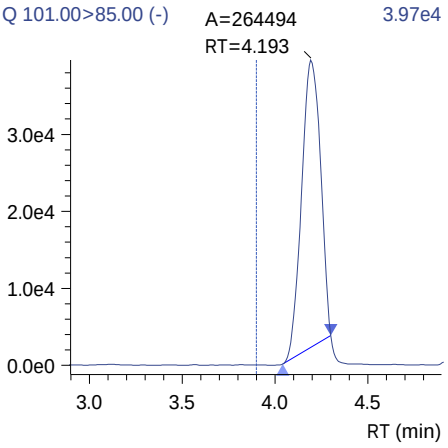
Perchlorate

Conc ----



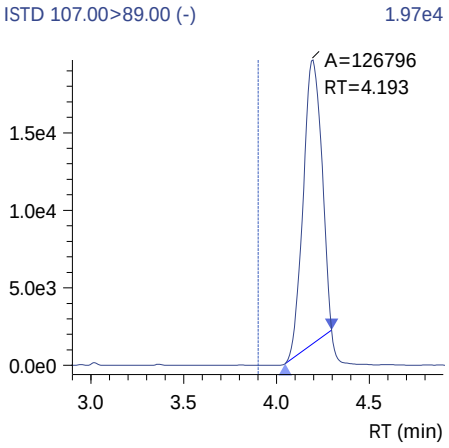
Perchlorate 2

Conc ----



Sodium Perchlorate-18O4_IS

Conc ----



Insight Report

Printed at 8/29/2022 2:27:38 PM

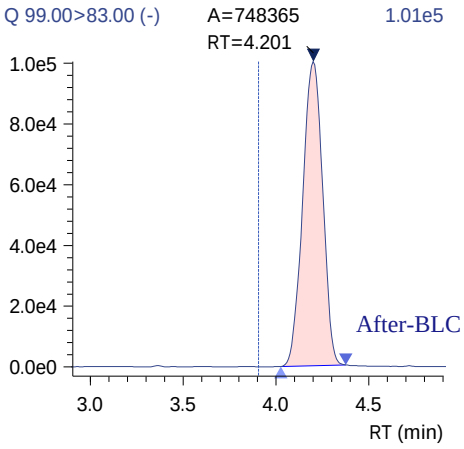
E2200812-004

Sample ID: E2200812-004
Date Acquired: 8/26/2022 6:18:55 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220826\20220826_043.lcd
Vial: 31 | Inj. Volume: 25.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	4.201	748365	147328	34.8036	ng/mL	39.91	27.56-51.19
Perchlorate 2	M	4.195	298688	147328	0.0000	ng/mL	----	
Sodium Perchlorate-18O4_IS	M	4.193	147328	147328	1.0000	ng/mL	----	

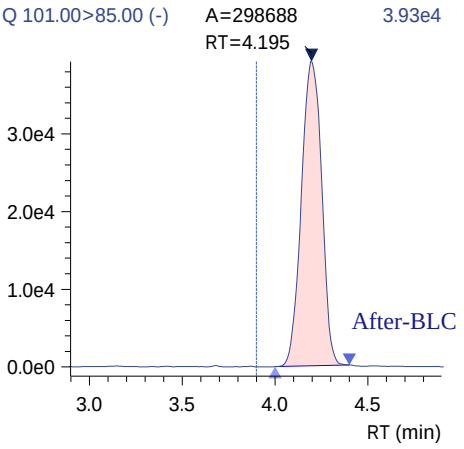
Perchlorate

Conc 34.8036



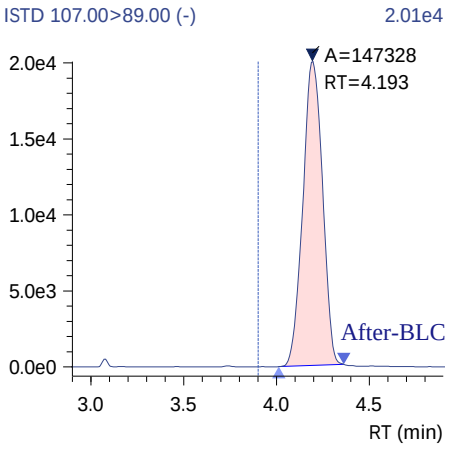
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

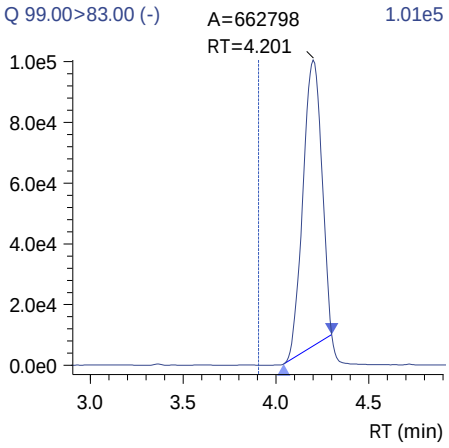
Printed at 8/29/2022 2:32:13 PM

E2200812-004

Sample ID: E2200812-004
Date Acquired: 8/26/2022 6:18:55 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220826\20220826_043.lcd
Vial: 31 | Inj. Volume: 25.0000uL | Tray: 3

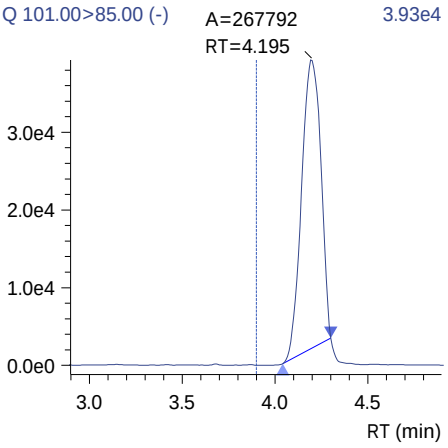
Perchlorate

Conc ----



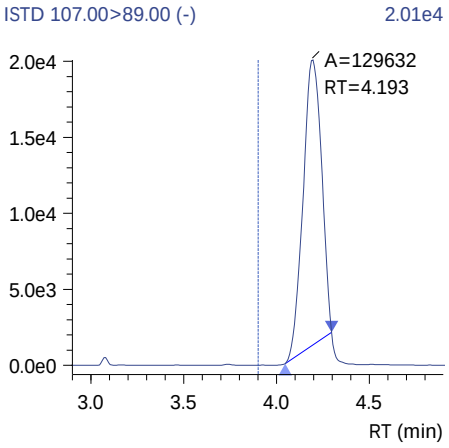
Perchlorate 2

Conc ----



Sodium Perchlorate-18O4_IS

Conc ----



Insight Report

Printed at 8/29/2022 2:27:38 PM

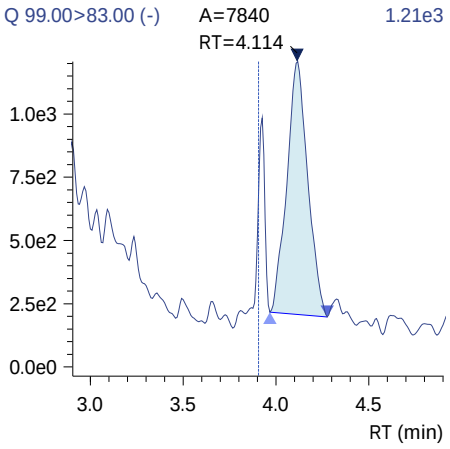
E2200812-008

Sample ID: E2200812-008
Date Acquired: 8/26/2022 6:53:24 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220826\20220826_047.lcd
Vial: 35 | Inj. Volume: 25.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	4.114	7840	221823	0.2422	ng/mL	41.44	27.56-51.19
Perchlorate 2	MI	4.115	3249	221823	0.0000	ng/mL	----	
Sodium Perchlorate-18O4_IS	Auto	4.114	221823	221823	1.0000	ng/mL	----	

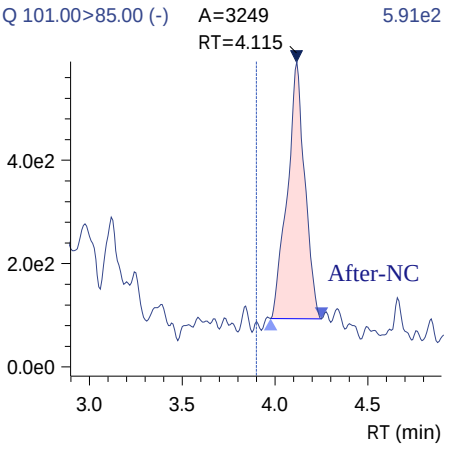
Perchlorate

Conc 0.2422



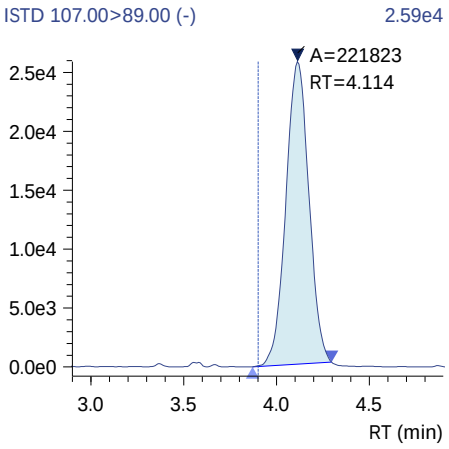
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

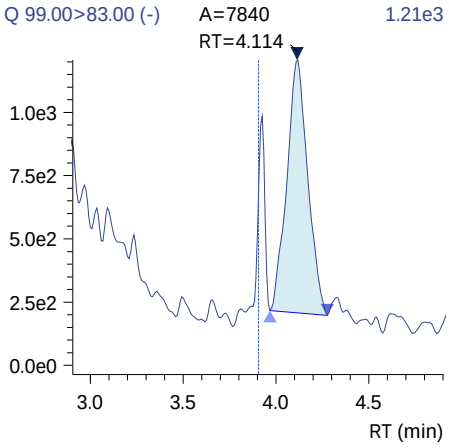
Printed at 8/29/2022 2:32:13 PM

E2200812-008

Sample ID: E2200812-008
Date Acquired: 8/26/2022 6:53:24 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220826\20220826_047.lcd
Vial: 35 | Inj. Volume: 25.0000uL | Tray: 3

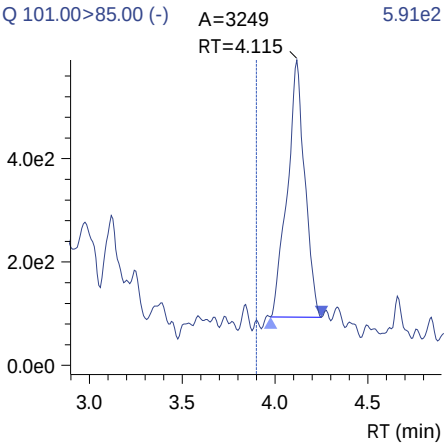
Perchlorate

Conc 0.2422



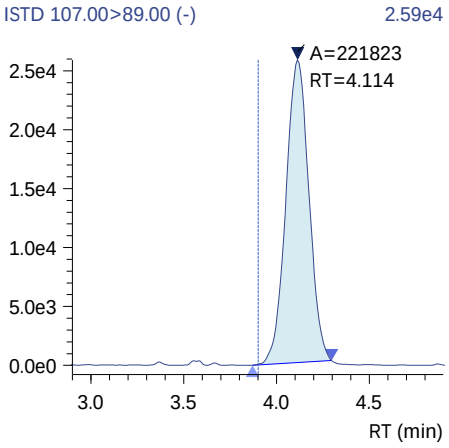
Perchlorate 2

Conc ----



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 8/29/2022 2:27:38 PM

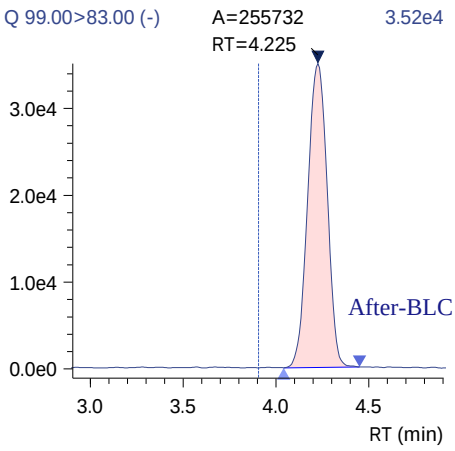
PERCHLORATE7

Sample ID: PERCHLORATE7
Date Acquired: 8/26/2022 7:02:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220826\20220826_048.lcd
Vial: 26 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	4.225	255732	184487	9.4976	ng/mL	39.82	27.56-51.19
Perchlorate 2	M	4.217	101841	184487	0.0000	ng/mL	----	
Sodium Perchlorate-18O4_IS	M	4.222	184487	184487	1.0000	ng/mL	----	

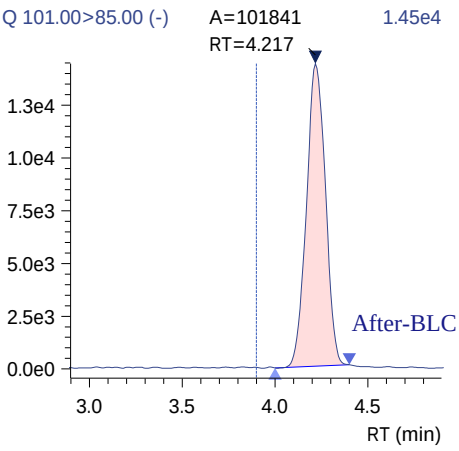
Perchlorate

Conc 9.4976



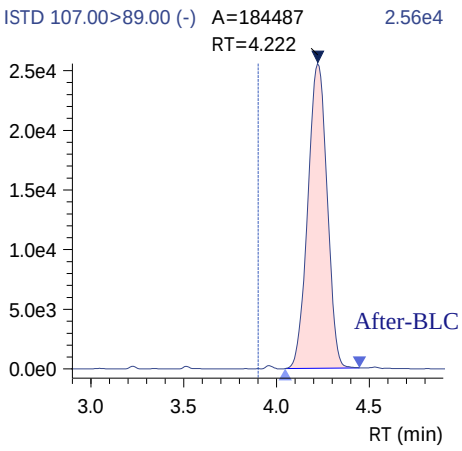
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

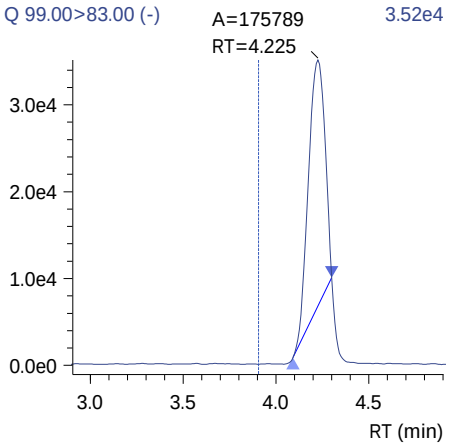
Printed at 8/29/2022 2:32:13 PM

PERCHLORATE7

Sample ID: PERCHLORATE7
Date Acquired: 8/26/2022 7:02:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220826\20220826_048.lcd
Vial: 26 | Inj. Volume: 25.0000uL | Tray: 1

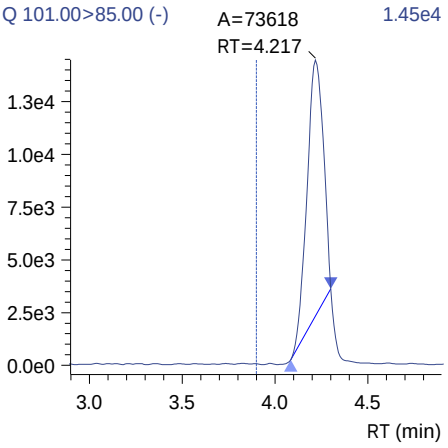
Perchlorate

Conc ----



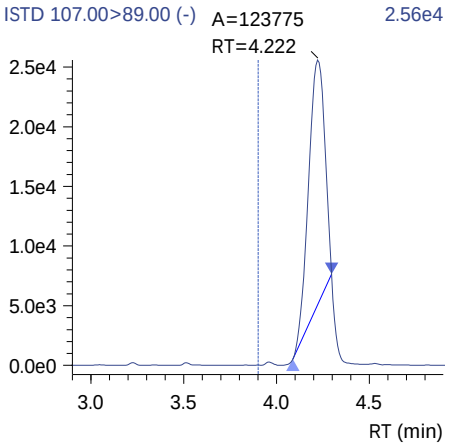
Perchlorate 2

Conc ----



Sodium Perchlorate-18O4_IS

Conc ----



Insight Report

Printed at 8/29/2022 2:27:38 PM

E2200812-010

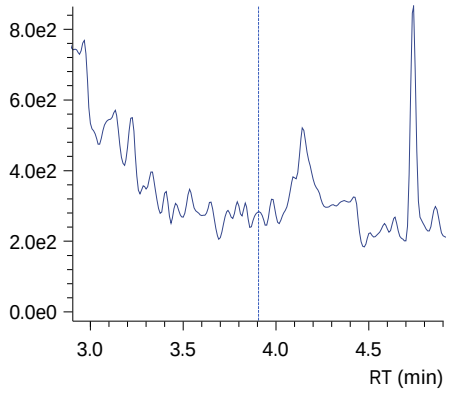
Sample ID: E2200812-010
Date Acquired: 8/26/2022 7:19:20 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220826\20220826_050.lcd
Vial: 37 | Inj. Volume: 25.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	235181	----	ng/mL	0.00	27.56-51.19
Perchlorate 2	ND(W/B)	----	----	235181	----	ng/mL	----	
Sodium Perchlorate-18O4_IS	M	4.164	235181	235181	1.0000	ng/mL	----	

Perchlorate

Conc ----

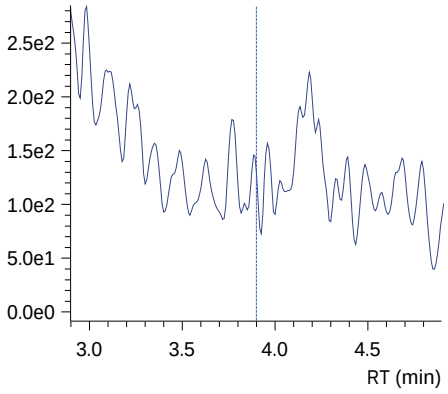
Q 99.00>83.00 (-) 8.64e2



Perchlorate 2

Conc ----

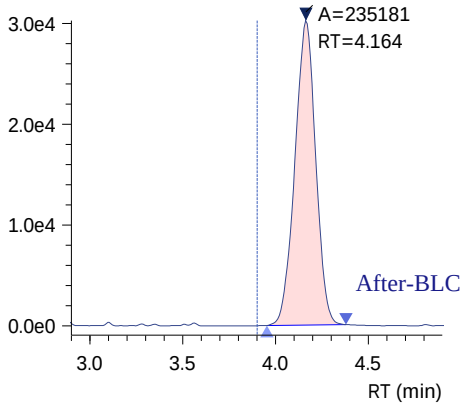
Q 101.00>85.00 (-) 2.84e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.03e4



Insight Report

Printed at 8/29/2022 2:32:13 PM

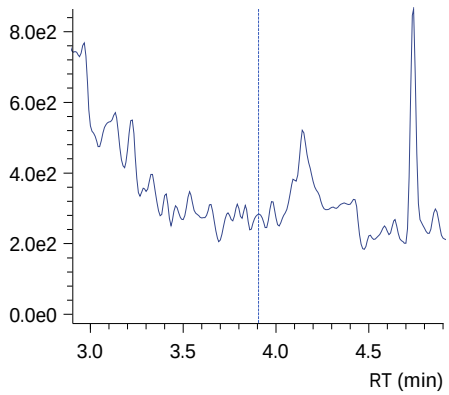
E2200812-010

Sample ID: E2200812-010
Date Acquired: 8/26/2022 7:19:20 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220826\20220826_050.lcd
Vial: 37 | Inj. Volume: 25.0000uL | Tray: 3

Perchlorate

Conc ----

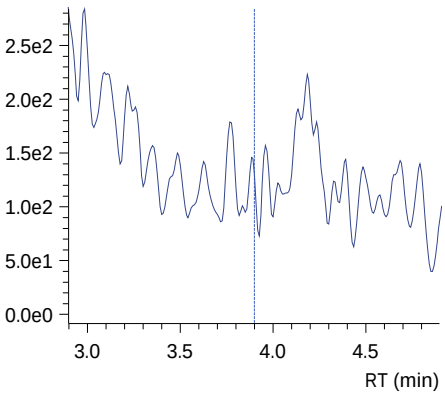
Q 99.00>83.00 (-) 8.64e2



Perchlorate 2

Conc ----

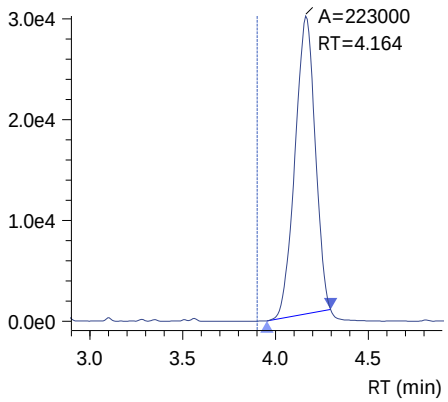
Q 101.00>85.00 (-) 2.84e2



Sodium Perchlorate-18O4_IS

Conc ----

ISTD 107.00>89.00 (-) 3.03e4



Insight Report

Printed at 8/29/2022 2:27:38 PM

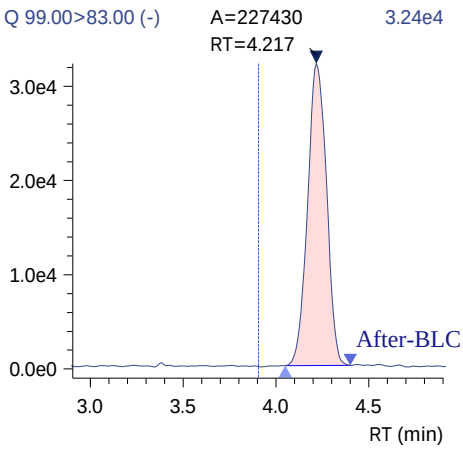
PERCHLORATE7

Sample ID: PERCHLORATE7
Date Acquired: 8/26/2022 8:37:08 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220826\20220826_059.lcd
Vial: 26 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	4.217	227430	163889	9.5081	ng/mL	40.08	27.56-51.19
Perchlorate 2	M	4.220	91142	163889	0.0000	ng/mL	----	
Sodium Perchlorate-18O4_IS	M	4.215	163889	163889	1.0000	ng/mL	----	

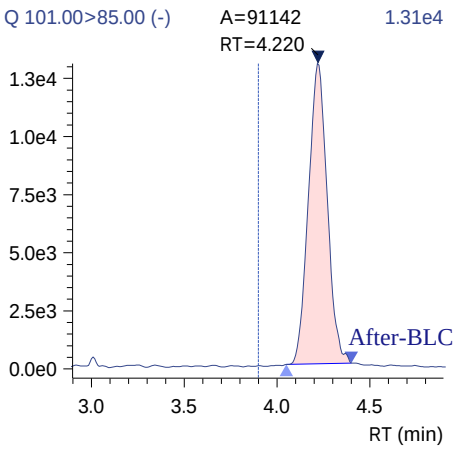
Perchlorate

Conc 9.5081



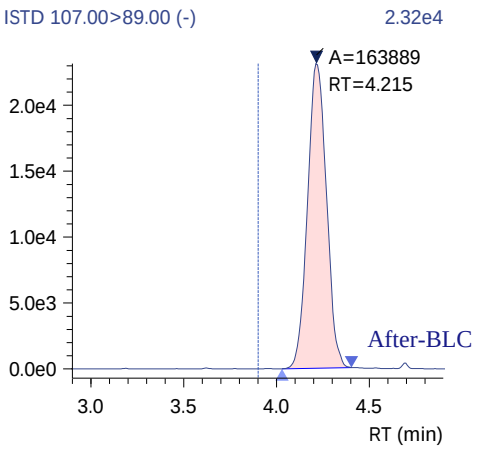
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

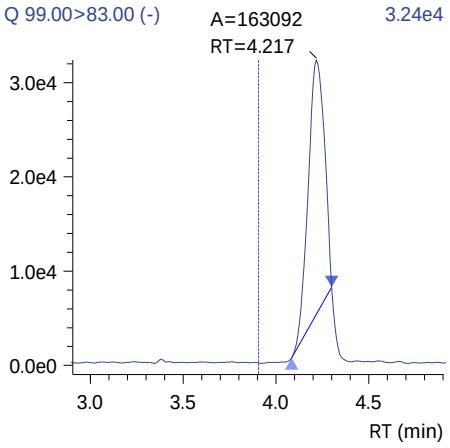
Printed at 8/29/2022 2:32:13 PM

PERCHLORATE7

Sample ID: PERCHLORATE7
Date Acquired: 8/26/2022 8:37:08 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220826\20220826_059.lcd
Vial: 26 | Inj. Volume: 25.0000uL | Tray: 1

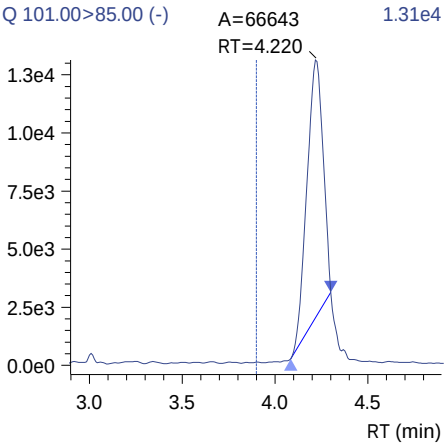
Perchlorate

Conc ----



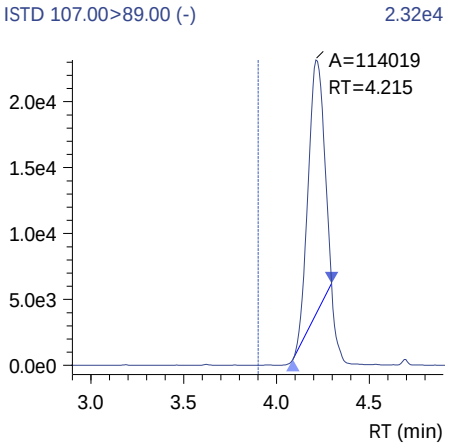
Perchlorate 2

Conc ----



Sodium Perchlorate-18O4_IS

Conc ----



Insight Report

Printed at 9/9/2022 2:53:12 PM

Method File: I:\LCMS01\DATA\20220829\20220816.lcm
Project File: I:\LCMS01\DATA\20220829\20220829.damlp

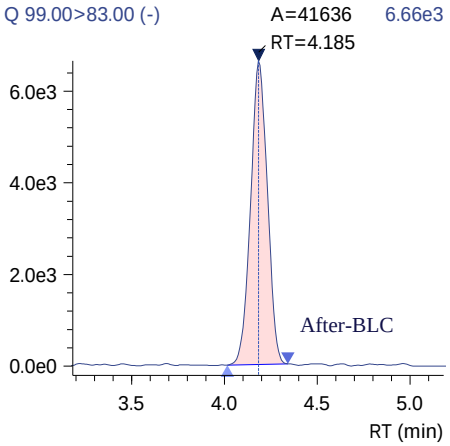
ICS

Sample ID: ICS
Date Acquired: 8/29/2022 12:03:59 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220829\20220829_009.lcd
Vial: 32 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	4.185	41636	289775	0.9845	ng/mL	38.43	27.20-50.52
Perchlorate 2	M	4.188	15999	289775	0.0000	ng/mL	----	
Sodium Perchlorate-18O4_IS	M	4.183	289775	289775	1.0000	ng/mL	----	

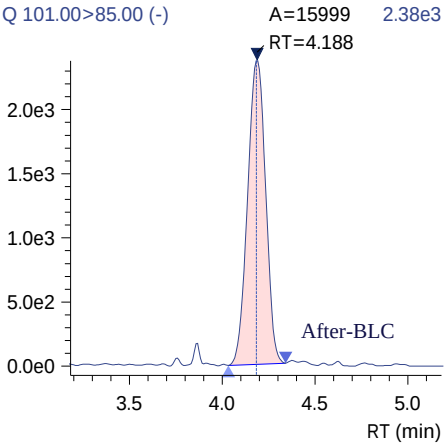
Perchlorate

Conc 0.9845



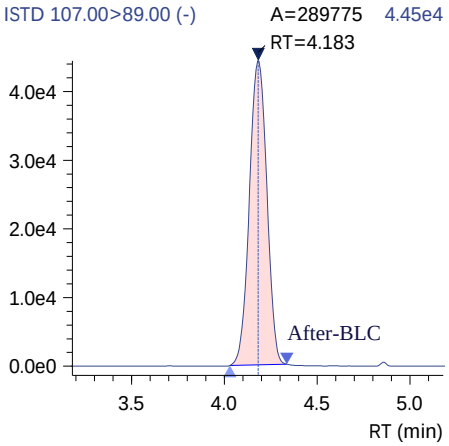
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 9/9/2022 2:54:49 PM

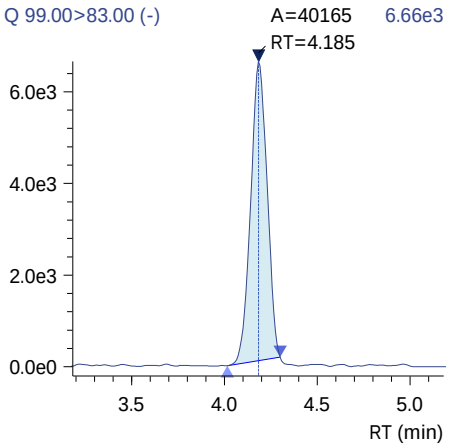
Method File: I:\LCMS01\DATA\20220829\20220816.lcm
Project File: I:\LCMS01\DATA\20220829\20220829.damlp

ICS

Sample ID: ICS
Date Acquired: 8/29/2022 12:03:59 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220829\20220829_009.lcd
Vial: 32 | Inj. Volume: 25.0000uL | Tray: 1

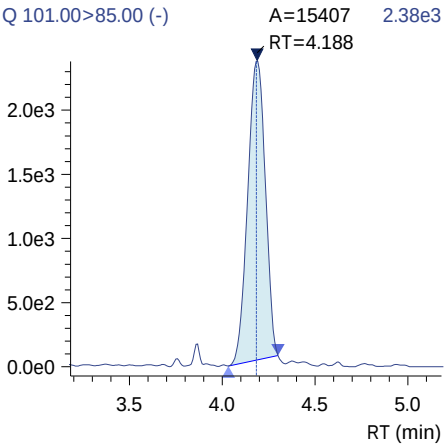
Perchlorate

Conc 0.9814



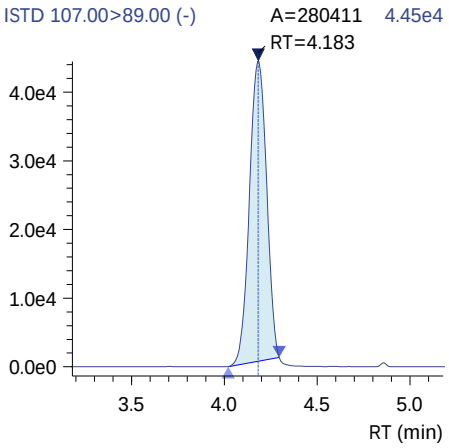
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 9/9/2022 2:53:12 PM

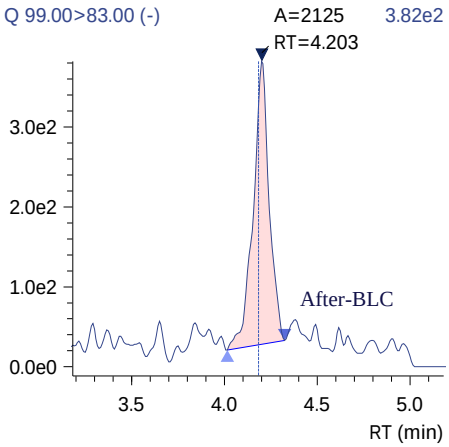
LODV

Sample ID: LODV
Date Acquired: 8/29/2022 12:54:06 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220829\20220829_010.lcd
Vial: 33 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	4.203	2125	303044	0.0480	ng/mL	48.24	27.20-50.52
Perchlorate 2	M	4.159	1025	303044	0.0000	ng/mL	----	
Sodium Perchlorate-18O4_IS	M	4.186	303044	303044	1.0000	ng/mL	----	

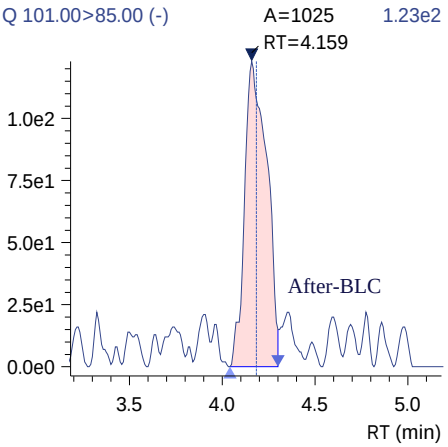
Perchlorate

Conc 0.0480



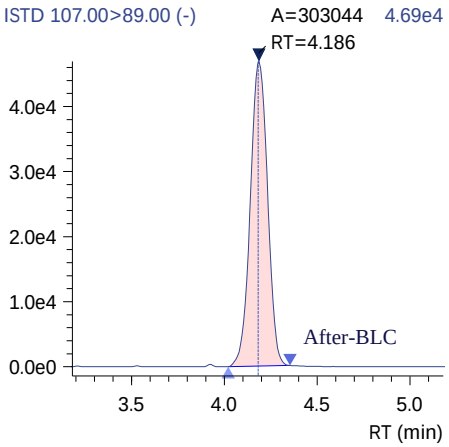
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

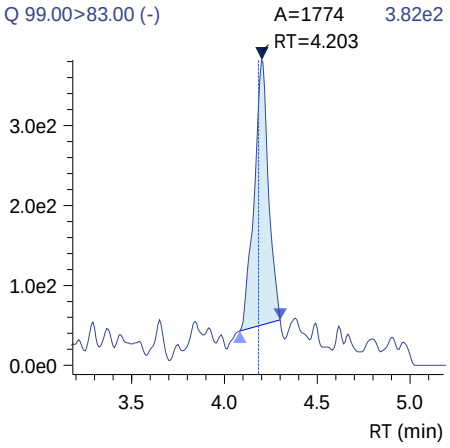
Printed at 9/9/2022 2:54:49 PM

LODV

Sample ID: LODV
Date Acquired: 8/29/2022 12:54:06 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220829\20220829_010.lcd
Vial: 33 | Inj. Volume: 25.0000uL | Tray: 1

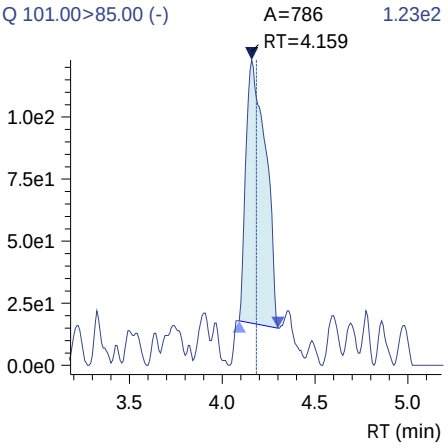
Perchlorate

Conc 0.0423



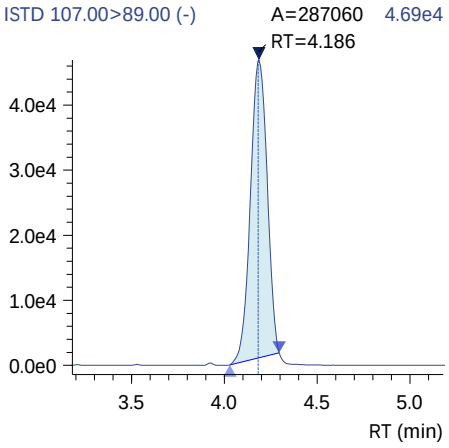
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 9/9/2022 2:53:12 PM

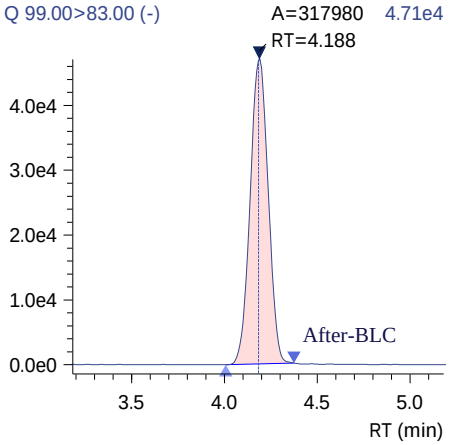
PERCHLORATE7

Sample ID: PERCHLORATE7
Date Acquired: 8/29/2022 1:02:46 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220829\20220829_011.lcd
Vial: 26 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	4.188	317980	238927	9.1187	ng/mL	38.41	27.20-50.52
Perchlorate 2	M	4.188	122120	238927	0.0000	ng/mL	----	
Sodium Perchlorate-18O4_IS	M	4.183	238927	238927	1.0000	ng/mL	----	

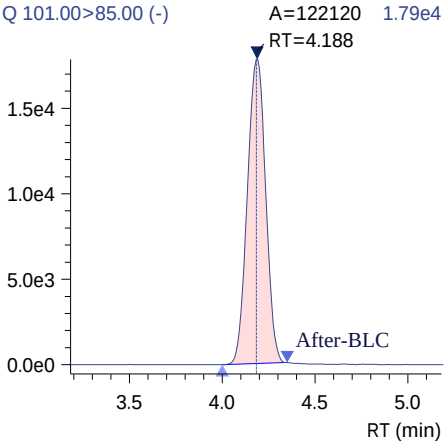
Perchlorate

Conc 9.1187



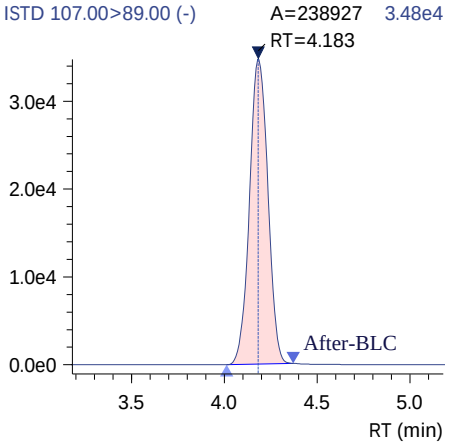
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

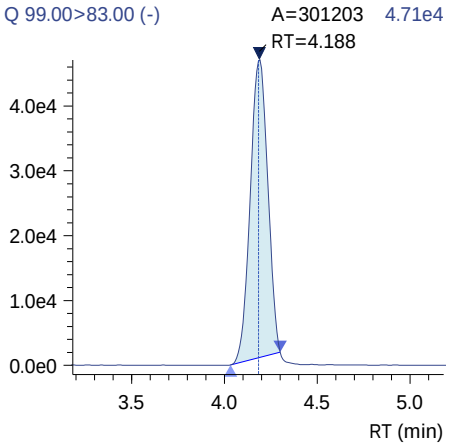
Printed at 9/9/2022 2:54:49 PM

PERCHLORATE7

Sample ID: PERCHLORATE7
Date Acquired: 8/29/2022 1:02:46 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220829\20220829_011.lcd
Vial: 26 | Inj. Volume: 25.0000uL | Tray: 1

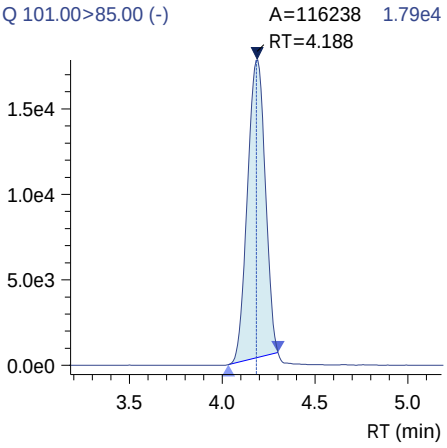
Perchlorate

Conc 9.2981



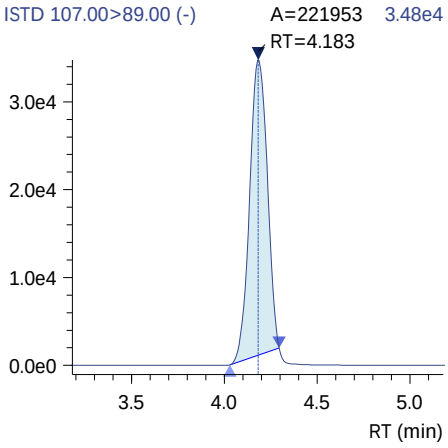
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 9/9/2022 2:53:12 PM

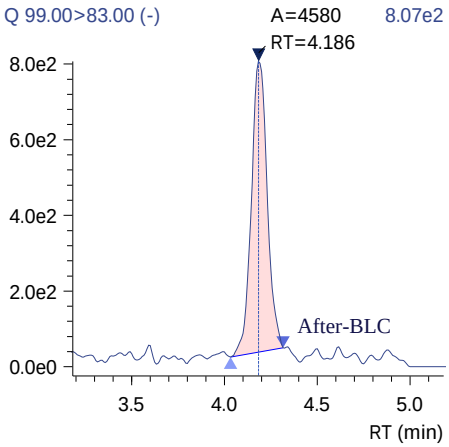
EQ2200360-03

Sample ID: EQ2200360-03
Date Acquired: 8/29/2022 1:11:23 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220829\20220829_012.lcd
Vial: 23 | Inj. Volume: 25.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	4.186	4580	297198	0.1056	ng/mL	47.77	27.20-50.52
Perchlorate 2	Auto	4.178	2188	297198	0.0000	ng/mL	----	
Sodium Perchlorate-18O4_IS	M	4.188	297198	297198	1.0000	ng/mL	----	

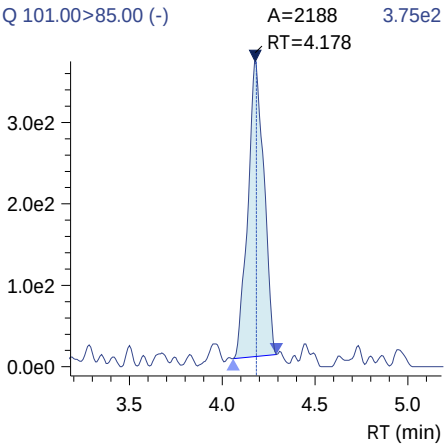
Perchlorate

Conc 0.1056



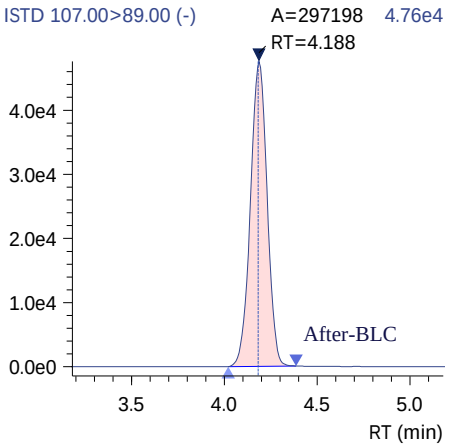
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 9/9/2022 2:54:49 PM

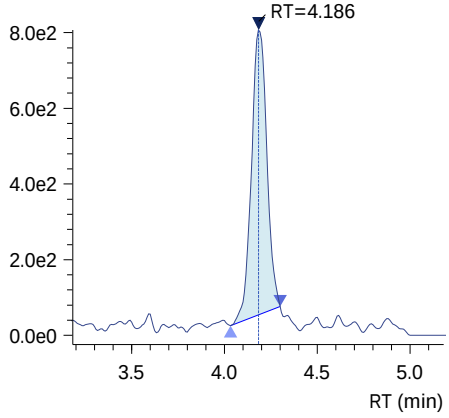
EQ2200360-03

Sample ID: EQ2200360-03
Date Acquired: 8/29/2022 1:11:23 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220829\20220829_012.lcd
Vial: 23 | Inj. Volume: 25.0000uL | Tray: 3

Perchlorate

Conc 0.1051

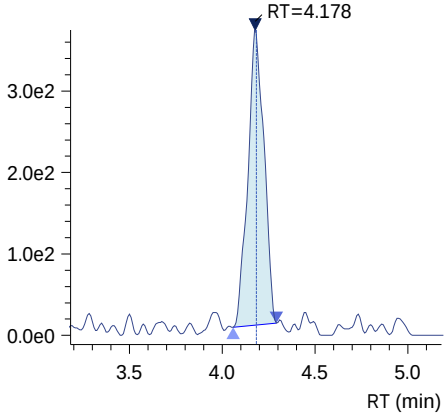
Q 99.00>83.00 (-) A=4349 8.07e2 RT=4.186



Perchlorate 2

Conc 0.0000

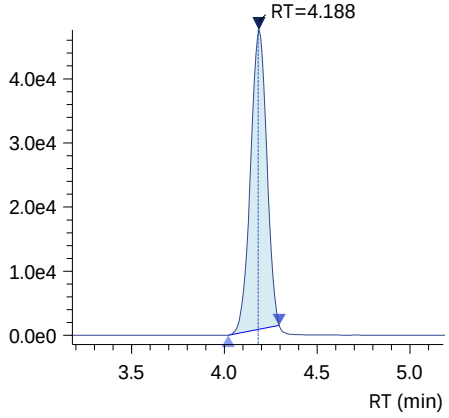
Q 101.00>85.00 (-) A=2188 3.75e2 RT=4.178



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=283510 4.76e4 RT=4.188



Insight Report

Printed at 9/9/2022 2:53:12 PM

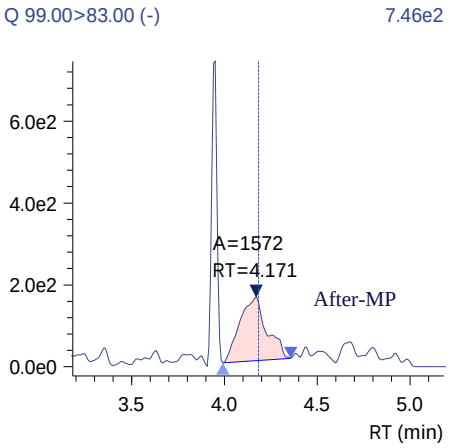
E2200812-005

Sample ID: E2200812-005
Date Acquired: 8/29/2022 1:20:01 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220829\20220829_013.lcd
Vial: 32 | Inj. Volume: 25.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	4.171	1572	207910	0.0518	ng/mL	30.53	27.20-50.52
Perchlorate 2	M	4.150	480	207910	0.0000	ng/mL	----	
Sodium Perchlorate-18O4_IS	Auto	4.120	207910	207910	1.0000	ng/mL	----	

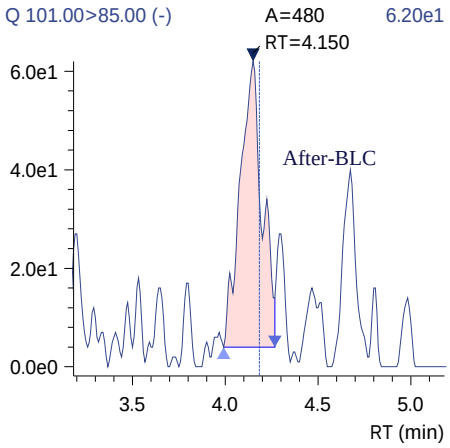
Perchlorate

Conc 0.0518



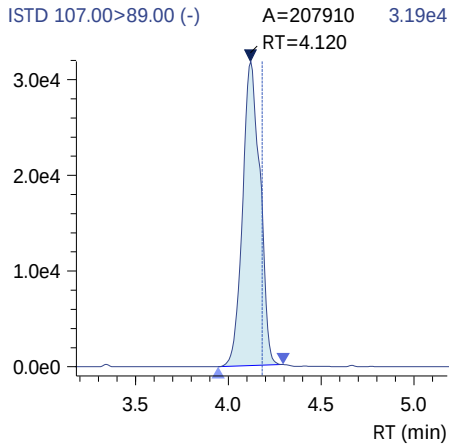
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

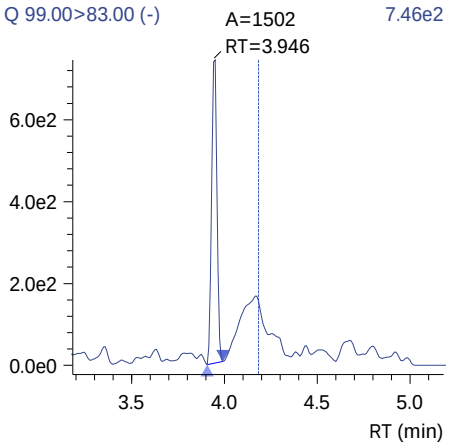
Printed at 9/9/2022 2:54:49 PM

E2200812-005

Sample ID: E2200812-005
Date Acquired: 8/29/2022 1:20:01 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220829\20220829_013.lcd
Vial: 32 | Inj. Volume: 25.0000uL | Tray: 3

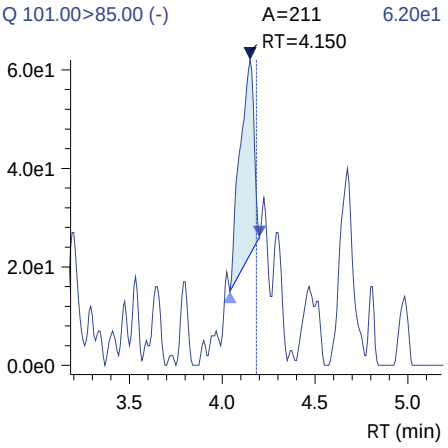
Perchlorate

Conc ----



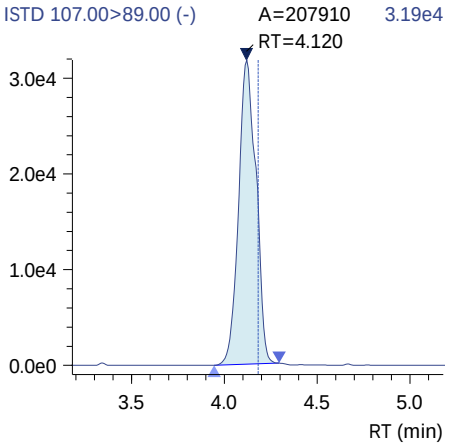
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 9/9/2022 2:53:12 PM

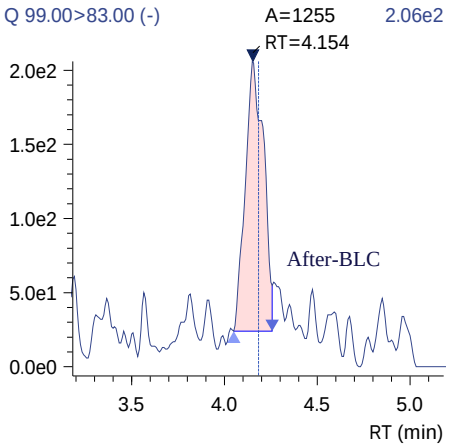
E2200812-006

Sample ID: E2200812-006
Date Acquired: 8/29/2022 1:28:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220829\20220829_014.lcd
Vial: 33 | Inj. Volume: 25.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	4.154	1255	280201	0.0307	ng/mL	44.14	27.20-50.52
Perchlorate 2	Auto	4.179	554	280201	0.0000	ng/mL	----	
Sodium Perchlorate-18O4_IS	Auto	4.161	280201	280201	1.0000	ng/mL	----	

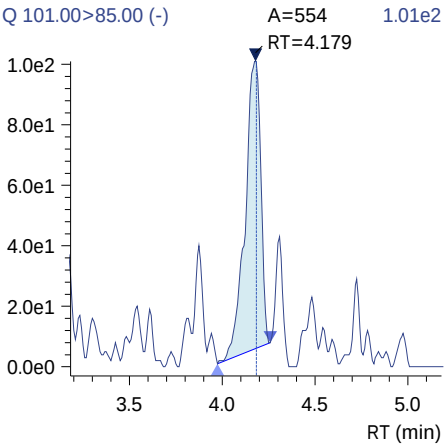
Perchlorate

Conc 0.0307



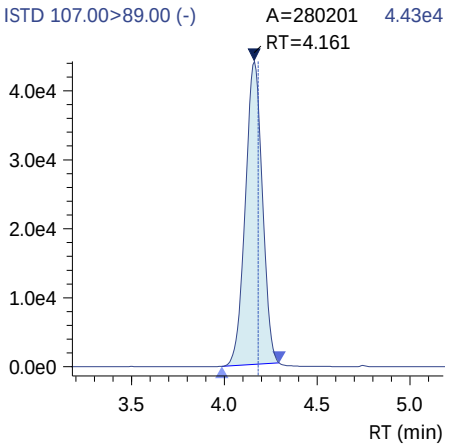
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

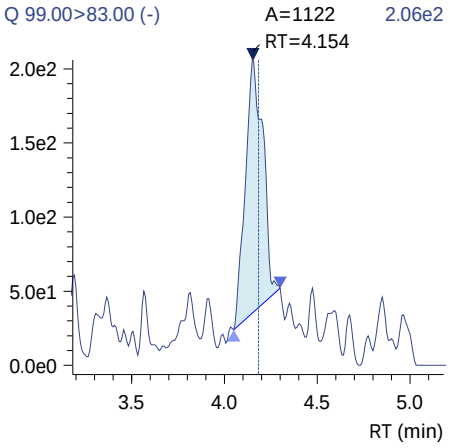
Printed at 9/9/2022 2:54:49 PM

E2200812-006

Sample ID: E2200812-006
Date Acquired: 8/29/2022 1:28:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220829\20220829_014.lcd
Vial: 33 | Inj. Volume: 25.0000uL | Tray: 3

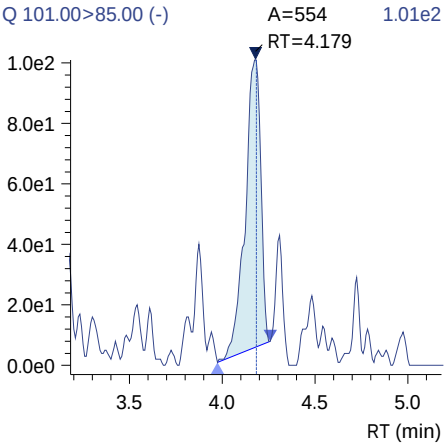
Perchlorate

Conc 0.0274



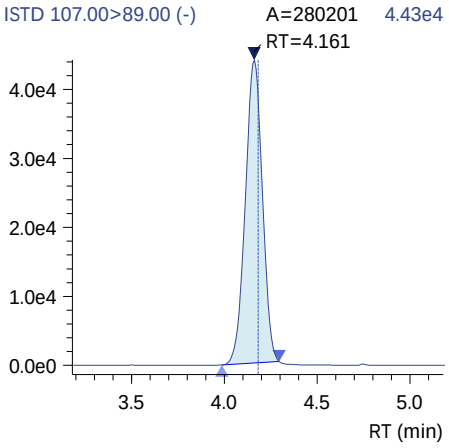
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 9/9/2022 2:53:12 PM

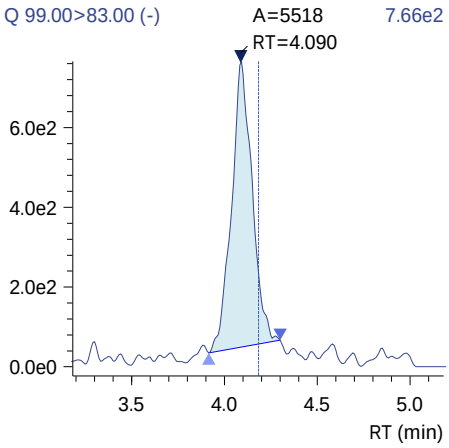
E2200812-007

Sample ID: E2200812-007
Date Acquired: 8/29/2022 1:37:15 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220829\20220829_015.lcd
Vial: 34 | Inj. Volume: 25.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	4.090	5518	279751	0.1351	ng/mL	40.07	27.20-50.52
Perchlorate 2	Auto	4.109	2211	279751	0.0000	ng/mL	----	
Sodium Perchlorate-18O4_IS	Auto	4.092	279751	279751	1.0000	ng/mL	----	

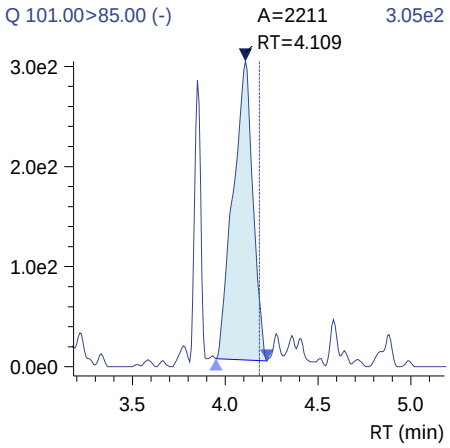
Perchlorate

Conc 0.1351



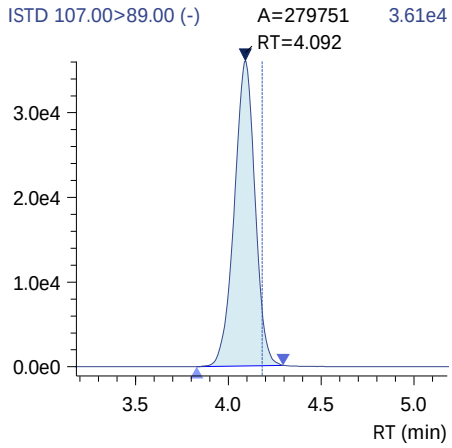
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

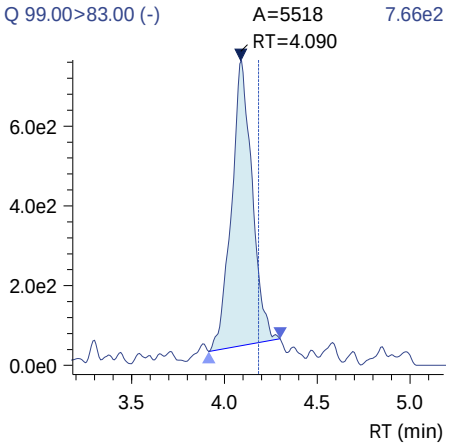
Printed at 9/9/2022 2:54:49 PM

E2200812-007

Sample ID: E2200812-007
Date Acquired: 8/29/2022 1:37:15 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220829\20220829_015.lcd
Vial: 34 | Inj. Volume: 25.0000uL | Tray: 3

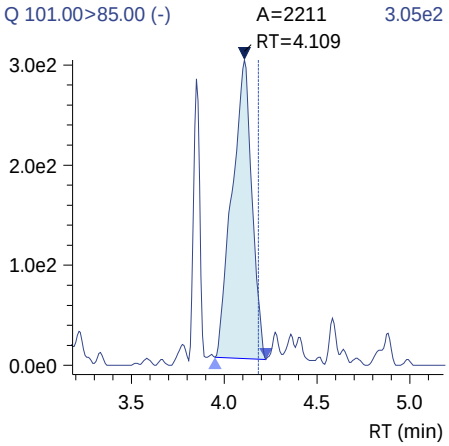
Perchlorate

Conc 0.1351



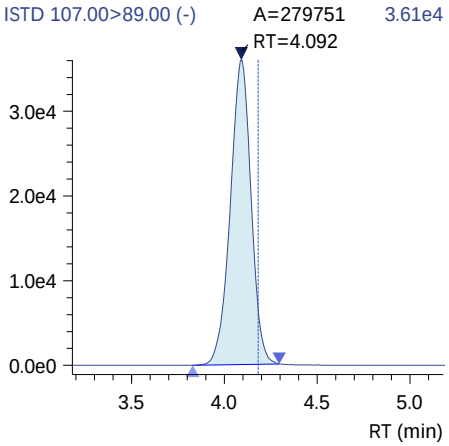
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 9/9/2022 2:53:12 PM

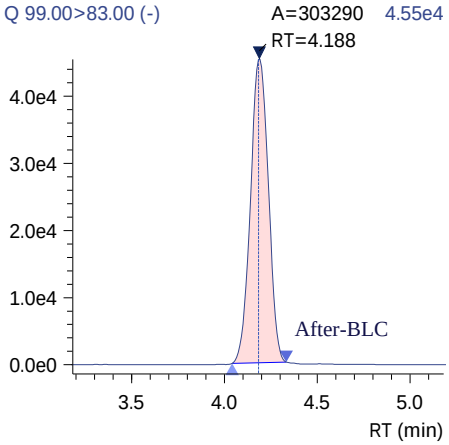
PERCHLORATE7

Sample ID: PERCHLORATE7
Date Acquired: 8/29/2022 2:52:18 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220829\20220829_021.lcd
Vial: 26 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	4.188	303290	224973	9.2369	ng/mL	39.33	27.20-50.52
Perchlorate 2	M	4.187	119297	224973	0.0000	ng/mL	----	
Sodium Perchlorate-18O4_IS	M	4.186	224973	224973	1.0000	ng/mL	----	

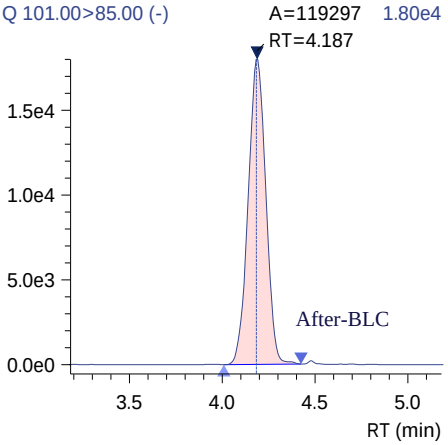
Perchlorate

Conc 9.2369



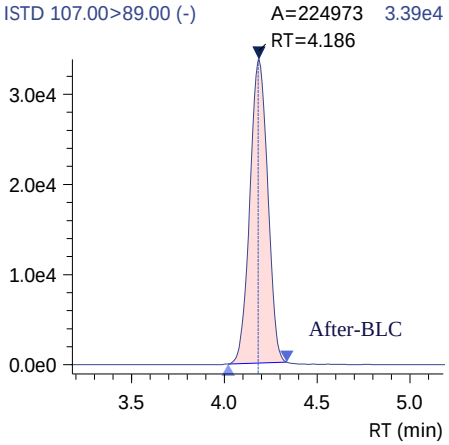
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 9/9/2022 2:54:49 PM

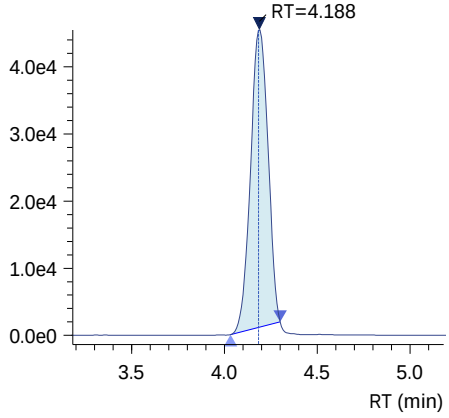
PERCHLORATE7

Sample ID: PERCHLORATE7
Date Acquired: 8/29/2022 2:52:18 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220829\20220829_021.lcd
Vial: 26 | Inj. Volume: 25.0000uL | Tray: 1

Perchlorate

Conc 9.3373

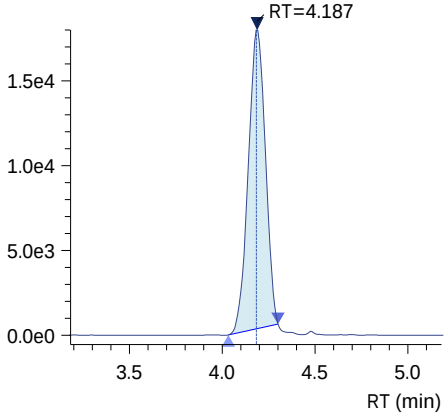
Q 99.00>83.00 (-) A=289672 4.55e4 RT=4.188



Perchlorate 2

Conc 0.0000

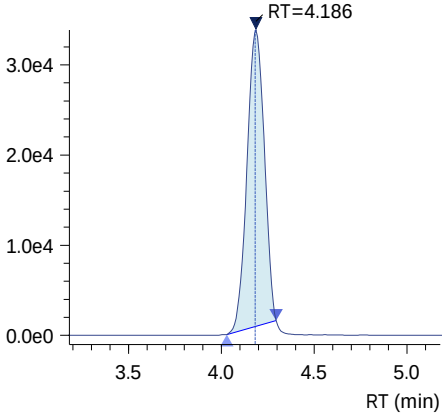
Q 101.00>85.00 (-) A=112730 1.80e4 RT=4.187



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=212561 3.39e4 RT=4.186



Insight Report

Printed at 9/9/2022 2:53:12 PM

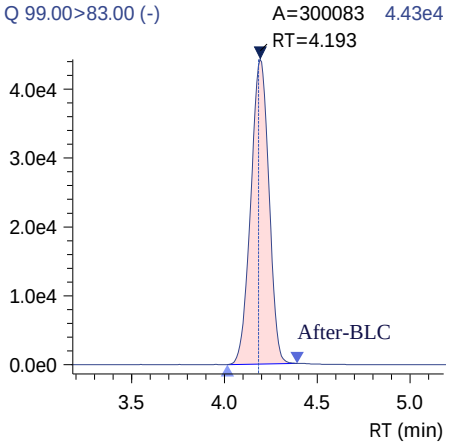
PERCHLORATE7

Sample ID: PERCHLORATE7
Date Acquired: 8/29/2022 3:32:00 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220829\20220829_025.lcd
Vial: 26 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	4.193	300083	223261	9.2093	ng/mL	39.42	27.20-50.52
Perchlorate 2	M	4.191	118281	223261	0.0000	ng/mL	----	
Sodium Perchlorate-18O4_IS	M	4.189	223261	223261	1.0000	ng/mL	----	

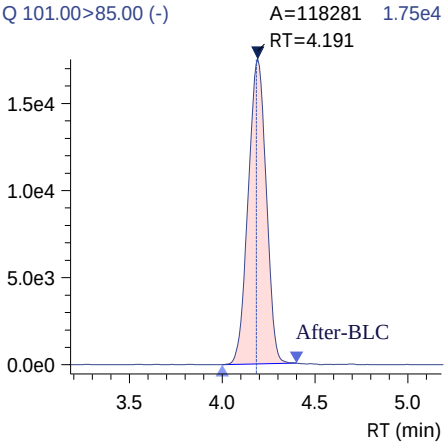
Perchlorate

Conc 9.2093



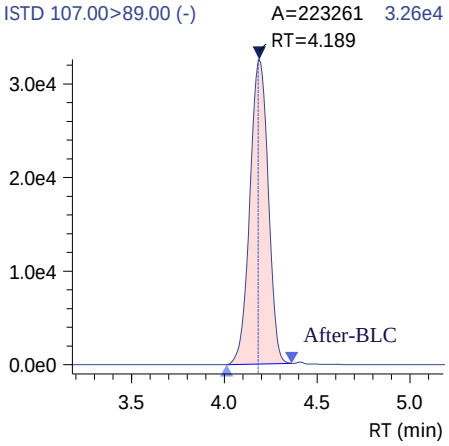
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

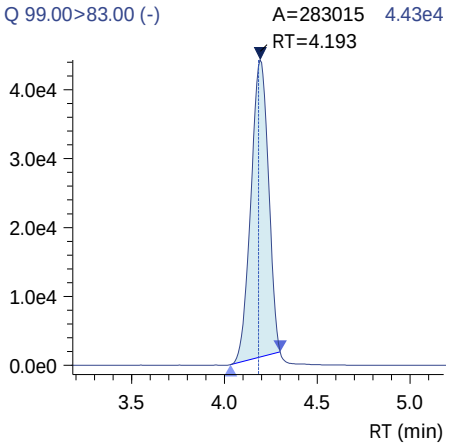
Printed at 9/9/2022 2:54:49 PM

PERCHLORATE7

Sample ID: PERCHLORATE7
Date Acquired: 8/29/2022 3:32:00 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220829\20220829_025.lcd
Vial: 26 | Inj. Volume: 25.0000uL | Tray: 1

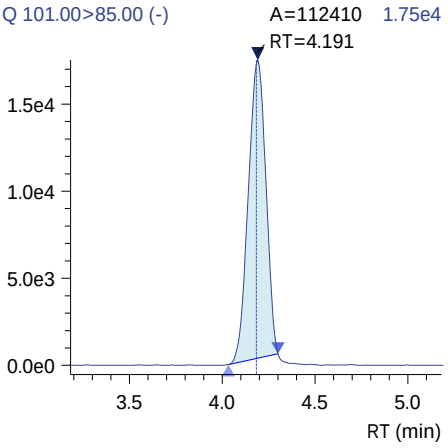
Perchlorate

Conc 9.2665



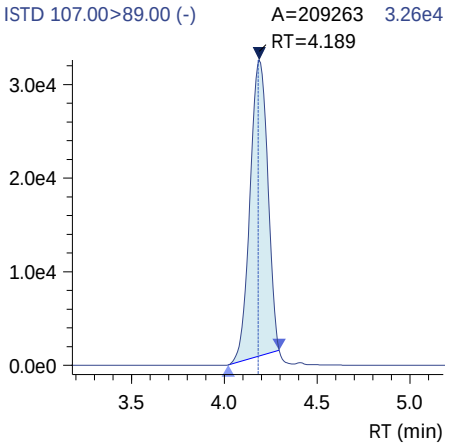
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 9/9/2022 2:53:12 PM

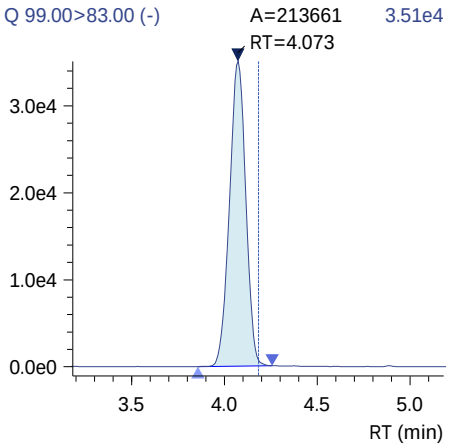
E2200812-009X10

Sample ID: E2200812-009X10
Date Acquired: 8/29/2022 3:40:37 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220829\20220829_026.lcd
Vial: 36 | Inj. Volume: 25.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	4.073	213661	209642	6.9830	ng/mL	39.81	27.20-50.52
Perchlorate 2	Auto	4.072	85058	209642	0.0000	ng/mL	----	
Sodium Perchlorate-18O4_IS	Auto	4.067	209642	209642	1.0000	ng/mL	----	

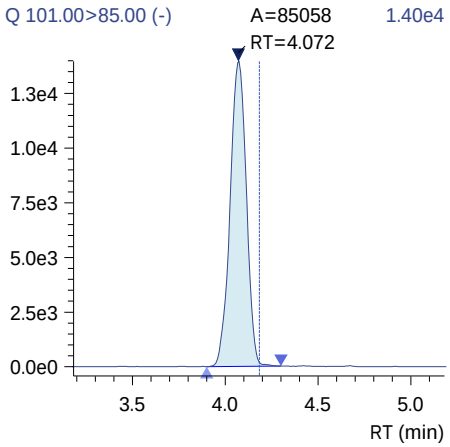
Perchlorate

Conc 6.9830



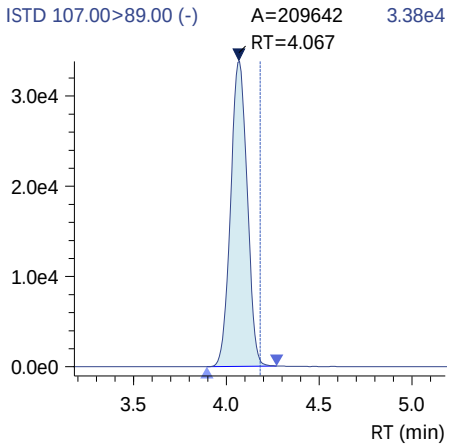
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

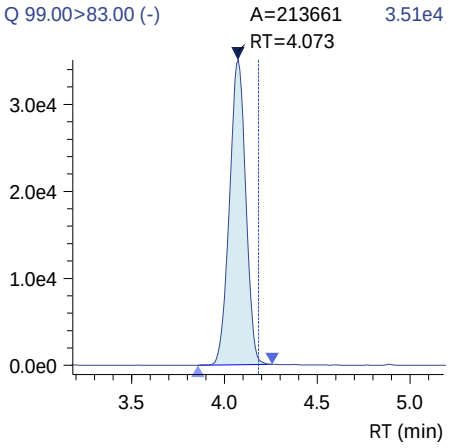
Printed at 9/9/2022 2:54:49 PM

E2200812-009X10

Sample ID: E2200812-009X10
Date Acquired: 8/29/2022 3:40:37 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220829\20220829_026.lcd
Vial: 36 | Inj. Volume: 25.0000uL | Tray: 3

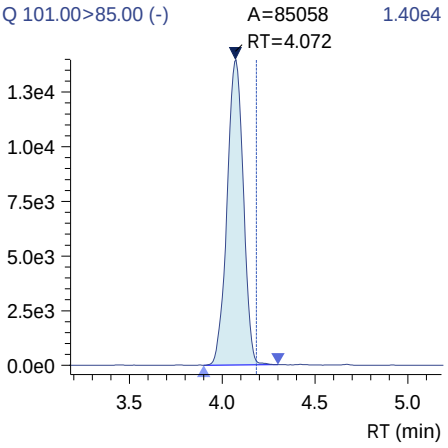
Perchlorate

Conc 6.9830



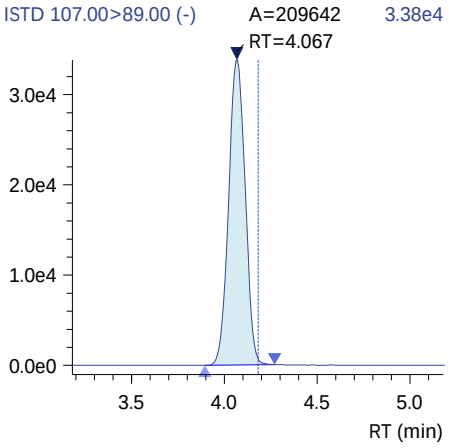
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 9/9/2022 2:53:12 PM

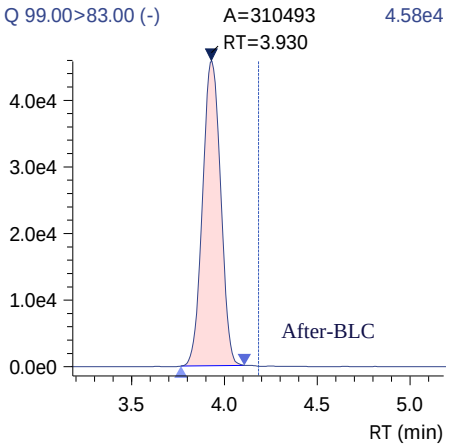
PERCHLORATE7

Sample ID: PERCHLORATE7
Date Acquired: 8/29/2022 4:24:27 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220829\20220829_031.lcd
Vial: 26 | Inj. Volume: 25.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.930	310493	224240	9.4871	ng/mL	38.28	27.20-50.52
Perchlorate 2	MI	3.929	118867	224240	0.0000	ng/mL	----	
Sodium Perchlorate-18O4_IS	M	3.927	224240	224240	1.0000	ng/mL	----	

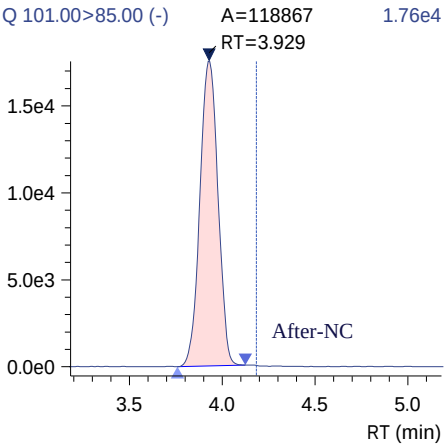
Perchlorate

Conc 9.4871



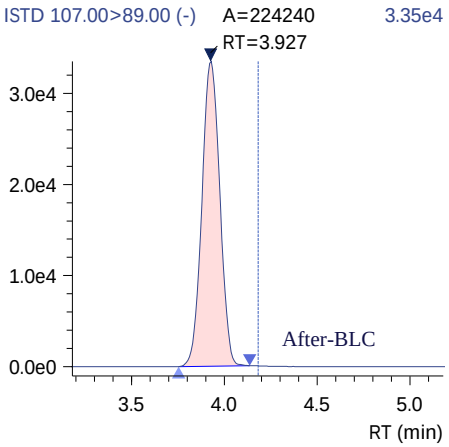
Perchlorate 2

Conc 0.0000



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

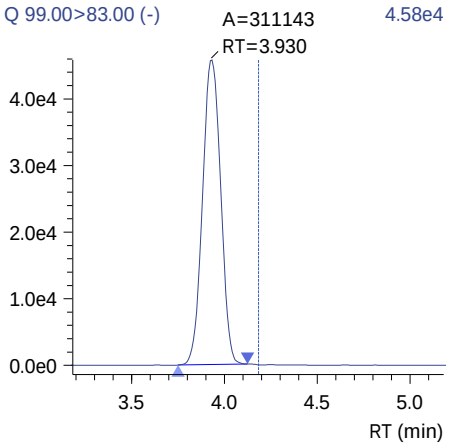
Printed at 9/9/2022 2:54:49 PM

PERCHLORATE7

Sample ID: PERCHLORATE7
Date Acquired: 8/29/2022 4:24:27 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20220829\20220829_031.lcd
Vial: 26 | Inj. Volume: 25.0000uL | Tray: 1

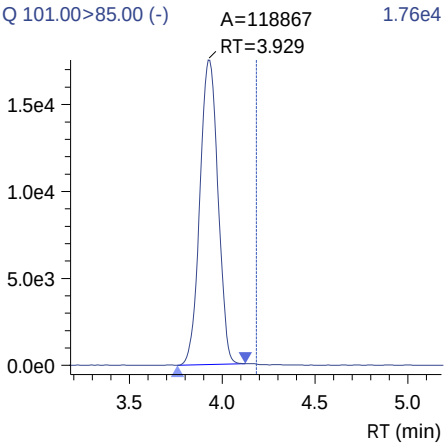
Perchlorate

Conc ----



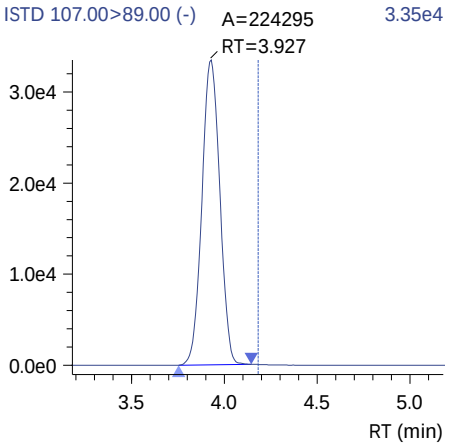
Perchlorate 2

Conc ----



Sodium Perchlorate-18O4_IS

Conc ----



HS22080933 LHAAP 18 24 Cover Page

ALS WO# HS22080933

ALS Environmental
ALS Group USA, Corp
10450 Stancliff Road, Suite 210
Houston, TX 77099
T : +1 281 530 5656
F : +1 281 530 5887
www.alsglobal.com

Table of Contents

HS22080933 LHAAP 18 24 Cover Page
- CoverPage
- HS22080933 LHAAP 18 24 Final
  - CoverLetter
  - Sample Summary
  - CaseNarrative
  - 18CPTMW03SW_081522
  - 1824DPTMW05_081522
  - 120_081522
  - MW14_081522
  - MW18_081522
  - 18WW25_081522
  - 18CPTMW15_081522
  - CO6_081522
  - Trip Blank
  - Weight/Volume Log Dates
  - Report
  - QC
  - Acronyms
  - Certifications
  - SampleReceiptCheckList
  - COC

Table of Contents (continued)

HS22080933-E2200811 Perch Level II

HS22080933 ALS Kelso Report K2210030_Summary

HS22080933-MSVOA-SW8260

Form 1 - Sample Results

Form 2 - Surrogates

Form 3A - MS/MSD

Form 3B - LCS/LCSD

Form 4 - MB Assoc

Form 5 - Tune

Form 6 - ICAL

Form 6I - ICV

Form 7 - CCV

Form 8 - ISTD

Run Log

Raw Data VOA6 413360

Raw Data VOA6 415491

HS22080933-MSSEMI-SW8270SIM

Form 1 - Sample Results

Form 2 - Surrogates

Form 3B - LCS/LCSD

Form 4 - MB Assoc

Form 5 - TUNE

Form 6 - ICAL

Form 6I - ICV

Form 7 - CCV

Form 8 - ISTD

Prep Log

Run Log

Raw Data SV-6 410398

Raw Data SV-6 416162

0829 - 19 - SAMP#03

0829 - 20 - SAMP#04

HS22080933 - ME - ICP_W_DOD

Form 13 - ICPMS07_416140 Run Log

Form 13 - ICPMS07_416222 Run Log

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

right solutions.
right partner.

WorkOrder: HS22080933

LHAAP 18 24

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

13-Sep-2022

HS22080933 LHAAP 18 24 Final

ALS WO# HS22080933

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

September 02, 2022

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

Work Order: **HS22080933**

Laboratory Results for: **LHAAP 18 24**

Dear Marcia Olive,

ALS Environmental received 9 sample(s) on Aug 17, 2022 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
Dane J. Wacasey

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Work Order: HS22080933

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS22080933-01	18CPTMW03SW_081522	Groundwater		15-Aug-2022 07:35	17-Aug-2022 09:25	☐
HS22080933-02	1824DPTMW05_081522	Groundwater		15-Aug-2022 08:20	17-Aug-2022 09:25	☐
HS22080933-03	120_081522	Groundwater		15-Aug-2022 09:05	17-Aug-2022 09:25	☐
HS22080933-04	MW14_081522	Groundwater		15-Aug-2022 09:50	17-Aug-2022 09:25	☐
HS22080933-05	MW18_081522	Groundwater		15-Aug-2022 10:40	17-Aug-2022 09:25	☐
HS22080933-06	18WW25_081522	Groundwater		15-Aug-2022 11:25	17-Aug-2022 09:25	☐
HS22080933-07	18CPTMW15_081522	Groundwater		15-Aug-2022 12:10	17-Aug-2022 09:25	☐
HS22080933-08	CO6_081522	Groundwater		15-Aug-2022 13:00	17-Aug-2022 09:25	☐
HS22080933-09	Trip Blank	Water		15-Aug-2022 00:00	17-Aug-2022 09:25	☐

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: LHAAP 18 24
Work Order: HS22080933

Work Order Comments

- The analysis for Mercury Method 7470 was subcontracted to ALS Environmental in Kelso WA. Final report attached

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

GCMS Semivolatiles by Method SW8270SIM

Batch ID: 182674

Sample ID: 120_081522 (HS22080933-03)

- The surrogate recoveries could not be determined due to dilution below the calibration range.

Sample ID: 1824DPTMW05_081522 (HS22080933-02)

- The surrogate recoveries could not be determined due to dilution below the calibration range.

Sample ID: MW14_081522 (HS22080933-04)

- The surrogate recoveries could not be determined due to dilution below the calibration range.

GCMS Volatiles by Method SW8260

Batch ID: R415491

Sample ID: 1824DPTMW05_081522 (HS22080933-02)

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

Sample ID: 18CPTMW03SW_081522 (HS22080933-01MSD)

- The RPD between the MS and MSD was outside of the control limit.

Metals by Method SW6020A

Batch ID: 182759

Sample ID: HS22080927-01MS

- MS and MSD are for an unrelated sample

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18CPTMW03SW_081522
Collection Date: 15-Aug-2022 07:35

ANALYTICAL REPORT
WorkOrder:HS22080933
Lab ID:HS22080933-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:05
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:05
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	19-Aug-2022 14:05
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:05
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:05
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:05
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:05
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 14:05
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	19-Aug-2022 14:05
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	19-Aug-2022 14:05
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:05
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	19-Aug-2022 14:05
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:05
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	19-Aug-2022 14:05
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:05
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	19-Aug-2022 14:05
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:05
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 14:05
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:05
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 14:05
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:05
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	19-Aug-2022 14:05
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:05
2-Hexanone	2.0	U	1.0	2.0	2.0	ug/L	1	19-Aug-2022 14:05
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 14:05
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:05
4-Methyl-2-pentanone	2.0	U	0.70	2.0	2.0	ug/L	1	19-Aug-2022 14:05
Acetone	2.0	U	0.40	2.0	2.0	ug/L	1	19-Aug-2022 14:05
Benzene	**1.3**		**0.20**	**0.50**	**1.0**	**ug/L**	1	19-Aug-2022 14:05
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 14:05
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:05
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:05
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 14:05
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 14:05
Carbon disulfide	2.0	U	0.60	2.0	2.0	ug/L	1	19-Aug-2022 14:05
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	19-Aug-2022 14:05
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:05
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:05
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:05

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

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18CPTMW03SW_081522
Collection Date: 15-Aug-2022 07:35

ANALYTICAL REPORT
WorkOrder:HS22080933
Lab ID:HS22080933-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:05
cis-1,2-Dichloroethene	**37**		**0.20**	**0.50**	**1.0**	**ug/L**	1	19-Aug-2022 14:05
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:05
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:05
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:05
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:05
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:05
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	19-Aug-2022 14:05
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:05
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	19-Aug-2022 14:05
Methylene chloride	2.0	U	0.40	2.0	2.0	ug/L	1	19-Aug-2022 14:05
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 14:05
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:05
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:05
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:05
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:05
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:05
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:05
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:05
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:05
trans-1,2-Dichloroethene	**1.0**		**0.20**	**0.50**	**1.0**	**ug/L**	1	19-Aug-2022 14:05
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:05
Trichloroethene	**3.4**		**0.20**	**0.50**	**1.0**	**ug/L**	1	19-Aug-2022 14:05
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:05
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:05
Surr: 1,2-Dichloroethane-d4	*95.9*			**0**	*81-118*	*%REC*	*1*	*19-Aug-2022 14:05*
Surr: 4-Bromofluorobenzene	*96.3*			**0**	*85-114*	*%REC*	*1*	*19-Aug-2022 14:05*
Surr: Dibromofluoromethane	*96.4*			**0**	*80-119*	*%REC*	*1*	*19-Aug-2022 14:05*
Surr: Toluene-d8	*108*			**0**	*89-112*	*%REC*	*1*	*19-Aug-2022 14:05*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 19-Aug-2022		Analyst: MBG
1,4-Dioxane	**0.37**		**0.010**	**0.010**	**0.010**	**ug/L**	1	27-Aug-2022 14:05
Surr: 2-Fluorobiphenyl	*67.2*			**0**	*40-140*	*%REC*	*1*	*27-Aug-2022 14:05*
Surr: 4-Terphenyl-d14	*67.4*			**0**	*40-140*	*%REC*	*1*	*27-Aug-2022 14:05*
Surr: Nitrobenzene-d5	*80.9*			**0**	*40-140*	*%REC*	*1*	*27-Aug-2022 14:05*

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

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18CPTMW03SW_081522
Collection Date: 15-Aug-2022 07:35

ANALYTICAL REPORT
WorkOrder:HS22080933
Lab ID:HS22080933-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 23-Aug-2022		Analyst: YP
Aluminum	**0.0458**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	30-Aug-2022 21:35
Antimony	**0.000413**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	30-Aug-2022 21:35
Arsenic	**0.00284**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	30-Aug-2022 21:35
Barium	**0.594**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	30-Aug-2022 21:35
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	30-Aug-2022 21:35
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	30-Aug-2022 21:35
Calcium	**122**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	30-Aug-2022 21:35
Chromium	**0.0121**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	30-Aug-2022 21:35
Cobalt	**0.00309**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	30-Aug-2022 21:35
Copper	0.00250	U	0.00100	0.00250	0.00500	mg/L	1	30-Aug-2022 21:35
Iron	**7.90**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	30-Aug-2022 21:35
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	30-Aug-2022 21:35
Magnesium	**18.3**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	30-Aug-2022 21:35
Manganese	**0.729**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	30-Aug-2022 21:35
Nickel	**0.00709**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	30-Aug-2022 21:35
Potassium	**96.3**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	30-Aug-2022 21:35
Selenium	0.00250	U	0.00110	0.00250	0.00500	mg/L	1	30-Aug-2022 21:35
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	30-Aug-2022 21:35
Sodium	**211**		**0.280**	**1.00**	**4.00**	**mg/L**	20	31-Aug-2022 12:08
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	30-Aug-2022 21:35
Vanadium	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	30-Aug-2022 21:35
Zinc	**0.00949**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	30-Aug-2022 21:35
SUBCONTRACT ANALYSIS - MERCURY LOW		**Method:NA**						Analyst: SUBK
Subcontract Analysis	See Attached		0	0		NA	1	02-Sep-2022 13:50
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	29-Aug-2022 16:15

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

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 1824DPTMW05_081522
Collection Date: 15-Aug-2022 08:20

ANALYTICAL REPORT
WorkOrder:HS22080933
Lab ID:HS22080933-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:08
1,1,1-Trichloroethane	12	U	5.0	12	25	ug/L	25	19-Aug-2022 15:08
1,1,2,2-Tetrachloroethane	25	U	12	25	25	ug/L	25	19-Aug-2022 15:08
1,1,2-Trichloroethane	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:08
1,1-Dichloroethane	12	U	5.0	12	25	ug/L	25	19-Aug-2022 15:08
1,1-Dichloroethene	12	U	5.0	12	25	ug/L	25	19-Aug-2022 15:08
1,1-Dichloropropene	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:08
1,2,3-Trichlorobenzene	25	U	10	25	25	ug/L	25	19-Aug-2022 15:08
1,2,3-Trichloropropane	25	U	12	25	25	ug/L	25	19-Aug-2022 15:08
1,2,4-Trichlorobenzene	25	U	12	25	25	ug/L	25	19-Aug-2022 15:08
1,2,4-Trimethylbenzene	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:08
1,2-Dibromo-3-chloropropane	25	U	5.0	25	25	ug/L	25	19-Aug-2022 15:08
1,2-Dibromoethane	12	U	5.0	12	25	ug/L	25	19-Aug-2022 15:08
1,2-Dichlorobenzene	25	U	12	25	25	ug/L	25	19-Aug-2022 15:08
1,2-Dichloroethane	**79**		**5.0**	**12**	**25**	**ug/L**	25	19-Aug-2022 15:08
1,2-Dichloropropane	25	U	12	25	25	ug/L	25	19-Aug-2022 15:08
1,3,5-Trimethylbenzene	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:08
1,3-Dichlorobenzene	25	U	10	25	25	ug/L	25	19-Aug-2022 15:08
1,3-Dichloropropane	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:08
1,4-Dichlorobenzene	25	U	10	25	25	ug/L	25	19-Aug-2022 15:08
2,2-Dichloropropane	12	U	5.0	12	25	ug/L	25	19-Aug-2022 15:08
2-Butanone	25	U	12	25	50	ug/L	25	19-Aug-2022 15:08
2-Chlorotoluene	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:08
2-Hexanone	50	U	25	50	50	ug/L	25	19-Aug-2022 15:08
4-Chlorotoluene	25	U	10	25	25	ug/L	25	19-Aug-2022 15:08
4-Isopropyltoluene	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:08
4-Methyl-2-pentanone	50	U	18	50	50	ug/L	25	19-Aug-2022 15:08
Acetone	50	U	10	50	50	ug/L	25	19-Aug-2022 15:08
Benzene	12	U	5.0	12	25	ug/L	25	19-Aug-2022 15:08
Bromobenzene	25	U	10	25	25	ug/L	25	19-Aug-2022 15:08
Bromochloromethane	12	U	5.0	12	25	ug/L	25	19-Aug-2022 15:08
Bromodichloromethane	12	U	5.0	12	25	ug/L	25	19-Aug-2022 15:08
Bromoform	25	U	10	25	25	ug/L	25	19-Aug-2022 15:08
Bromomethane	25	U	10	25	25	ug/L	25	19-Aug-2022 15:08
Carbon disulfide	50	U	15	50	50	ug/L	25	19-Aug-2022 15:08
Carbon tetrachloride	25	U	12	25	25	ug/L	25	19-Aug-2022 15:08
Chlorobenzene	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:08
Chloroethane	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:08
Chloroform	**35**		**5.0**	**12**	**25**	**ug/L**	25	19-Aug-2022 15:08

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

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 1824DPTMW05_081522
Collection Date: 15-Aug-2022 08:20

ANALYTICAL REPORT
WorkOrder:HS22080933
Lab ID:HS22080933-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
Chloromethane	12	U	5.0	12	25	ug/L	25	19-Aug-2022 15:08
cis-1,2-Dichloroethene	**73**		**5.0**	**12**	**25**	**ug/L**	25	19-Aug-2022 15:08
cis-1,3-Dichloropropene	12	U	5.0	12	25	ug/L	25	19-Aug-2022 15:08
Dibromochloromethane	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:08
Dibromomethane	12	U	5.0	12	25	ug/L	25	19-Aug-2022 15:08
Dichlorodifluoromethane	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:08
Ethylbenzene	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:08
Hexachlorobutadiene	25	U	25	25	25	ug/L	25	19-Aug-2022 15:08
Isopropylbenzene	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:08
m,p-Xylene	25	U	12	25	50	ug/L	25	19-Aug-2022 15:08
Methylene chloride	50	U	10	50	50	ug/L	25	19-Aug-2022 15:08
n-Butylbenzene	25	U	10	25	25	ug/L	25	19-Aug-2022 15:08
n-Propylbenzene	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:08
Naphthalene	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:08
o-Xylene	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:08
sec-Butylbenzene	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:08
Styrene	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:08
tert-Butylbenzene	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:08
Tetrachloroethene	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:08
Toluene	12	U	5.0	12	25	ug/L	25	19-Aug-2022 15:08
trans-1,2-Dichloroethene	12	U	5.0	12	25	ug/L	25	19-Aug-2022 15:08
trans-1,3-Dichloropropene	12	U	5.0	12	25	ug/L	25	19-Aug-2022 15:08
Trichloroethene	**4,700**		**5.0**	**12**	**25**	**ug/L**	25	19-Aug-2022 15:08
Trichlorofluoromethane	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:08
Vinyl chloride	12	U	5.0	12	25	ug/L	25	19-Aug-2022 15:08
Surr: 1,2-Dichloroethane-d4	*95.9*			**0**	*81-118*	*%REC*	*25*	*19-Aug-2022 15:08*
Surr: 4-Bromofluorobenzene	*95.0*			**0**	*85-114*	*%REC*	*25*	*19-Aug-2022 15:08*
Surr: Dibromofluoromethane	*95.0*			**0**	*80-119*	*%REC*	*25*	*19-Aug-2022 15:08*
Surr: Toluene-d8	*107*			**0**	*89-112*	*%REC*	*25*	*19-Aug-2022 15:08*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 19-Aug-2022		Analyst: MBG
1,4-Dioxane	**43**		**1.0**	**1.0**	**1.0**	**ug/L**	100	29-Aug-2022 15:33
Surr: 2-Fluorobiphenyl	*0*	*S*		0	*40-140*	*%REC*	*100*	*29-Aug-2022 15:33*
Surr: 4-Terphenyl-d14	*0*	*S*		0	*40-140*	*%REC*	*100*	*29-Aug-2022 15:33*
Surr: Nitrobenzene-d5	*0*	*S*		0	*40-140*	*%REC*	*100*	*29-Aug-2022 15:33*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	29-Aug-2022 16:15

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

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 120_081522
Collection Date: 15-Aug-2022 09:05

ANALYTICAL REPORT
WorkOrder:HS22080933
Lab ID:HS22080933-03
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	10	U	3.0	10	10	ug/L	10	19-Aug-2022 20:45
1,1,1-Trichloroethane	5.0	U	2.0	5.0	10	ug/L	10	19-Aug-2022 20:45
1,1,2,2-Tetrachloroethane	10	U	5.0	10	10	ug/L	10	19-Aug-2022 20:45
1,1,2-Trichloroethane	10	U	3.0	10	10	ug/L	10	19-Aug-2022 20:45
1,1-Dichloroethane	**12**		**2.0**	**5.0**	**10**	**ug/L**	10	19-Aug-2022 20:45
1,1-Dichloroethene	**78**		**2.0**	**5.0**	**10**	**ug/L**	10	19-Aug-2022 20:45
1,1-Dichloropropene	10	U	3.0	10	10	ug/L	10	19-Aug-2022 20:45
1,2,3-Trichlorobenzene	10	U	4.0	10	10	ug/L	10	19-Aug-2022 20:45
1,2,3-Trichloropropane	10	U	5.0	10	10	ug/L	10	19-Aug-2022 20:45
1,2,4-Trichlorobenzene	10	U	5.0	10	10	ug/L	10	19-Aug-2022 20:45
1,2,4-Trimethylbenzene	10	U	3.0	10	10	ug/L	10	19-Aug-2022 20:45
1,2-Dibromo-3-chloropropane	10	U	2.0	10	10	ug/L	10	19-Aug-2022 20:45
1,2-Dibromoethane	5.0	U	2.0	5.0	10	ug/L	10	19-Aug-2022 20:45
1,2-Dichlorobenzene	10	U	5.0	10	10	ug/L	10	19-Aug-2022 20:45
1,2-Dichloroethane	**15**		**2.0**	**5.0**	**10**	**ug/L**	10	19-Aug-2022 20:45
1,2-Dichloropropane	10	U	5.0	10	10	ug/L	10	19-Aug-2022 20:45
1,3,5-Trimethylbenzene	10	U	3.0	10	10	ug/L	10	19-Aug-2022 20:45
1,3-Dichlorobenzene	10	U	4.0	10	10	ug/L	10	19-Aug-2022 20:45
1,3-Dichloropropane	10	U	3.0	10	10	ug/L	10	19-Aug-2022 20:45
1,4-Dichlorobenzene	10	U	4.0	10	10	ug/L	10	19-Aug-2022 20:45
2,2-Dichloropropane	5.0	U	2.0	5.0	10	ug/L	10	19-Aug-2022 20:45
2-Butanone	10	U	5.0	10	20	ug/L	10	19-Aug-2022 20:45
2-Chlorotoluene	10	U	3.0	10	10	ug/L	10	19-Aug-2022 20:45
2-Hexanone	20	U	10	20	20	ug/L	10	19-Aug-2022 20:45
4-Chlorotoluene	10	U	4.0	10	10	ug/L	10	19-Aug-2022 20:45
4-Isopropyltoluene	10	U	3.0	10	10	ug/L	10	19-Aug-2022 20:45
4-Methyl-2-pentanone	20	U	7.0	20	20	ug/L	10	19-Aug-2022 20:45
Acetone	20	U	4.0	20	20	ug/L	10	19-Aug-2022 20:45
Benzene	5.0	U	2.0	5.0	10	ug/L	10	19-Aug-2022 20:45
Bromobenzene	10	U	4.0	10	10	ug/L	10	19-Aug-2022 20:45
Bromochloromethane	5.0	U	2.0	5.0	10	ug/L	10	19-Aug-2022 20:45
Bromodichloromethane	5.0	U	2.0	5.0	10	ug/L	10	19-Aug-2022 20:45
Bromoform	10	U	4.0	10	10	ug/L	10	19-Aug-2022 20:45
Bromomethane	10	U	4.0	10	10	ug/L	10	19-Aug-2022 20:45
Carbon disulfide	20	U	6.0	20	20	ug/L	10	19-Aug-2022 20:45
Carbon tetrachloride	10	U	5.0	10	10	ug/L	10	19-Aug-2022 20:45
Chlorobenzene	10	U	3.0	10	10	ug/L	10	19-Aug-2022 20:45
Chloroethane	10	U	3.0	10	10	ug/L	10	19-Aug-2022 20:45
Chloroform	**13**		**2.0**	**5.0**	**10**	**ug/L**	10	19-Aug-2022 20:45

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

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 120_081522
Collection Date: 15-Aug-2022 09:05

ANALYTICAL REPORT
WorkOrder:HS22080933
Lab ID:HS22080933-03
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
Chloromethane	5.0	U	2.0	5.0	10	ug/L	10	19-Aug-2022 20:45
cis-1,2-Dichloroethene	**820**		**2.0**	**5.0**	**10**	**ug/L**	10	19-Aug-2022 20:45
cis-1,3-Dichloropropene	5.0	U	2.0	5.0	10	ug/L	10	19-Aug-2022 20:45
Dibromochloromethane	10	U	3.0	10	10	ug/L	10	19-Aug-2022 20:45
Dibromomethane	5.0	U	2.0	5.0	10	ug/L	10	19-Aug-2022 20:45
Dichlorodifluoromethane	10	U	3.0	10	10	ug/L	10	19-Aug-2022 20:45
Ethylbenzene	10	U	3.0	10	10	ug/L	10	19-Aug-2022 20:45
Hexachlorobutadiene	10	U	10	10	10	ug/L	10	19-Aug-2022 20:45
Isopropylbenzene	10	U	3.0	10	10	ug/L	10	19-Aug-2022 20:45
m,p-Xylene	10	U	5.0	10	20	ug/L	10	19-Aug-2022 20:45
Methylene chloride	20	U	4.0	20	20	ug/L	10	19-Aug-2022 20:45
n-Butylbenzene	10	U	4.0	10	10	ug/L	10	19-Aug-2022 20:45
n-Propylbenzene	10	U	3.0	10	10	ug/L	10	19-Aug-2022 20:45
Naphthalene	10	U	3.0	10	10	ug/L	10	19-Aug-2022 20:45
o-Xylene	10	U	3.0	10	10	ug/L	10	19-Aug-2022 20:45
sec-Butylbenzene	10	U	3.0	10	10	ug/L	10	19-Aug-2022 20:45
Styrene	10	U	3.0	10	10	ug/L	10	19-Aug-2022 20:45
tert-Butylbenzene	10	U	3.0	10	10	ug/L	10	19-Aug-2022 20:45
Tetrachloroethene	10	U	3.0	10	10	ug/L	10	19-Aug-2022 20:45
Toluene	5.0	U	2.0	5.0	10	ug/L	10	19-Aug-2022 20:45
trans-1,2-Dichloroethene	**7.1**	J	**2.0**	**5.0**	**10**	**ug/L**	10	19-Aug-2022 20:45
trans-1,3-Dichloropropene	5.0	U	2.0	5.0	10	ug/L	10	19-Aug-2022 20:45
Trichloroethene	**6,300**		**10**	**25**	**50**	**ug/L**	50	19-Aug-2022 15:51
Trichlorofluoromethane	10	U	3.0	10	10	ug/L	10	19-Aug-2022 20:45
Vinyl chloride	**7.4**	J	**2.0**	**5.0**	**10**	**ug/L**	10	19-Aug-2022 20:45
Surr: 1,2-Dichloroethane-d4	*95.7*			**0**	*81-118*	*%REC*	*50*	*19-Aug-2022 15:51*
Surr: 1,2-Dichloroethane-d4	*95.9*			**0**	*81-118*	*%REC*	*10*	*19-Aug-2022 20:45*
Surr: 4-Bromofluorobenzene	*96.9*			**0**	*85-114*	*%REC*	*50*	*19-Aug-2022 15:51*
Surr: 4-Bromofluorobenzene	*94.2*			**0**	*85-114*	*%REC*	*10*	*19-Aug-2022 20:45*
Surr: Dibromofluoromethane	*94.3*			**0**	*80-119*	*%REC*	*50*	*19-Aug-2022 15:51*
Surr: Dibromofluoromethane	*95.2*			**0**	*80-119*	*%REC*	*10*	*19-Aug-2022 20:45*
Surr: Toluene-d8	*106*			**0**	*89-112*	*%REC*	*50*	*19-Aug-2022 15:51*
Surr: Toluene-d8	*108*			**0**	*89-112*	*%REC*	*10*	*19-Aug-2022 20:45*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 19-Aug-2022		Analyst: MBG
1,4-Dioxane	**44**		**1.0**	**1.0**	**1.0**	**ug/L**	100	29-Aug-2022 15:51
Surr: 2-Fluorobiphenyl	*0*	*S*		0	*40-140*	*%REC*	*100*	*29-Aug-2022 15:51*
Surr: 4-Terphenyl-d14	*0*	*S*		0	*40-140*	*%REC*	*100*	*29-Aug-2022 15:51*
Surr: Nitrobenzene-d5	*0*	*S*		0	*40-140*	*%REC*	*100*	*29-Aug-2022 15:51*

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

ALS Houston, US

Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.

ANALYTICAL REPORT

Project: LHAAP 18 24

WorkOrder:HS22080933

Sample ID: 120_081522

Lab ID:HS22080933-03

Collection Date: 15-Aug-2022 09:05

Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	29-Aug-2022 16:15

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

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: MW14_081522
Collection Date: 15-Aug-2022 09:50

ANALYTICAL REPORT
WorkOrder:HS22080933
Lab ID:HS22080933-04
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:30
1,1,1-Trichloroethane	12	U	5.0	12	25	ug/L	25	19-Aug-2022 15:30
1,1,2,2-Tetrachloroethane	25	U	12	25	25	ug/L	25	19-Aug-2022 15:30
1,1,2-Trichloroethane	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:30
1,1-Dichloroethane	**24**	J	**5.0**	**12**	**25**	**ug/L**	25	19-Aug-2022 15:30
1,1-Dichloroethene	**93**		**5.0**	**12**	**25**	**ug/L**	25	19-Aug-2022 15:30
1,1-Dichloropropene	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:30
1,2,3-Trichlorobenzene	25	U	10	25	25	ug/L	25	19-Aug-2022 15:30
1,2,3-Trichloropropane	25	U	12	25	25	ug/L	25	19-Aug-2022 15:30
1,2,4-Trichlorobenzene	25	U	12	25	25	ug/L	25	19-Aug-2022 15:30
1,2,4-Trimethylbenzene	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:30
1,2-Dibromo-3-chloropropane	25	U	5.0	25	25	ug/L	25	19-Aug-2022 15:30
1,2-Dibromoethane	12	U	5.0	12	25	ug/L	25	19-Aug-2022 15:30
1,2-Dichlorobenzene	25	U	12	25	25	ug/L	25	19-Aug-2022 15:30
1,2-Dichloroethane	**81**		**5.0**	**12**	**25**	**ug/L**	25	19-Aug-2022 15:30
1,2-Dichloropropane	25	U	12	25	25	ug/L	25	19-Aug-2022 15:30
1,3,5-Trimethylbenzene	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:30
1,3-Dichlorobenzene	25	U	10	25	25	ug/L	25	19-Aug-2022 15:30
1,3-Dichloropropane	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:30
1,4-Dichlorobenzene	25	U	10	25	25	ug/L	25	19-Aug-2022 15:30
2,2-Dichloropropane	12	U	5.0	12	25	ug/L	25	19-Aug-2022 15:30
2-Butanone	25	U	12	25	50	ug/L	25	19-Aug-2022 15:30
2-Chlorotoluene	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:30
2-Hexanone	50	U	25	50	50	ug/L	25	19-Aug-2022 15:30
4-Chlorotoluene	25	U	10	25	25	ug/L	25	19-Aug-2022 15:30
4-Isopropyltoluene	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:30
4-Methyl-2-pentanone	50	U	18	50	50	ug/L	25	19-Aug-2022 15:30
Acetone	50	U	10	50	50	ug/L	25	19-Aug-2022 15:30
Benzene	12	U	5.0	12	25	ug/L	25	19-Aug-2022 15:30
Bromobenzene	25	U	10	25	25	ug/L	25	19-Aug-2022 15:30
Bromochloromethane	12	U	5.0	12	25	ug/L	25	19-Aug-2022 15:30
Bromodichloromethane	12	U	5.0	12	25	ug/L	25	19-Aug-2022 15:30
Bromoform	25	U	10	25	25	ug/L	25	19-Aug-2022 15:30
Bromomethane	25	U	10	25	25	ug/L	25	19-Aug-2022 15:30
Carbon disulfide	50	U	15	50	50	ug/L	25	19-Aug-2022 15:30
Carbon tetrachloride	25	U	12	25	25	ug/L	25	19-Aug-2022 15:30
Chlorobenzene	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:30
Chloroethane	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:30
Chloroform	12	U	5.0	12	25	ug/L	25	19-Aug-2022 15:30

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

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: MW14_081522
Collection Date: 15-Aug-2022 09:50

ANALYTICAL REPORT
WorkOrder:HS22080933
Lab ID:HS22080933-04
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
Chloromethane	12	U	5.0	12	25	ug/L	25	19-Aug-2022 15:30
cis-1,2-Dichloroethene	**1,900**		**5.0**	**12**	**25**	**ug/L**	25	19-Aug-2022 15:30
cis-1,3-Dichloropropene	12	U	5.0	12	25	ug/L	25	19-Aug-2022 15:30
Dibromochloromethane	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:30
Dibromomethane	12	U	5.0	12	25	ug/L	25	19-Aug-2022 15:30
Dichlorodifluoromethane	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:30
Ethylbenzene	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:30
Hexachlorobutadiene	25	U	25	25	25	ug/L	25	19-Aug-2022 15:30
Isopropylbenzene	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:30
m,p-Xylene	25	U	12	25	50	ug/L	25	19-Aug-2022 15:30
Methylene chloride	50	U	10	50	50	ug/L	25	19-Aug-2022 15:30
n-Butylbenzene	25	U	10	25	25	ug/L	25	19-Aug-2022 15:30
n-Propylbenzene	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:30
Naphthalene	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:30
o-Xylene	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:30
sec-Butylbenzene	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:30
Styrene	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:30
tert-Butylbenzene	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:30
Tetrachloroethene	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:30
Toluene	12	U	5.0	12	25	ug/L	25	19-Aug-2022 15:30
trans-1,2-Dichloroethene	**19**	J	**5.0**	**12**	**25**	**ug/L**	25	19-Aug-2022 15:30
trans-1,3-Dichloropropene	12	U	5.0	12	25	ug/L	25	19-Aug-2022 15:30
Trichloroethene	**8,100**		**50**	**120**	**250**	**ug/L**	250	19-Aug-2022 16:54
Trichlorofluoromethane	25	U	7.5	25	25	ug/L	25	19-Aug-2022 15:30
Vinyl chloride	12	U	5.0	12	25	ug/L	25	19-Aug-2022 15:30
Surr: 1,2-Dichloroethane-d4	*95.5*			**0**	*81-118*	*%REC*	*25*	*19-Aug-2022 15:30*
Surr: 1,2-Dichloroethane-d4	*96.6*			**0**	*81-118*	*%REC*	*250*	*19-Aug-2022 16:54*
Surr: 4-Bromofluorobenzene	*96.3*			**0**	*85-114*	*%REC*	*25*	*19-Aug-2022 15:30*
Surr: 4-Bromofluorobenzene	*95.3*			**0**	*85-114*	*%REC*	*250*	*19-Aug-2022 16:54*
Surr: Dibromofluoromethane	*94.7*			**0**	*80-119*	*%REC*	*25*	*19-Aug-2022 15:30*
Surr: Dibromofluoromethane	*94.9*			**0**	*80-119*	*%REC*	*250*	*19-Aug-2022 16:54*
Surr: Toluene-d8	*106*			**0**	*89-112*	*%REC*	*250*	*19-Aug-2022 16:54*
Surr: Toluene-d8	*106*			**0**	*89-112*	*%REC*	*25*	*19-Aug-2022 15:30*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 19-Aug-2022		Analyst: MBG
1,4-Dioxane	**430**		**10**	**10**	**10**	**ug/L**	1000	29-Aug-2022 16:09
Surr: 2-Fluorobiphenyl	*0*	*S*		0	*40-140*	*%REC*	*1000*	*29-Aug-2022 16:09*
Surr: 4-Terphenyl-d14	*0*	*S*		0	*40-140*	*%REC*	*1000*	*29-Aug-2022 16:09*
Surr: Nitrobenzene-d5	*0*	*S*		0	*40-140*	*%REC*	*1000*	*29-Aug-2022 16:09*

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

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: MW14_081522
Collection Date: 15-Aug-2022 09:50

ANALYTICAL REPORT
WorkOrder:HS22080933
Lab ID:HS22080933-04
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 23-Aug-2022		Analyst: YP
Aluminum	**0.0594**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	30-Aug-2022 21:37
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	30-Aug-2022 21:37
Arsenic	**0.00520**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	30-Aug-2022 21:37
Barium	**0.272**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	30-Aug-2022 21:37
Beryllium	**0.000994**	J	**0.000200**	**0.000500**	**0.00200**	**mg/L**	1	30-Aug-2022 21:37
Cadmium	**0.00124**	J	**0.000200**	**0.000500**	**0.00200**	**mg/L**	1	30-Aug-2022 21:37
Calcium	**112**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	30-Aug-2022 21:37
Chromium	**0.0987**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	30-Aug-2022 21:37
Cobalt	**0.0412**		**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	30-Aug-2022 21:37
Copper	**0.00254**	J	**0.00100**	**0.00250**	**0.00500**	**mg/L**	1	30-Aug-2022 21:37
Iron	**117**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	30-Aug-2022 21:37
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	30-Aug-2022 21:37
Magnesium	**57.2**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	30-Aug-2022 21:37
Manganese	**4.32**		**0.0140**	**0.0500**	**0.100**	**mg/L**	20	31-Aug-2022 12:10
Nickel	**0.176**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	30-Aug-2022 21:37
Potassium	**10.7**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	30-Aug-2022 21:37
Selenium	0.00250	U	0.00110	0.00250	0.00500	mg/L	1	30-Aug-2022 21:37
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	30-Aug-2022 21:37
Sodium	**384**		**0.280**	**1.00**	**4.00**	**mg/L**	20	31-Aug-2022 12:10
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	30-Aug-2022 21:37
Vanadium	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	30-Aug-2022 21:37
Zinc	**1.36**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	30-Aug-2022 21:37
SUBCONTRACT ANALYSIS - MERCURY LOW		**Method:NA**						Analyst: SUBK
Subcontract Analysis	See Attached		0	0		NA	1	02-Sep-2022 13:50
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	29-Aug-2022 16:15

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

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: MW18_081522
Collection Date: 15-Aug-2022 10:40

ANALYTICAL REPORT
WorkOrder:HS22080933
Lab ID:HS22080933-05
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:47
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:47
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	19-Aug-2022 14:47
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:47
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:47
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:47
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:47
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 14:47
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	19-Aug-2022 14:47
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	19-Aug-2022 14:47
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:47
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	19-Aug-2022 14:47
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:47
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	19-Aug-2022 14:47
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:47
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	19-Aug-2022 14:47
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:47
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 14:47
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:47
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 14:47
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:47
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	19-Aug-2022 14:47
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:47
2-Hexanone	2.0	U	1.0	2.0	2.0	ug/L	1	19-Aug-2022 14:47
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 14:47
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:47
4-Methyl-2-pentanone	2.0	U	0.70	2.0	2.0	ug/L	1	19-Aug-2022 14:47
Acetone	2.0	U	0.40	2.0	2.0	ug/L	1	19-Aug-2022 14:47
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:47
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 14:47
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:47
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:47
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 14:47
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 14:47
Carbon disulfide	2.0	U	0.60	2.0	2.0	ug/L	1	19-Aug-2022 14:47
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	19-Aug-2022 14:47
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:47
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:47
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:47

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

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: MW18_081522
Collection Date: 15-Aug-2022 10:40

ANALYTICAL REPORT
WorkOrder:HS22080933
Lab ID:HS22080933-05
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:47
cis-1,2-Dichloroethene	**1.1**		**0.20**	**0.50**	**1.0**	**ug/L**	1	19-Aug-2022 14:47
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:47
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:47
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:47
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:47
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:47
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	19-Aug-2022 14:47
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:47
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	19-Aug-2022 14:47
Methylene chloride	2.0	U	0.40	2.0	2.0	ug/L	1	19-Aug-2022 14:47
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 14:47
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:47
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:47
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:47
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:47
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:47
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:47
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:47
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:47
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:47
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:47
Trichloroethene	**8.4**		**0.20**	**0.50**	**1.0**	**ug/L**	1	19-Aug-2022 14:47
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:47
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:47
Surr: 1,2-Dichloroethane-d4	*96.8*			**0**	*81-118*	*%REC*	*1*	*19-Aug-2022 14:47*
Surr: 4-Bromofluorobenzene	*95.3*			**0**	*85-114*	*%REC*	*1*	*19-Aug-2022 14:47*
Surr: Dibromofluoromethane	*95.0*			**0**	*80-119*	*%REC*	*1*	*19-Aug-2022 14:47*
Surr: Toluene-d8	*106*			**0**	*89-112*	*%REC*	*1*	*19-Aug-2022 14:47*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	29-Aug-2022 16:15

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

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18WW25_081522
Collection Date: 15-Aug-2022 11:25

ANALYTICAL REPORT
WorkOrder:HS22080933
Lab ID:HS22080933-06
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:26
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:26
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	19-Aug-2022 14:26
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:26
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:26
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:26
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:26
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 14:26
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	19-Aug-2022 14:26
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	19-Aug-2022 14:26
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:26
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	19-Aug-2022 14:26
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:26
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	19-Aug-2022 14:26
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:26
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	19-Aug-2022 14:26
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:26
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 14:26
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:26
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 14:26
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:26
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	19-Aug-2022 14:26
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:26
2-Hexanone	2.0	U	1.0	2.0	2.0	ug/L	1	19-Aug-2022 14:26
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 14:26
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:26
4-Methyl-2-pentanone	2.0	U	0.70	2.0	2.0	ug/L	1	19-Aug-2022 14:26
Acetone	2.0	U	0.40	2.0	2.0	ug/L	1	19-Aug-2022 14:26
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:26
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 14:26
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:26
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:26
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 14:26
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 14:26
Carbon disulfide	2.0	U	0.60	2.0	2.0	ug/L	1	19-Aug-2022 14:26
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	19-Aug-2022 14:26
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:26
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:26
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:26

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

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18WW25_081522
Collection Date: 15-Aug-2022 11:25

ANALYTICAL REPORT
WorkOrder:HS22080933
Lab ID:HS22080933-06
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:26
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:26
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:26
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:26
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:26
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:26
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:26
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	19-Aug-2022 14:26
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:26
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	19-Aug-2022 14:26
Methylene chloride	2.0	U	0.40	2.0	2.0	ug/L	1	19-Aug-2022 14:26
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 14:26
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:26
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:26
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:26
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:26
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:26
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:26
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:26
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:26
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:26
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:26
Trichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:26
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 14:26
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 14:26
Surr: 1,2-Dichloroethane-d4	*95.0*			**0**	*81-118*	*%REC*	*1*	*19-Aug-2022 14:26*
Surr: 4-Bromofluorobenzene	*94.8*			**0**	*85-114*	*%REC*	*1*	*19-Aug-2022 14:26*
Surr: Dibromofluoromethane	*94.2*			**0**	*80-119*	*%REC*	*1*	*19-Aug-2022 14:26*
Surr: Toluene-d8	*106*			**0**	*89-112*	*%REC*	*1*	*19-Aug-2022 14:26*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 19-Aug-2022		Analyst: MBG
1,4-Dioxane	**0.17**		**0.010**	**0.010**	**0.010**	**ug/L**	1	27-Aug-2022 15:17
Surr: 2-Fluorobiphenyl	*59.4*			**0**	*40-140*	*%REC*	*1*	*27-Aug-2022 15:17*
Surr: 4-Terphenyl-d14	*65.1*			**0**	*40-140*	*%REC*	*1*	*27-Aug-2022 15:17*
Surr: Nitrobenzene-d5	*78.6*			**0**	*40-140*	*%REC*	*1*	*27-Aug-2022 15:17*

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

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18WW25_081522
Collection Date: 15-Aug-2022 11:25

ANALYTICAL REPORT
WorkOrder:HS22080933
Lab ID:HS22080933-06
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 23-Aug-2022		Analyst: YP
Aluminum	**0.0823**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	30-Aug-2022 21:39
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	30-Aug-2022 21:39
Arsenic	**0.00354**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	30-Aug-2022 21:39
Barium	**0.400**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	30-Aug-2022 21:39
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	30-Aug-2022 21:39
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	30-Aug-2022 21:39
Calcium	**16.1**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	30-Aug-2022 21:39
Chromium	**0.000907**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	30-Aug-2022 21:39
Cobalt	**0.00106**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	30-Aug-2022 21:39
Copper	0.00250	U	0.00100	0.00250	0.00500	mg/L	1	30-Aug-2022 21:39
Iron	**35.2**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	30-Aug-2022 21:39
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	30-Aug-2022 21:39
Magnesium	**9.73**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	30-Aug-2022 21:39
Manganese	**2.14**		**0.0140**	**0.0500**	**0.100**	**mg/L**	20	31-Aug-2022 12:12
Nickel	**0.000760**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	30-Aug-2022 21:39
Potassium	**1.13**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	30-Aug-2022 21:39
Selenium	0.00250	U	0.00110	0.00250	0.00500	mg/L	1	30-Aug-2022 21:39
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	30-Aug-2022 21:39
Sodium	**37.1**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	30-Aug-2022 21:39
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	30-Aug-2022 21:39
Vanadium	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	30-Aug-2022 21:39
Zinc	**0.00665**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	30-Aug-2022 21:39
SUBCONTRACT ANALYSIS - MERCURY LOW		**Method:NA**						Analyst: SUBK
Subcontract Analysis	See Attached		0	0		NA	1	02-Sep-2022 13:50
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	29-Aug-2022 16:15

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

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18CPTMW15_081522
Collection Date: 15-Aug-2022 12:10

ANALYTICAL REPORT
WorkOrder:HS22080933
Lab ID:HS22080933-07
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:44
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:44
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	19-Aug-2022 13:44
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:44
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:44
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:44
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:44
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 13:44
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	19-Aug-2022 13:44
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	19-Aug-2022 13:44
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:44
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	19-Aug-2022 13:44
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:44
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	19-Aug-2022 13:44
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:44
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	19-Aug-2022 13:44
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:44
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 13:44
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:44
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 13:44
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:44
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	19-Aug-2022 13:44
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:44
2-Hexanone	2.0	U	1.0	2.0	2.0	ug/L	1	19-Aug-2022 13:44
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 13:44
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:44
4-Methyl-2-pentanone	2.0	U	0.70	2.0	2.0	ug/L	1	19-Aug-2022 13:44
Acetone	2.0	U	0.40	2.0	2.0	ug/L	1	19-Aug-2022 13:44
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:44
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 13:44
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:44
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:44
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 13:44
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 13:44
Carbon disulfide	2.0	U	0.60	2.0	2.0	ug/L	1	19-Aug-2022 13:44
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	19-Aug-2022 13:44
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:44
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:44
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:44

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

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18CPTMW15_081522
Collection Date: 15-Aug-2022 12:10

ANALYTICAL REPORT
WorkOrder:HS22080933
Lab ID:HS22080933-07
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:44
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:44
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:44
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:44
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:44
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:44
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:44
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	19-Aug-2022 13:44
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:44
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	19-Aug-2022 13:44
Methylene chloride	2.0	U	0.40	2.0	2.0	ug/L	1	19-Aug-2022 13:44
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 13:44
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:44
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:44
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:44
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:44
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:44
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:44
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:44
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:44
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:44
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:44
Trichloroethene	**1.5**		**0.20**	**0.50**	**1.0**	**ug/L**	1	19-Aug-2022 13:44
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:44
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:44
Surr: 1,2-Dichloroethane-d4	*95.9*			**0**	*81-118*	*%REC*	*1*	*19-Aug-2022 13:44*
Surr: 4-Bromofluorobenzene	*95.8*			**0**	*85-114*	*%REC*	*1*	*19-Aug-2022 13:44*
Surr: Dibromofluoromethane	*95.0*			**0**	*80-119*	*%REC*	*1*	*19-Aug-2022 13:44*
Surr: Toluene-d8	*108*			**0**	*89-112*	*%REC*	*1*	*19-Aug-2022 13:44*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 19-Aug-2022		Analyst: MBG
1,4-Dioxane	**0.23**		**0.010**	**0.010**	**0.010**	**ug/L**	1	27-Aug-2022 15:35
Surr: 2-Fluorobiphenyl	*59.1*			**0**	*40-140*	*%REC*	*1*	*27-Aug-2022 15:35*
Surr: 4-Terphenyl-d14	*61.2*			**0**	*40-140*	*%REC*	*1*	*27-Aug-2022 15:35*
Surr: Nitrobenzene-d5	*78.5*			**0**	*40-140*	*%REC*	*1*	*27-Aug-2022 15:35*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	29-Aug-2022 16:15

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

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: CO6_081522
Collection Date: 15-Aug-2022 13:00

ANALYTICAL REPORT
WorkOrder:HS22080933
Lab ID:HS22080933-08
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:23
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:23
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	19-Aug-2022 13:23
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:23
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:23
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:23
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:23
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 13:23
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	19-Aug-2022 13:23
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	19-Aug-2022 13:23
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:23
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	19-Aug-2022 13:23
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:23
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	19-Aug-2022 13:23
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:23
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	19-Aug-2022 13:23
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:23
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 13:23
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:23
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 13:23
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:23
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	19-Aug-2022 13:23
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:23
2-Hexanone	2.0	U	1.0	2.0	2.0	ug/L	1	19-Aug-2022 13:23
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 13:23
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:23
4-Methyl-2-pentanone	2.0	U	0.70	2.0	2.0	ug/L	1	19-Aug-2022 13:23
Acetone	2.0	U	0.40	2.0	2.0	ug/L	1	19-Aug-2022 13:23
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:23
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 13:23
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:23
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:23
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 13:23
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 13:23
Carbon disulfide	2.0	U	0.60	2.0	2.0	ug/L	1	19-Aug-2022 13:23
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	19-Aug-2022 13:23
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:23
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:23
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:23

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

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: CO6_081522
Collection Date: 15-Aug-2022 13:00

ANALYTICAL REPORT
WorkOrder:HS22080933
Lab ID:HS22080933-08
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:23
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:23
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:23
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:23
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:23
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:23
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:23
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	19-Aug-2022 13:23
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:23
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	19-Aug-2022 13:23
Methylene chloride	2.0	U	0.40	2.0	2.0	ug/L	1	19-Aug-2022 13:23
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 13:23
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:23
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:23
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:23
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:23
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:23
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:23
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:23
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:23
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:23
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:23
Trichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:23
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:23
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:23
Surr: 1,2-Dichloroethane-d4	*95.5*			**0**	*81-118*	*%REC*	*1*	*19-Aug-2022 13:23*
Surr: 4-Bromofluorobenzene	*95.5*			**0**	*85-114*	*%REC*	*1*	*19-Aug-2022 13:23*
Surr: Dibromofluoromethane	*94.3*			**0**	*80-119*	*%REC*	*1*	*19-Aug-2022 13:23*
Surr: Toluene-d8	*106*			**0**	*89-112*	*%REC*	*1*	*19-Aug-2022 13:23*

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

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: CO6_081522
Collection Date: 15-Aug-2022 13:00

ANALYTICAL REPORT
WorkOrder:HS22080933
Lab ID:HS22080933-08
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 23-Aug-2022		Analyst: YP
Aluminum	**0.0364**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	30-Aug-2022 21:41
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	30-Aug-2022 21:41
Arsenic	**0.00106**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	30-Aug-2022 21:41
Barium	**1.00**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	30-Aug-2022 21:41
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	30-Aug-2022 21:41
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	30-Aug-2022 21:41
Calcium	**19.1**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	30-Aug-2022 21:41
Chromium	**0.000587**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	30-Aug-2022 21:41
Cobalt	**0.00163**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	30-Aug-2022 21:41
Copper	0.00250	U	0.00100	0.00250	0.00500	mg/L	1	30-Aug-2022 21:41
Iron	**60.6**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	30-Aug-2022 21:41
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	30-Aug-2022 21:41
Magnesium	**10.7**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	30-Aug-2022 21:41
Manganese	**0.917**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	30-Aug-2022 21:41
Nickel	**0.00118**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	30-Aug-2022 21:41
Potassium	**3.70**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	30-Aug-2022 21:41
Selenium	0.00250	U	0.00110	0.00250	0.00500	mg/L	1	30-Aug-2022 21:41
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	30-Aug-2022 21:41
Sodium	**207**		**0.280**	**1.00**	**4.00**	**mg/L**	20	31-Aug-2022 12:14
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	30-Aug-2022 21:41
Vanadium	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	30-Aug-2022 21:41
Zinc	**0.00871**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	30-Aug-2022 21:41
SUBCONTRACT ANALYSIS - MERCURY LOW		**Method:NA**						Analyst: SUBK
Subcontract Analysis	See Attached		0	0		NA	1	02-Sep-2022 13:50
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	29-Aug-2022 16:15

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

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: Trip Blank
Collection Date: 15-Aug-2022 00:00

ANALYTICAL REPORT
WorkOrder:HS22080933
Lab ID:HS22080933-09
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: PC
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:02
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:02
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	19-Aug-2022 13:02
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:02
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:02
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:02
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:02
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 13:02
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	19-Aug-2022 13:02
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	19-Aug-2022 13:02
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:02
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	19-Aug-2022 13:02
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:02
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	19-Aug-2022 13:02
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:02
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	19-Aug-2022 13:02
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:02
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 13:02
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:02
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 13:02
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:02
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	19-Aug-2022 13:02
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:02
2-Hexanone	2.0	U	1.0	2.0	2.0	ug/L	1	19-Aug-2022 13:02
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 13:02
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:02
4-Methyl-2-pentanone	2.0	U	0.70	2.0	2.0	ug/L	1	19-Aug-2022 13:02
Acetone	2.0	U	0.40	2.0	2.0	ug/L	1	19-Aug-2022 13:02
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:02
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 13:02
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:02
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:02
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 13:02
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 13:02
Carbon disulfide	2.0	U	0.60	2.0	2.0	ug/L	1	19-Aug-2022 13:02
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	19-Aug-2022 13:02
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:02
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:02
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:02

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

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: Trip Blank
Collection Date: 15-Aug-2022 00:00

ANALYTICAL REPORT
WorkOrder:HS22080933
Lab ID:HS22080933-09
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: PC
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:02
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:02
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:02
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:02
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:02
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:02
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:02
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	19-Aug-2022 13:02
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:02
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	19-Aug-2022 13:02
Methylene chloride	2.0	U	0.40	2.0	2.0	ug/L	1	19-Aug-2022 13:02
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	19-Aug-2022 13:02
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:02
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:02
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:02
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:02
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:02
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:02
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:02
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:02
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:02
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:02
Trichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:02
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	19-Aug-2022 13:02
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	19-Aug-2022 13:02
Surr: 1,2-Dichloroethane-d4	*94.8*			**0**	*81-118*	*%REC*	*1*	*19-Aug-2022 13:02*
Surr: 4-Bromofluorobenzene	*93.0*			**0**	*85-114*	*%REC*	*1*	*19-Aug-2022 13:02*
Surr: Dibromofluoromethane	*95.5*			**0**	*80-119*	*%REC*	*1*	*19-Aug-2022 13:02*
Surr: Toluene-d8	*107*			**0**	*89-112*	*%REC*	*1*	*19-Aug-2022 13:02*

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

ALS Houston, US Date: 02-Sep-22

Weight / Prep Log

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

Batch ID: 182674 **Start Date:** 19 Aug 2022 09:00 **End Date:** 19 Aug 2022 15:00
Method: SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_SIM

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS22080933-01	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS22080933-02	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS22080933-03	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS22080933-04	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS22080933-06	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS22080933-07	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat

Batch ID: 182759 **Start Date:** 23 Aug 2022 10:00 **End Date:** 23 Aug 2022 14:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS22080933-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS22080933-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS22080933-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS22080933-08		10 (mL)	10 (mL)	1	120 plastic HNO3

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 182674 (0)	**Test Name :** SEMIVOLATILES SIM				**Matrix:** Groundwater	
HS22080933-01	18CPTMW03SW_081522	15 Aug 2022 07:35		19 Aug 2022 13:55	27 Aug 2022 14:05	1
HS22080933-02	1824DPTMW05_081522	15 Aug 2022 08:20		19 Aug 2022 13:55	29 Aug 2022 15:33	100
HS22080933-03	120_081522	15 Aug 2022 09:05		19 Aug 2022 13:55	29 Aug 2022 15:51	100
HS22080933-04	MW14_081522	15 Aug 2022 09:50		19 Aug 2022 13:55	29 Aug 2022 16:09	1000
HS22080933-06	18WW25_081522	15 Aug 2022 11:25		19 Aug 2022 13:55	27 Aug 2022 15:17	1
HS22080933-07	18CPTMW15_081522	15 Aug 2022 12:10		19 Aug 2022 13:55	27 Aug 2022 15:35	1
Batch ID: 182759 (0)	**Test Name :** METALS BY ICPMS BY SW6020A				**Matrix:** Groundwater	
HS22080933-01	18CPTMW03SW_081522	15 Aug 2022 07:35		23 Aug 2022 10:00	31 Aug 2022 12:08	20
HS22080933-01	18CPTMW03SW_081522	15 Aug 2022 07:35		23 Aug 2022 10:00	30 Aug 2022 21:35	1
HS22080933-04	MW14_081522	15 Aug 2022 09:50		23 Aug 2022 10:00	31 Aug 2022 12:10	20
HS22080933-04	MW14_081522	15 Aug 2022 09:50		23 Aug 2022 10:00	30 Aug 2022 21:37	1
HS22080933-06	18WW25_081522	15 Aug 2022 11:25		23 Aug 2022 10:00	31 Aug 2022 12:12	20
HS22080933-06	18WW25_081522	15 Aug 2022 11:25		23 Aug 2022 10:00	30 Aug 2022 21:39	1
HS22080933-08	CO6_081522	15 Aug 2022 13:00		23 Aug 2022 10:00	31 Aug 2022 12:14	20
HS22080933-08	CO6_081522	15 Aug 2022 13:00		23 Aug 2022 10:00	30 Aug 2022 21:41	1
Batch ID: R415491 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS22080933-09	Trip Blank	15 Aug 2022 00:00			19 Aug 2022 13:02	1
Batch ID: R415491 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Groundwater	
HS22080933-01	18CPTMW03SW_081522	15 Aug 2022 07:35			19 Aug 2022 14:05	1
HS22080933-02	1824DPTMW05_081522	15 Aug 2022 08:20			19 Aug 2022 15:08	25
HS22080933-03	120_081522	15 Aug 2022 09:05			19 Aug 2022 20:45	10
HS22080933-03	120_081522	15 Aug 2022 09:05			19 Aug 2022 15:51	50
HS22080933-04	MW14_081522	15 Aug 2022 09:50			19 Aug 2022 16:54	250
HS22080933-04	MW14_081522	15 Aug 2022 09:50			19 Aug 2022 15:30	25
HS22080933-05	MW18_081522	15 Aug 2022 10:40			19 Aug 2022 14:47	1
HS22080933-06	18WW25_081522	15 Aug 2022 11:25			19 Aug 2022 14:26	1
HS22080933-07	18CPTMW15_081522	15 Aug 2022 12:10			19 Aug 2022 13:44	1
HS22080933-08	CO6_081522	15 Aug 2022 13:00			19 Aug 2022 13:23	1
Batch ID: R416093 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Groundwater	
HS22080933-01	18CPTMW03SW_081522	15 Aug 2022 07:35			29 Aug 2022 16:15	1
HS22080933-02	1824DPTMW05_081522	15 Aug 2022 08:20			29 Aug 2022 16:15	1
HS22080933-03	120_081522	15 Aug 2022 09:05			29 Aug 2022 16:15	1
HS22080933-04	MW14_081522	15 Aug 2022 09:50			29 Aug 2022 16:15	1
HS22080933-05	MW18_081522	15 Aug 2022 10:40			29 Aug 2022 16:15	1
HS22080933-06	18WW25_081522	15 Aug 2022 11:25			29 Aug 2022 16:15	1
HS22080933-07	18CPTMW15_081522	15 Aug 2022 12:10			29 Aug 2022 16:15	1
HS22080933-08	CO6_081522	15 Aug 2022 13:00			29 Aug 2022 16:15	1

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R416444 (0)	**Test Name :** SUBCONTRACT ANALYSIS - MERCURY LOW				**Matrix:** Groundwater	
HS22080933-01	18CPTMW03SW_081522	15 Aug 2022 07:35			02 Sep 2022 13:50	1
HS22080933-04	MW14_081522	15 Aug 2022 09:50			02 Sep 2022 13:50	1
HS22080933-06	18WW25_081522	15 Aug 2022 11:25			02 Sep 2022 13:50	1
HS22080933-08	CO6_081522	15 Aug 2022 13:00			02 Sep 2022 13:50	1

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

QC BATCH REPORT

Batch ID: 182759 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

MBLK Sample ID: **MBLK-182759** Units: **mg/L** Analysis Date: **30-Aug-2022 20:56**
Client ID: Run ID: **ICPMS07_416140** SeqNo: **6827359** PrepDate: **23-Aug-2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.004275	0.0100								J
Antimony	0.00125	0.00500								U
Arsenic	0.00125	0.00500								U
Barium	0.00250	0.00500								U
Beryllium	0.000500	0.00200								U
Cadmium	0.000500	0.00200								U
Calcium	0.0500	0.500								U
Chromium	0.00125	0.00500								U
Cobalt	0.000500	0.00500								U
Copper	0.00250	0.00500								U
Iron	0.0500	0.200								U
Lead	0.00125	0.00500								U
Magnesium	0.01144	0.200								J
Manganese	0.00250	0.00500								U
Nickel	0.00125	0.00500								U
Potassium	0.0500	0.200								U
Selenium	0.00250	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

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

QC BATCH REPORT

Batch ID: 182759 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

LCS Sample ID: **LCS-182759** Units: **mg/L** Analysis Date: **30-Aug-2022 20:57**
Client ID: Run ID: **ICPMS07_416140** SeqNo: **6827360** PrepDate: **23-Aug-2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1005	0.0100	0.1	0	101	84 - 117				
Antimony	0.05	0.00500	0.05	0	100.0	85 - 117				
Arsenic	0.05288	0.00500	0.05	0	106	84 - 116				
Barium	0.05124	0.00500	0.05	0	102	86 - 114				
Beryllium	0.05278	0.00200	0.05	0	106	83 - 121				
Cadmium	0.05132	0.00200	0.05	0	103	87 - 115				
Calcium	5.231	0.500	5	0	105	87 - 118				
Chromium	0.05031	0.00500	0.05	0	101	85 - 116				
Cobalt	0.04922	0.00500	0.05	0	98.4	86 - 115				
Copper	0.05101	0.00500	0.05	0	102	85 - 118				
Iron	5.232	0.200	5	0	105	87 - 118				
Lead	0.05029	0.00500	0.05	0	101	88 - 115				
Magnesium	5.336	0.200	5	0	107	83 - 118				
Manganese	0.05235	0.00500	0.05	0	105	87 - 115				
Nickel	0.05244	0.00500	0.05	0	105	85 - 117				
Potassium	5.221	0.200	5	0	104	87 - 115				
Selenium	0.05235	0.00500	0.05	0	105	80 - 120				
Silver	0.04621	0.00500	0.05	0	92.4	85 - 116				
Sodium	5.156	0.200	5	0	103	85 - 117				
Thallium	0.0528	0.00200	0.05	0	106	82 - 116				
Vanadium	0.05189	0.00500	0.05	0	104	86 - 115				
Zinc	0.05532	0.00500	0.05	0	111	83 - 119				

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

QC BATCH REPORT

Batch ID: 182759 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

MS Sample ID: **HS22080927-01MS** Units: **mg/L** Analysis Date: **30-Aug-2022 21:03**
Client ID: Run ID: **ICPMS07_416140** SeqNo: **6827362** PrepDate: **23-Aug-2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.2063	0.0100	0.1	0.07482	132	84 - 117				S
Antimony	0.04915	0.00500	0.05	0.000049	98.2	85 - 117				
Arsenic	0.05221	0.00500	0.05	0.000127	104	84 - 116				
Barium	0.1068	0.00500	0.05	0.05491	104	86 - 114				
Beryllium	0.05182	0.00200	0.05	0.000049	104	83 - 121				
Cadmium	0.05147	0.00200	0.05	0.000053	103	87 - 115				
Calcium	6.814	0.500	5	1.716	102	87 - 118				
Chromium	0.1758	0.00500	0.05	0.1175	117	85 - 116				S
Cobalt	0.04855	0.00500	0.05	0.000309	96.5	86 - 115				
Copper	0.05036	0.00500	0.05	0.00044	99.8	85 - 118				
Iron	5.603	0.200	5	0.5027	102	87 - 118				
Lead	0.04944	0.00500	0.05	0.00008	98.7	88 - 115				
Magnesium	6.322	0.200	5	1.081	105	83 - 118				
Manganese	0.05472	0.00500	0.05	0.00406	101	87 - 115				
Nickel	0.09399	0.00500	0.05	0.04366	101	85 - 117				
Potassium	5.841	0.200	5	0.7383	102	87 - 115				
Selenium	0.05468	0.00500	0.05	0.004197	101	80 - 120				
Silver	0.04504	0.00500	0.05	-0.000013	90.1	85 - 116				
Sodium	44.33	0.200	5	39.66	93.5	85 - 117				O
Thallium	0.05224	0.00200	0.05	0.000031	104	82 - 116				
Vanadium	0.05116	0.00500	0.05	0.000306	102	86 - 115				
Zinc	0.05739	0.00500	0.05	0.004188	106	83 - 119				

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

QC BATCH REPORT

Batch ID: 182759 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

MSD Sample ID: **HS22080927-01MSD** Units: **mg/L** Analysis Date: **30-Aug-2022 21:07**
Client ID: Run ID: **ICPMS07_416140** SeqNo: **6827364** PrepDate: **23-Aug-2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.2093	0.0100	0.1	0.07482	134	84 - 117	0.2063	1.41	20	S
Antimony	0.04856	0.00500	0.05	0.000049	97.0	85 - 117	0.04915	1.22	20	
Arsenic	0.05175	0.00500	0.05	0.000127	103	84 - 116	0.05221	0.877	20	
Barium	0.1063	0.00500	0.05	0.05491	103	86 - 114	0.1068	0.435	20	
Beryllium	0.05054	0.00200	0.05	0.000049	101	83 - 121	0.05182	2.5	20	
Cadmium	0.05158	0.00200	0.05	0.000053	103	87 - 115	0.05147	0.21	20	
Calcium	6.779	0.500	5	1.716	101	87 - 118	6.814	0.526	20	
Chromium	0.1728	0.00500	0.05	0.1175	111	85 - 116	0.1758	1.69	20	
Cobalt	0.04824	0.00500	0.05	0.000309	95.9	86 - 115	0.04855	0.641	20	
Copper	0.05027	0.00500	0.05	0.00044	99.7	85 - 118	0.05036	0.175	20	
Iron	5.536	0.200	5	0.5027	101	87 - 118	5.603	1.21	20	
Lead	0.0493	0.00500	0.05	0.00008	98.4	88 - 115	0.04944	0.284	20	
Magnesium	6.269	0.200	5	1.081	104	83 - 118	6.322	0.849	20	
Manganese	0.05456	0.00500	0.05	0.00406	101	87 - 115	0.05472	0.296	20	
Nickel	0.09366	0.00500	0.05	0.04366	100.0	85 - 117	0.09399	0.352	20	
Potassium	5.803	0.200	5	0.7383	101	87 - 115	5.841	0.656	20	
Selenium	0.0534	0.00500	0.05	0.004197	98.4	80 - 120	0.05468	2.36	20	
Silver	0.04479	0.00500	0.05	-0.000013	89.6	85 - 116	0.04504	0.563	20	
Sodium	43.98	0.200	5	39.66	86.4	85 - 117	44.33	0.795	20	O
Thallium	0.05176	0.00200	0.05	0.000031	103	82 - 116	0.05224	0.919	20	
Vanadium	0.05096	0.00500	0.05	0.000306	101	86 - 115	0.05116	0.403	20	
Zinc	0.05769	0.00500	0.05	0.004188	107	83 - 119	0.05739	0.518	20	

PDS Sample ID: **HS22080927-01PDS** Units: **mg/L** Analysis Date: **31-Aug-2022 12:51**
Client ID: Run ID: **ICPMS07_416222** SeqNo: **6828786** PrepDate: **23-Aug-2022** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.5656	0.0500	0.5	0.1067	91.8	80 - 120				

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

QC BATCH REPORT

Batch ID: 182759 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

PDS Sample ID: **HS22080927-01PDS** Units: **mg/L** Analysis Date: **30-Aug-2022 21:09**
Client ID: Run ID: **ICPMS07_416140** SeqNo: **6827365** PrepDate: **23-Aug-2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.09654	0.00500	0.1	0.000049	96.5	80 - 120				
Arsenic	0.1023	0.00500	0.1	0.000127	102	80 - 120				
Barium	0.1535	0.00500	0.1	0.05491	98.6	80 - 120				
Beryllium	0.1007	0.00200	0.1	0.000049	101	80 - 120				
Cadmium	0.09996	0.00200	0.1	0.000053	99.9	80 - 120				
Calcium	11.53	0.500	10	1.716	98.1	80 - 120				
Chromium	0.2149	0.00500	0.1	0.1175	97.4	80 - 120				
Cobalt	0.101	0.00500	0.1	0.000309	101	80 - 120				
Copper	0.09805	0.00500	0.1	0.00044	97.6	80 - 120				
Iron	10.4	0.200	10	0.5027	99.0	80 - 120				
Lead	0.09834	0.00500	0.1	0.00008	98.3	80 - 120				
Magnesium	11.03	0.200	10	1.081	99.4	80 - 120				
Manganese	0.1021	0.00500	0.1	0.00406	98.1	80 - 120				
Nickel	0.1425	0.00500	0.1	0.04366	98.8	80 - 120				
Potassium	10.55	0.200	10	0.7383	98.1	80 - 120				
Selenium	0.1034	0.00500	0.1	0.004197	99.2	80 - 120				
Silver	0.1002	0.00500	0.1	-0.000013	100	80 - 120				
Sodium	47.97	0.200	10	39.66	83.1	80 - 120				
Thallium	0.1013	0.00200	0.1	0.000031	101	80 - 120				
Vanadium	0.1006	0.00500	0.1	0.000306	100	80 - 120				
Zinc	0.1094	0.00500	0.1	0.004188	105	80 - 120				

SD Sample ID: **HS22080927-01SD** Units: **mg/L** Analysis Date: **31-Aug-2022 12:49**
Client ID: Run ID: **ICPMS07_416222** SeqNo: **6828785** PrepDate: **23-Aug-2022** DF: **25**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Aluminum	0.09055	0.250					0.1067	0	10	J

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

QC BATCH REPORT

Batch ID: 182759 (0) **Instrument: ICPMS07** **Method: METALS BY ICPMS BY SW6020A**

SD Sample ID: **HS22080927-01SD** Units: **mg/L** Analysis Date: **30-Aug-2022 21:11**
Client ID: Run ID: **ICPMS07_416140** SeqNo: **6827366** PrepDate: **23-Aug-2022** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Antimony	0.00625	0.0250					0.000049	0	10	U
Arsenic	0.00625	0.0250					0.000127	0	10	U
Barium	0.05497	0.0250					0.05491	0.109	10	
Beryllium	0.00250	0.0100					0.000049	0	10	U
Cadmium	0.00250	0.0100					0.000053	0	10	U
Calcium	1.809	2.50					1.716	0	10	J
Chromium	0.1196	0.0250					0.1175	1.8	10	
Cobalt	0.00250	0.0250					0.000309	0	10	U
Copper	0.0125	0.0250					0.00044	0	10	U
Iron	0.4834	1.00					0.5027	0	10	J
Lead	0.00625	0.0250					0.00008	0	10	U
Magnesium	1.105	1.00					1.081	2.18	10	
Manganese	0.004123	0.0250					0.00406	0	10	J
Nickel	0.04278	0.0250					0.04366	2.03	10	
Potassium	0.7194	1.00					0.7383	0	10	J
Selenium	0.0125	0.0250					0.004197	0	10	U
Silver	0.00250	0.0250					-0.000013	0	10	U
Sodium	40.29	1.00					39.66	1.58	10	
Thallium	0.00250	0.0100					0.000031	0	10	U
Vanadium	0.00625	0.0250					0.000306	0	10	U
Zinc	0.0125	0.0250					0.004188	0	10	U

The following samples were analyzed in this batch: HS22080933-01 HS22080933-04 HS22080933-06 HS22080933-08

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

QC BATCH REPORT

Batch ID: 182674 (0) **Instrument: SV-6** **Method: SEMIVOLATILES SIM**

MBLK Sample ID: **MBLK-182674** Units: **ug/L** Analysis Date: **23-Aug-2022 13:03**
Client ID: Run ID: **SV-6_416162** SeqNo: **6826854** PrepDate: **19-Aug-2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.010	0.010								U
Surr: 2-Fluorobiphenyl	*0.03569*	*0*	*0.08*	*0*	*44.6*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.04792*	*0*	*0.08*	*0*	*59.9*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.0669*	*0*	*0.08*	*0*	*83.6*	*40 - 140*				

LCS Sample ID: **LCS-182674** Units: **ug/L** Analysis Date: **23-Aug-2022 13:21**
Client ID: Run ID: **SV-6_416162** SeqNo: **6826855** PrepDate: **19-Aug-2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.1002	0.010	0.08	0	125	40 - 140				
Surr: 2-Fluorobiphenyl	*0.03523*	*0*	*0.08*	*0*	*44.0*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.0527*	*0*	*0.08*	*0*	*65.9*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.06923*	*0*	*0.08*	*0*	*86.5*	*40 - 140*				

LCSD Sample ID: **LCSD-182674** Units: **ug/L** Analysis Date: **23-Aug-2022 13:39**
Client ID: Run ID: **SV-6_416162** SeqNo: **6826856** PrepDate: **19-Aug-2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.1092	0.010	0.08	0	137	40 - 140	0.1002	8.62	20	
Surr: 2-Fluorobiphenyl	*0.0368*	*0*	*0.08*	*0*	*46.0*	*40 - 140*	*0.03523*	*4.37*	*20*	
Surr: 4-Terphenyl-d14	*0.05038*	*0*	*0.08*	*0*	*63.0*	*40 - 140*	*0.0527*	*4.51*	*20*	
Surr: Nitrobenzene-d5	*0.06967*	*0*	*0.08*	*0*	*87.1*	*40 - 140*	*0.06923*	*0.631*	*20*	

The following samples were analyzed in this batch: HS22080933-01 HS22080933-02 HS22080933-03 HS22080933-04 HS22080933-06 HS22080933-07

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

QC BATCH REPORT

Batch ID: R415491 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-220819** Units: **ug/L** Analysis Date: **19-Aug-2022 12:41**
Client ID: Run ID: **VOA6_415491** SeqNo: **6810903** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	1.0	1.0								U
1,1,1-Trichloroethane	0.50	1.0								U
1,1,2,2-Tetrachloroethane	1.0	1.0								U
1,1,2-Trichloroethane	1.0	1.0								U
1,1-Dichloroethane	0.50	1.0								U
1,1-Dichloroethene	0.50	1.0								U
1,1-Dichloropropene	1.0	1.0								U
1,2,3-Trichlorobenzene	1.0	1.0								U
1,2,3-Trichloropropane	1.0	1.0								U
1,2,4-Trichlorobenzene	1.0	1.0								U
1,2,4-Trimethylbenzene	1.0	1.0								U
1,2-Dibromo-3-chloropropane	1.0	1.0								U
1,2-Dibromoethane	0.50	1.0								U
1,2-Dichlorobenzene	1.0	1.0								U
1,2-Dichloroethane	0.50	1.0								U
1,2-Dichloropropane	1.0	1.0								U
1,3,5-Trimethylbenzene	1.0	1.0								U
1,3-Dichlorobenzene	1.0	1.0								U
1,3-Dichloropropane	1.0	1.0								U
1,4-Dichlorobenzene	1.0	1.0								U
2,2-Dichloropropane	0.50	1.0								U
2-Butanone	1.0	2.0								U
2-Chlorotoluene	1.0	1.0								U
2-Hexanone	2.0	2.0								U
4-Chlorotoluene	1.0	1.0								U
4-Isopropyltoluene	1.0	1.0								U
4-Methyl-2-pentanone	2.0	2.0								U
Acetone	2.0	2.0								U
Benzene	0.50	1.0								U
Bromobenzene	1.0	1.0								U
Bromochloromethane	0.50	1.0								U
Bromodichloromethane	0.50	1.0								U
Bromoform	1.0	1.0								U
Bromomethane	1.0	1.0								U

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

QC BATCH REPORT

Batch ID: R415491 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-220819** Units: **ug/L** Analysis Date: **19-Aug-2022 12:41**
Client ID: Run ID: **VOA6_415491** SeqNo: **6810903** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	2.0	2.0								U
Carbon tetrachloride	1.0	1.0								U
Chlorobenzene	1.0	1.0								U
Chloroethane	1.0	1.0								U
Chloroform	0.50	1.0								U
Chloromethane	0.50	1.0								U
cis-1,2-Dichloroethene	0.50	1.0								U
cis-1,3-Dichloropropene	0.50	1.0								U
Dibromochloromethane	1.0	1.0								U
Dibromomethane	0.50	1.0								U
Dichlorodifluoromethane	1.0	1.0								U
Ethylbenzene	1.0	1.0								U
Hexachlorobutadiene	1.0	1.0								U
Isopropylbenzene	1.0	1.0								U
m,p-Xylene	1.0	2.0								U
Methylene chloride	2.0	2.0								U
Naphthalene	1.0	1.0								U
n-Butylbenzene	1.0	1.0								U
n-Propylbenzene	1.0	1.0								U
o-Xylene	1.0	1.0								U
sec-Butylbenzene	1.0	1.0								U
Styrene	1.0	1.0								U
tert-Butylbenzene	1.0	1.0								U
Tetrachloroethene	1.0	1.0								U
Toluene	0.50	1.0								U
trans-1,2-Dichloroethene	0.50	1.0								U
trans-1,3-Dichloropropene	0.50	1.0								U
Trichloroethene	0.50	1.0								U
Trichlorofluoromethane	1.0	1.0								U
Vinyl chloride	0.50	1.0								U
Surr: 1,2-Dichloroethane-d4	*48.62*	*1.0*	*50*	*0*	*97.2*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*48.33*	*1.0*	*50*	*0*	*96.7*	*85 - 114*				
Surr: Dibromofluoromethane	*47.99*	*1.0*	*50*	*0*	*96.0*	*80 - 119*				
Surr: Toluene-d8	*52.92*	*1.0*	*50*	*0*	*106*	*89 - 112*				

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

QC BATCH REPORT

Batch ID: R415491 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-220819** Units: **ug/L** Analysis Date: **19-Aug-2022 11:59**
Client ID: Run ID: **VOA6_415491** SeqNo: **6810902** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	20.39	1.0	20	0	102	78 - 124				
1,1,1-Trichloroethane	19.45	1.0	20	0	97.3	74 - 131				
1,1,2,2-Tetrachloroethane	19.94	1.0	20	0	99.7	71 - 121				
1,1,2-Trichloroethane	19.43	1.0	20	0	97.1	80 - 119				
1,1-Dichloroethane	18.61	1.0	20	0	93.0	77 - 125				
1,1-Dichloroethene	17.27	1.0	20	0	86.4	71 - 131				
1,1-Dichloropropene	19.78	1.0	20	0	98.9	78 - 125				
1,2,3-Trichlorobenzene	20.2	1.0	20	0	101	69 - 129				
1,2,3-Trichloropropane	20.86	1.0	20	0	104	73 - 122				
1,2,4-Trichlorobenzene	19.48	1.0	20	0	97.4	69 - 130				
1,2,4-Trimethylbenzene	21.67	1.0	20	0	108	76 - 124				
1,2-Dibromo-3-chloropropane	21.43	1.0	20	0	107	62 - 128				
1,2-Dibromoethane	19.38	1.0	20	0	96.9	77 - 121				
1,2-Dichlorobenzene	21.03	1.0	20	0	105	80 - 119				
1,2-Dichloroethane	19.13	1.0	20	0	95.6	73 - 128				
1,2-Dichloropropane	19.42	1.0	20	0	97.1	78 - 122				
1,3,5-Trimethylbenzene	21.72	1.0	20	0	109	75 - 124				
1,3-Dichlorobenzene	21.15	1.0	20	0	106	80 - 119				
1,3-Dichloropropane	19.3	1.0	20	0	96.5	80 - 119				
1,4-Dichlorobenzene	21	1.0	20	0	105	79 - 118				
2,2-Dichloropropane	19.77	1.0	20	0	98.9	60 - 139				
2-Butanone	35.29	2.0	40	0	88.2	56 - 143				
2-Chlorotoluene	20.53	1.0	20	0	103	79 - 122				
2-Hexanone	39.46	2.0	40	0	98.7	57 - 139				
4-Chlorotoluene	21.22	1.0	20	0	106	78 - 122				
4-Isopropyltoluene	22.24	1.0	20	0	111	77 - 127				
4-Methyl-2-pentanone	41.34	2.0	40	0	103	67 - 130				
Acetone	33.61	2.0	40	0	84.0	39 - 160				
Benzene	18.47	1.0	20	0	92.4	79 - 120				
Bromobenzene	20.51	1.0	20	0	103	80 - 120				
Bromochloromethane	18	1.0	20	0	90.0	78 - 123				
Bromodichloromethane	19.48	1.0	20	0	97.4	79 - 125				
Bromoform	19.05	1.0	20	0	95.2	66 - 130				
Bromomethane	17.87	1.0	20	0	89.3	53 - 141				

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

QC BATCH REPORT

Batch ID: R415491 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-220819** Units: **ug/L** Analysis Date: **19-Aug-2022 11:59**
Client ID: Run ID: **VOA6_415491** SeqNo: **6810902** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	35.69	2.0	40	0	89.2	64 - 133				
Carbon tetrachloride	18.38	1.0	20	0	91.9	72 - 136				
Chlorobenzene	20.16	1.0	20	0	101	82 - 118				
Chloroethane	17.37	1.0	20	0	86.9	60 - 138				
Chloroform	19.32	1.0	20	0	96.6	79 - 124				
Chloromethane	19.14	1.0	20	0	95.7	50 - 139				
cis-1,2-Dichloroethene	19.12	1.0	20	0	95.6	78 - 123				
cis-1,3-Dichloropropene	19.64	1.0	20	0	98.2	75 - 124				
Dibromochloromethane	19.36	1.0	20	0	96.8	74 - 126				
Dibromomethane	18.66	1.0	20	0	93.3	79 - 123				
Dichlorodifluoromethane	18.48	1.0	20	0	92.4	32 - 152				
Ethylbenzene	20.32	1.0	20	0	102	79 - 121				
Hexachlorobutadiene	21.78	1.0	20	0	109	66 - 134				
Isopropylbenzene	20.91	1.0	20	0	105	72 - 131				
m,p-Xylene	41.16	2.0	40	0	103	80 - 121				
Methylene chloride	19.83	2.0	20	0	99.2	74 - 124				
Naphthalene	20.45	1.0	20	0	102	61 - 128				
n-Butylbenzene	22.73	1.0	20	0	114	75 - 128				
n-Propylbenzene	22.2	1.0	20	0	111	76 - 126				
o-Xylene	20.1	1.0	20	0	100	78 - 122				
sec-Butylbenzene	22.29	1.0	20	0	111	77 - 126				
Styrene	20.36	1.0	20	0	102	78 - 123				
tert-Butylbenzene	21.63	1.0	20	0	108	78 - 124				
Tetrachloroethene	19.4	1.0	20	0	97.0	74 - 129				
Toluene	19.59	1.0	20	0	98.0	80 - 121				
trans-1,2-Dichloroethene	18.94	1.0	20	0	94.7	75 - 124				
trans-1,3-Dichloropropene	19.7	1.0	20	0	98.5	73 - 127				
Trichloroethene	19	1.0	20	0	95.0	79 - 123				
Trichlorofluoromethane	18.11	1.0	20	0	90.6	65 - 141				
Vinyl chloride	17.2	1.0	20	0	86.0	58 - 137				
Surr: 1,2-Dichloroethane-d4	*52.82*	*1.0*	*50*	*0*	*106*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*52.58*	*1.0*	*50*	*0*	*105*	*85 - 114*				
Surr: Dibromofluoromethane	*52.99*	*1.0*	*50*	*0*	*106*	*80 - 119*				
Surr: Toluene-d8	*52.39*	*1.0*	*50*	*0*	*105*	*89 - 112*				

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

QC BATCH REPORT

Batch ID: R415491 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS22080933-01MS** Units: **ug/L** Analysis Date: **19-Aug-2022 16:12**
Client ID: **18CPTMW03SW_081522** Run ID: **VOA6_415491** SeqNo: **6810913** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	21.69	1.0	20	0	108	78 - 124				
1,1,1-Trichloroethane	21.65	1.0	20	0	108	74 - 131				
1,1,2,2-Tetrachloroethane	21.38	1.0	20	0	107	71 - 121				
1,1,2-Trichloroethane	21.59	1.0	20	0	108	80 - 119				
1,1-Dichloroethane	20.65	1.0	20	0	103	77 - 125				
1,1-Dichloroethene	20.32	1.0	20	0	102	71 - 131				
1,1-Dichloropropene	22.58	1.0	20	0	113	78 - 125				
1,2,3-Trichlorobenzene	19.23	1.0	20	0	96.1	69 - 129				
1,2,3-Trichloropropane	21.81	1.0	20	0	109	73 - 122				
1,2,4-Trichlorobenzene	20.83	1.0	20	0	104	69 - 130				
1,2,4-Trimethylbenzene	22.7	1.0	20	0	114	76 - 124				
1,2-Dibromo-3-chloropropane	20.41	1.0	20	0	102	62 - 128				
1,2-Dibromoethane	21.38	1.0	20	0	107	77 - 121				
1,2-Dichlorobenzene	22.19	1.0	20	0	111	80 - 119				
1,2-Dichloroethane	20.92	1.0	20	0	105	73 - 128				
1,2-Dichloropropane	21.22	1.0	20	0	106	78 - 122				
1,3,5-Trimethylbenzene	22.97	1.0	20	0	115	75 - 124				
1,3-Dichlorobenzene	22.18	1.0	20	0	111	80 - 119				
1,3-Dichloropropane	21.23	1.0	20	0	106	80 - 119				
1,4-Dichlorobenzene	22.1	1.0	20	0	110	79 - 118				
2,2-Dichloropropane	22.01	1.0	20	0	110	60 - 139				
2-Butanone	38.73	2.0	40	0	96.8	56 - 143				
2-Chlorotoluene	22.11	1.0	20	0	111	79 - 122				
2-Hexanone	43.79	2.0	40	0	109	57 - 139				
4-Chlorotoluene	22.45	1.0	20	0	112	78 - 122				
4-Isopropyltoluene	23.96	1.0	20	0	120	77 - 127				
4-Methyl-2-pentanone	45.49	2.0	40	0	114	67 - 130				
Acetone	30.03	2.0	40	0	75.1	39 - 160				
Benzene	22.74	1.0	20	1.294	107	79 - 120				
Bromobenzene	22.09	1.0	20	0	110	80 - 120				
Bromochloromethane	19.09	1.0	20	0	95.4	78 - 123				
Bromodichloromethane	21.29	1.0	20	0	106	79 - 125				
Bromoform	20.5	1.0	20	0	103	66 - 130				
Bromomethane	18.02	1.0	20	0	90.1	53 - 141				

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

QC BATCH REPORT

Batch ID: R415491 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS22080933-01MS** Units: **ug/L** Analysis Date: **19-Aug-2022 16:12**
Client ID: **18CPTMW03SW_081522** Run ID: **VOA6_415491** SeqNo: **6810913** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	43.58	2.0	40	0	109	64 - 133				
Carbon tetrachloride	22.39	1.0	20	0	112	72 - 136				
Chlorobenzene	22.1	1.0	20	0	110	82 - 118				
Chloroethane	17.81	1.0	20	0	89.1	60 - 138				
Chloroform	20.54	1.0	20	0	103	79 - 124				
Chloromethane	20.78	1.0	20	0	104	50 - 139				
cis-1,2-Dichloroethene	58.87	1.0	20	37.49	107	78 - 123				
cis-1,3-Dichloropropene	21	1.0	20	0	105	75 - 124				
Dibromochloromethane	20.98	1.0	20	0	105	74 - 126				
Dibromomethane	20.77	1.0	20	0	104	79 - 123				
Dichlorodifluoromethane	18.96	1.0	20	0	94.8	32 - 152				
Ethylbenzene	23.04	1.0	20	0	115	79 - 121				
Hexachlorobutadiene	22.29	1.0	20	0	111	66 - 134				
Isopropylbenzene	23.39	1.0	20	0	117	72 - 131				
m,p-Xylene	46.34	2.0	40	0	116	80 - 121				
Methylene chloride	19.96	2.0	20	0	99.8	74 - 124				
Naphthalene	18.14	1.0	20	0	90.7	61 - 128				
n-Butylbenzene	24.55	1.0	20	0	123	75 - 128				
n-Propylbenzene	24.32	1.0	20	0	122	76 - 126				
o-Xylene	22.39	1.0	20	0	112	78 - 122				
sec-Butylbenzene	24.02	1.0	20	0	120	77 - 126				
Styrene	22.18	1.0	20	0	111	78 - 123				
tert-Butylbenzene	23.9	1.0	20	0	120	78 - 124				
Tetrachloroethene	22.92	1.0	20	0	115	74 - 129				
Toluene	22.43	1.0	20	0	112	80 - 121				
trans-1,2-Dichloroethene	22.29	1.0	20	1.039	106	75 - 124				
trans-1,3-Dichloropropene	21.03	1.0	20	0	105	73 - 127				
Trichloroethene	25.37	1.0	20	3.403	110	79 - 123				
Trichlorofluoromethane	20.83	1.0	20	0	104	65 - 141				
Vinyl chloride	19.5	1.0	20	0	97.5	58 - 137				
Surr: 1,2-Dichloroethane-d4	*48.03*	*1.0*	*50*	*0*	*96.1*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*51.19*	*1.0*	*50*	*0*	*102*	*85 - 114*				
Surr: Dibromofluoromethane	*48.12*	*1.0*	*50*	*0*	*96.2*	*80 - 119*				
Surr: Toluene-d8	*52.31*	*1.0*	*50*	*0*	*105*	*89 - 112*				

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

QC BATCH REPORT

Batch ID: R415491 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS22080933-01MSD** Units: **ug/L** Analysis Date: **19-Aug-2022 16:33**
Client ID: **18CPTMW03SW_081522** Run ID: **VOA6_415491** SeqNo: **6810914** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	20.43	1.0	20	0	102	78 - 124	21.69	5.98	20	
1,1,1-Trichloroethane	20.83	1.0	20	0	104	74 - 131	21.65	3.86	20	
1,1,2,2-Tetrachloroethane	20.79	1.0	20	0	104	71 - 121	21.38	2.79	20	
1,1,2-Trichloroethane	20.45	1.0	20	0	102	80 - 119	21.59	5.39	20	
1,1-Dichloroethane	20.14	1.0	20	0	101	77 - 125	20.65	2.53	20	
1,1-Dichloroethene	19.27	1.0	20	0	96.4	71 - 131	20.32	5.27	20	
1,1-Dichloropropene	21.8	1.0	20	0	109	78 - 125	22.58	3.5	20	
1,2,3-Trichlorobenzene	23.19	1.0	20	0	116	69 - 129	19.23	18.7	20	
1,2,3-Trichloropropane	21.59	1.0	20	0	108	73 - 122	21.81	1.03	20	
1,2,4-Trichlorobenzene	22.26	1.0	20	0	111	69 - 130	20.83	6.66	20	
1,2,4-Trimethylbenzene	21.53	1.0	20	0	108	76 - 124	22.7	5.29	20	
1,2-Dibromo-3-chloropropane	22.81	1.0	20	0	114	62 - 128	20.41	11.1	20	
1,2-Dibromoethane	20.16	1.0	20	0	101	77 - 121	21.38	5.91	20	
1,2-Dichlorobenzene	21.27	1.0	20	0	106	80 - 119	22.19	4.24	20	
1,2-Dichloroethane	21.24	1.0	20	0	106	73 - 128	20.92	1.53	20	
1,2-Dichloropropane	20.26	1.0	20	0	101	78 - 122	21.22	4.61	20	
1,3,5-Trimethylbenzene	21.85	1.0	20	0	109	75 - 124	22.97	5	20	
1,3-Dichlorobenzene	21.28	1.0	20	0	106	80 - 119	22.18	4.14	20	
1,3-Dichloropropane	20.19	1.0	20	0	101	80 - 119	21.23	4.99	20	
1,4-Dichlorobenzene	21.05	1.0	20	0	105	79 - 118	22.1	4.84	20	
2,2-Dichloropropane	21.14	1.0	20	0	106	60 - 139	22.01	4.02	20	
2-Butanone	36.06	2.0	40	0	90.2	56 - 143	38.73	7.13	20	
2-Chlorotoluene	20.63	1.0	20	0	103	79 - 122	22.11	6.96	20	
2-Hexanone	41.8	2.0	40	0	104	57 - 139	43.79	4.65	20	
4-Chlorotoluene	21.06	1.0	20	0	105	78 - 122	22.45	6.38	20	
4-Isopropyltoluene	22.48	1.0	20	0	112	77 - 127	23.96	6.39	20	
4-Methyl-2-pentanone	43.05	2.0	40	0	108	67 - 130	45.49	5.5	20	
Acetone	30.48	2.0	40	0	76.2	39 - 160	30.03	1.48	20	
Benzene	21.59	1.0	20	1.294	101	79 - 120	22.74	5.21	20	
Bromobenzene	20.64	1.0	20	0	103	80 - 120	22.09	6.75	20	
Bromochloromethane	18.9	1.0	20	0	94.5	78 - 123	19.09	1.01	20	
Bromodichloromethane	20.31	1.0	20	0	102	79 - 125	21.29	4.71	20	
Bromoform	19.89	1.0	20	0	99.4	66 - 130	20.5	3.03	20	
Bromomethane	14.32	1.0	20	0	71.6	53 - 141	18.02	22.9	20	R

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

QC BATCH REPORT

Batch ID: R415491 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS22080933-01MSD** Units: **ug/L** Analysis Date: **19-Aug-2022 16:33**
Client ID: **18CPTMW03SW_081522** Run ID: **VOA6_415491** SeqNo: **6810914** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	41.29	2.0	40	0	103	64 - 133	43.58	5.4	20	
Carbon tetrachloride	21.31	1.0	20	0	107	72 - 136	22.39	4.92	20	
Chlorobenzene	21.16	1.0	20	0	106	82 - 118	22.1	4.31	20	
Chloroethane	16.17	1.0	20	0	80.8	60 - 138	17.81	9.69	20	
Chloroform	19.77	1.0	20	0	98.9	79 - 124	20.54	3.82	20	
Chloromethane	19.04	1.0	20	0	95.2	50 - 139	20.78	8.74	20	
cis-1,2-Dichloroethene	56.53	1.0	20	37.49	95.2	78 - 123	58.87	4.07	20	
cis-1,3-Dichloropropene	20.09	1.0	20	0	100	75 - 124	21	4.42	20	
Dibromochloromethane	20.3	1.0	20	0	102	74 - 126	20.98	3.26	20	
Dibromomethane	19.97	1.0	20	0	99.8	79 - 123	20.77	3.91	20	
Dichlorodifluoromethane	17.71	1.0	20	0	88.5	32 - 152	18.96	6.81	20	
Ethylbenzene	21.77	1.0	20	0	109	79 - 121	23.04	5.66	20	
Hexachlorobutadiene	22.06	1.0	20	0	110	66 - 134	22.29	1.05	20	
Isopropylbenzene	22.38	1.0	20	0	112	72 - 131	23.39	4.45	20	
m,p-Xylene	43.79	2.0	40	0	109	80 - 121	46.34	5.67	20	
Methylene chloride	19.46	2.0	20	0	97.3	74 - 124	19.96	2.54	20	
Naphthalene	22.27	1.0	20	0	111	61 - 128	18.14	20.4	20	R
n-Butylbenzene	23.55	1.0	20	0	118	75 - 128	24.55	4.16	20	
n-Propylbenzene	22.85	1.0	20	0	114	76 - 126	24.32	6.26	20	
o-Xylene	21.14	1.0	20	0	106	78 - 122	22.39	5.75	20	
sec-Butylbenzene	22.52	1.0	20	0	113	77 - 126	24.02	6.46	20	
Styrene	21.11	1.0	20	0	106	78 - 123	22.18	4.97	20	
tert-Butylbenzene	22.29	1.0	20	0	111	78 - 124	23.9	6.99	20	
Tetrachloroethene	21.13	1.0	20	0	106	74 - 129	22.92	8.13	20	
Toluene	21.24	1.0	20	0	106	80 - 121	22.43	5.45	20	
trans-1,2-Dichloroethene	21.31	1.0	20	1.039	101	75 - 124	22.29	4.47	20	
trans-1,3-Dichloropropene	20.2	1.0	20	0	101	73 - 127	21.03	4	20	
Trichloroethene	24.28	1.0	20	3.403	104	79 - 123	25.37	4.41	20	
Trichlorofluoromethane	19.99	1.0	20	0	100.0	65 - 141	20.83	4.12	20	
Vinyl chloride	18.05	1.0	20	0	90.3	58 - 137	19.5	7.73	20	
Surr: 1,2-Dichloroethane-d4	*49.38*	*1.0*	*50*	*0*	*98.8*	*81 - 118*	*48.03*	*2.78*	*20*	
Surr: 4-Bromofluorobenzene	*50.88*	*1.0*	*50*	*0*	*102*	*85 - 114*	*51.19*	*0.621*	*20*	
Surr: Dibromofluoromethane	*48.3*	*1.0*	*50*	*0*	*96.6*	*80 - 119*	*48.12*	*0.362*	*20*	
Surr: Toluene-d8	*52.15*	*1.0*	*50*	*0*	*104*	*89 - 112*	*52.31*	*0.309*	*20*	

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

QC BATCH REPORT

Batch ID: R415491 (0)	Instrument: VOA6	Method: VOLATILES ORGANICS BY METHOD 8260C

The following samples were analyzed in this batch:

HS22080933-01	HS22080933-02	HS22080933-03	HS22080933-04
HS22080933-05	HS22080933-06	HS22080933-07	HS22080933-08
HS22080933-09			

ALS Houston, US Date: 02-Sep-22

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: **HS22080933**

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

ALS Houston, US Date: 02-Sep-22

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	22-041-0	27-Mar-2023
California	2919 2022-2023	30-Apr-2023
Dept of Defense	L21-682	31-Dec-2023
Florida	E87611-36	30-Jun-2023
Illinois	2000322022-9	09-May-2023
Kansas	E-10352; 2022-2023	31-Jul-2023
Kentucky	123043, 2022-2023	30-Apr-2023
Louisiana	03087, 2022-2023	30-Jun-2023
Maryland	343, 2022-2023	30-Jun-2023
North Carolina	624-2022	31-Dec-2022
North Dakota	R-193 2022-2023	30-Apr-2023
Oklahoma	2022-141	31-Aug-2023
Texas	T104704231-22-29	30-Apr-2023
Utah	TX026932022-13	31-Jul-2023

ALS Houston, US Date: 02-Sep-22

Sample Receipt Checklist

Work Order ID: HS22080933 **Date/Time Received:** 17-Aug-2022 09:25

Client Name: Bhate Environmental **Received by:** Paresh M. Giga

Completed By:	/S/ Nilesh D. Ranchod	17-Aug-2022 17:09	**Reviewed by:**	/S/ Ragen Giga	22-Aug-2022 10:47
	eSignature	Date/Time		eSignature	Date/Time

Matrices: **Water** 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 IDs:Client
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):	1.9C/2.4 C UC/C	IR 31
Cooler(s)/Kit(s):	49173	
Date/Time sample(s) sent to storage:	08/17/2022 17:10	

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:

01140977

bhate ENVIRONMENTAL CONSTRUCTION ENERGY

1608 13th Avenue South, Suite 300
Birmingham Alabama 35205
Tel: 205-918-4000
Fax: 205-918-4050

Chain of Custody and Analytical Request

Page: _____ of _____

Project/Phase No: NWO1312.0150

COC Number(1): _____

LIMS Number: _____

Facility/Base I.D.: LHAAP

Project/Site Name: LHAAP / Site 18/24

Client Name:

Collected by: Scott Beesinger

Field Sample ID (30 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOC	PERCHLORATE	TOTAL METALS	1,4 - DIOXANE							Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
							Sample Analysis Requested (5)											Quality Assurance Samples (6)			
18CPTmw035w_081522	15 AUG 2022	0735	-	N		WG	6	X	X	X	X										
1824DPTmw05_081522	15 AUG 2022	0820	-	N		WG	5	X	X		X										
120_081522	15 AUG 2022	0905	-	N		WG	5	X	X		X										
mw14_081522	15 AUG 2022	0950		N		WG	6	X	X	X	X										
mw18_081522	15 AUG 2022	1040		N		WG	4	X	X												
18ww25_081522	15 AUG 2022	1125	-	N		WG	6	X	X	X	X										
18CPTmw15_081522	15 AUG 2022	1210	-	N		WG	5	X	X		X										
C06_081522	15 AUG 2022	1300	-	N		WG	5	X	X	X											
TRIPBlank	15 AUG 2022		-	TB		W	2	X													
			-																		
			-																		

COMMENTS: STANDARD TAT

Bhate Environmental Associates, Inc.
LHAAP/Site 18 /24

HS22080933

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Scott Beesinger	8/16/22	1330	1.	8/17/22	09:25
2.			2.		4P173
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: _____ Shipped No.: _____

Method of Shipment: _____

_____ Fed Ex _____ Airbill Number: _____

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

ATTN: SONIA WEST Lab Recipient: Delivery Date/Time:

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

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

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

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

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

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

ALS

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

49173

CUSTODY SEAL

Date 8/16/22 Time: 1330
Name: Scott Beesiner
Company: BHate

Seal Broken By: SMS
Date: 08/17/22

49173 AUG 17 2022



49173

ORIGIN ID:SGRA (903) 930-6193
SCOTT BEESINER
BHATE ENVIRONMENTAL ASSOCIATES
1203-B EAST GRAND AVE. PMB202

MARSHALL, TX 75670
UNITED STATES US

SHIP DATE: 05JUL22
ACTWGT: 1.00 LB MAN
CAD: 0221247/CAFE3512
DIMS: 26x14x14 IN

TO SHIPPING DEPT
ALS LABORATORY GROUP
10450 STANCLIFF RD
SUITE 210
HOUSTON TX 77099

(281) 530-5856
REF: LHAAP 1B 24-BO 66412-CG

RMA:

FedEx Express

FedEx 0221 3789 1995 2430

PRIORITY OVERNIGHT

AB SGRA

77099
TX-US
IAH

August 29, 2022 Service Request No:E2200811

Dane Wacasey
ALS Group USA, Corp.
10450 Stancliff Road
Suite 210
Houston, TX 77099-4338

Laboratory Results for: HS22080933

Dear Dane,

Enclosed are the results of the sample(s) submitted to our laboratory August 18, 2022
For your reference, these analyses have been assigned our service request number **E2200811.**

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.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Corey Grandits
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 HRMS
10450 Stancliff Rd, Suite 210, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

ALS Environmental

Client:	ALS Environmental – US	**Service Request No.:**	E2200811
Project:	HS22080933	**Date Received:**	08/18/22
Sample Matrix:	Water		

CASE NARRATIVE

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

Sample Receipt

Eight samples were received for analysis at ALS Environmental in Houston on 08/18/22.

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:

EQ2200359-02/03: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

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

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

Client: ALS Environmental - US **Service Request:**E2200811
Project: HS22080933

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2200811-001	18CPTMW03SW_081522	8/15/2022	0735
E2200811-002	1824DPTMW05_081522	8/15/2022	0820
E2200811-003	120_081522	8/15/2022	0905
E2200811-004	MW14_081522	8/15/2022	0950
E2200811-005	MW18_081522	8/15/2022	1040
E2200811-006	18WW25_081522	8/15/2022	1125
E2200811-007	18CPTMW15_081522	8/15/2022	1210
E2200811-008	CO6_081522	8/15/2022	1300

Service Request Summary

Folder #: **E2200811**
Client Name: ALS Environmental - US
Project Name: HS22080933
Project Number:

Report To: Dane Wacasey
ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA
Phone Number: 281-575-2190
Cell Number:
Fax Number: 281-530-5887
E-mail: dane.wacasey@alsglobal.com

Project Chemist: Corey Grandits
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 08/18/22
Internal Due Date: 8/31/2022
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS22080933
EDD: BASIC_WQC_CASNo_LOD

8 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-AirArch 1
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2200811-001	18CPTMW03SW_081522	Water	08/15/22 0735	**IV**
E2200811-002	1824DPTMW05_081522	Water	08/15/22 0820	**IV**
E2200811-003	120_081522	Water	08/15/22 0905	**IV**
E2200811-004	MW14_081522	Water	08/15/22 0950	**IV**
E2200811-005	MW18_081522	Water	08/15/22 1040	**IV**
E2200811-006	18WW25_081522	Water	08/15/22 1125	**IV**
E2200811-007	18CPTMW15_081522	Water	08/15/22 1210	**IV**
E2200811-008	CO6_081522	Water	08/15/22 1300	**IV**

Service Request Summary

Folder #: **E2200811**
Client Name: ALS Environmental - US
Project Name: HS22080933
Project Number:

Report To: Dane Wacasey
ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA
Phone Number: 281-575-2190
Cell Number:
Fax Number: 281-530-5887
E-mail: dane.wacasey@alsglobal.com

Project Chemist: Corey Grandits
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 08/18/22
Internal Due Date: 8/31/2022
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS22080933
EDD: BASIC_WQC_CASNo_LOD

8 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-AirArch 1
Pressure Gas:

Test Comments:

Group	Test/Method	Samples	Comments
Semivoa GCMS	ClO4 DOD/6850	8	IV Due 9/8

Data Qualifiers

Lab Standard

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

Data Qualifiers

Lab Standard

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

ALS Laboratory Group

Acronyms

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

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

ALS Environmental

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793	5/27/2023
Arkansas Department of Environmental Quality	22-041-0	3/27/2023
California Department of Health Services	2919-2023	4/30/2023
Department of Defense	L22-90	3/31/2024
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Hawaii Department of Health	2022	4/30/2023
Illinois Environmental Protection Agency	2000322022-9	5/9/2023
Kansas Department of Health and Environment	E-10352 2022-2023	7/31/2023
Louisiana Department of Environmental Quality	03087-2022	6/30/2023
Louisiana Department of Health and Hospitals	LA028	12/31/2022
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343	6/30/2023
Michigan Depratment of Environmental Quality	9971-2022	4/30/2023
Minnesota Department of Health	2228443	12/31/2022
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2023
Nevada Department of Conservation and Natural Resources	TX026932023-1	7/31/2023
New Hampshire Environmental Laboratory Accreditation Program	209422	4/24/2023
New Jersey Department of Environmental Protection	TX008-2023	6/30/2023
New York Department of Health	11707	3/31/2023
Oklahoma Department of Environmental Quality	2021-080	8/31/2022
Oregon Environmental Laboratory Accreditation Program	TX200002	5/15/2023
Pennsylvania Department of Environmental Protection	68-03441-016	6/30/2023
Perry Johnson Laboratory Accreditation	L22-91	3/31/2024
Tennessee Department of Environment and Concervation	04016-2022	4/30/2023
Texas Commision on Environmental Quality	T104704231-22-29	4/30/2023
United States Department of Agriculture	P330-19-00299	10/10/2022
Utah Department of Health Environmental Laboratory Certification	TX026932022-13	7/31/2023
Washington Department of Health	C819-2022	11/14/2022

01140989

Chain of Custody

ALS Environmental - Houston HRMS
10450 Stancliff Rd, Suite 210, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

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

Subcontract Chain of Custody

SAMPLING STATE: Texas **COC ID:** 19430

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Dane J. Wacasey
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	Dane.Wacasey@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:	HS22080933
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS22080933-01**	**18CPTMW035W_081522**	**Groundwater**	**15 Aug 2022 07:35**
	Provide Level II and Level IV reports in separate pdf			31 Aug 2022
2.	**HS22080933-02**	**1824DPTMW05_081522**	**Groundwater**	**15 Aug 2022 08:20**
	Provide Level II and Level IV reports in separate pdf			31 Aug 2022
3.	**HS22080933-03**	**120_081522**	**Groundwater**	**15 Aug 2022 09:05**
	Provide Level II and Level IV reports in separate pdf			31 Aug 2022
4.	**HS22080933-04**	**MW14_081522**	**Groundwater**	**15 Aug 2022 09:50**
	Provide Level II and Level IV reports in separate pdf			31 Aug 2022
5.	**HS22080933-05**	**MW18_081522**	**Groundwater**	**15 Aug 2022 10:40**
	Provide Level II and Level IV reports in separate pdf			31 Aug 2022
6.	**HS22080933-06**	**18WW25_081522**	**Groundwater**	**15 Aug 2022 11:25**
	Provide Level II and Level IV reports in separate pdf			31 Aug 2022
7.	**HS22080933-07**	**18CPTMW15_081522**	**Groundwater**	**15 Aug 2022 12:10**
	Provide Level II and Level IV reports in separate pdf			31 Aug 2022
8.	**HS22080933-08**	**CO6_081522**	**Groundwater**	**15 Aug 2022 13:00**
	Provide Level II and Level IV reports in separate pdf			31 Aug 2022

Subcontract Chain of Custody

SAMPLING STATE: Texas **COC ID:** 19430

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

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: 8/18/22 1100

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

01140992

Cooler Receipt Form

ALS Environmental

Project Chemist: CH

Client/Project: ALS-H

Thermometer ID: IR4

Date/Time Received: 8/18/22 Initials: CH Date/Time Logged in: 8/18/22 Initials: CH

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

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

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

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

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

Cooler Tracking Number	COC ID	Date Opened	Time Opened	Opened By	Temp. °C	Temp Blank?
NA		8/18/22	1100	CH	0.9°	☑
						☐
						☐
						☐

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

Notes, Discrepancies, & Resolutions:

Service request Label:

10450 Stancliff Rd., Suite 210
Houston, TX 77099
T: +1 713 266 1599
F: +1 713 266 1599
www.alsglobal.com

SAMPLE ACCEPTANCE POLICY

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

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

- ✓ Intact on outside of cooler, signed and dated

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

The following is required on each COC:

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

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

Sample Integrity (mandatory):

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

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

Temperature Requirement (varies by sample matrix):

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

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

Preparation Information Benchsheets

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston, TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

Preparation Information Benchsheet

Prep Run#: 404960 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/GRIVERA **Prep Method:** Method **Prep Date/Time:** 8/22/22 12:15

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2200793-001	1824DPTMW01_081222	.01	6850/ClO4 DOD			Ground Water	10mL	
2	E2200793-002	18CPTMW18_081222	.01	6850/ClO4 DOD			Ground Water	10mL	
3	E2200793-003	1824DPTMW03_081222	.01	6850/ClO4 DOD			Ground Water	10mL	
4	E2200793-004	1824DPTMW02_081222	.01	6850/ClO4 DOD			Ground Water	10mL	
5	E2200793-005	1824DPTMW02_081222_a	.01	6850/ClO4 DOD			Ground Water	10mL	
6	E2200793-006	18WW17_081222	.01	6850/ClO4 DOD			Ground Water	10mL	
7	E2200811-001	18CPTMW03SW_081522	.01	6850/ClO4 DOD			Water	10mL	
8	E2200811-002	1824DPTMW05_081522	.01	6850/ClO4 DOD			Water	10mL	
9	E2200811-003	120_081522	.01	6850/ClO4 DOD			Water	10mL	
10	E2200811-004	MW14_081522	.01	6850/ClO4 DOD			Water	10mL	
11	E2200811-005	MW18_081522	.01	6850/ClO4 DOD			Water	10mL	
12	E2200811-006	18WW25_081522	.01	6850/ClO4 DOD			Water	10mL	
13	E2200811-007	18CPTMW15_081522	.01	6850/ClO4 DOD			Water	10mL	
14	E2200811-008	CO6_081522	.01	6850/ClO4 DOD			Water	10mL	
15	E2200815-003	SW-2	.01	6850/ClO4 DOD			Water	10mL	
16	E2200816-003	SW-1	.01	6850/ClO4 DOD			Water	10mL	
17	E2200816-009	EB-1	.01	6850/ClO4 DOD			Water	10mL	
18	EQ2200359-01	MB		6850/ClO4 DOD			Liquid	10mL	
19	EQ2200359-02	LCS		6850/ClO4 DOD			Liquid	10mL	
20	EQ2200359-03	DLCS		6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock1 Inventory ID 222798 Logbook Ref: Perchlorate (1st Source) Expires On: 10/29/2022

EQ2200359-02 1.00µL EQ2200359-03 1.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 223118 Logbook Ref: Perchlorate Internal Standard Expires On: 10/31/2022

E2200793-001	100.00µL	E2200793-002	100.00µL	E2200793-003	100.00µL	E2200793-004	100.00µL	E2200793-005	100.00µL	E2200793-006	100.00µL
E2200811-001	100.00µL	E2200811-002	100.00µL	E2200811-003	100.00µL	E2200811-004	100.00µL	E2200811-005	100.00µL	E2200811-006	100.00µL
E2200811-007	100.00µL	E2200811-008	100.00µL	E2200815-003	100.00µL	E2200816-003	100.00µL	E2200816-009	100.00µL	EQ2200359-01	100.00µL
EQ2200359-02	100.00µL	EQ2200359-03	100.00µL								

Preparation Materials

Water HPLC Grade	5/12/2022 Water (223056)	6850 Amber Glass screw vial	2mL Screw Top Vial (221894)	6850 0.45um syringe filters	6850 Syringe Filters (224414)
6850 Luer-Lok Syringes	Luer-Lok Syringes (221305)	6850 Pipette Tips 50-1000 uL	6850 Pipette Tips (221929)		

Preparation Information Benchsheet

Prep Run#: 404960 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/GRIVERA **Prep Method:** Method **Prep Date/Time:** 8/22/22 12:15

Preparation Steps

Step: Preparation
Started: 8/22/22 12:15
Finished: 8/22/22 12:55
By: GRIVERA
Comments

Comments: _____

Reviewed By: GR Date: 08/22/22

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston, TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2200811
Project:	HS22080933	**Date Collected:**	8/15/22 0735
Sample Matrix:	Water	**Date Received:**	8/18/22
Sample Name:	18CPTMW03SW_081522	**Units:**	µg/L
Lab Code:	E2200811-001	**Basis:**	NA

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

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.204**		0.100	0.0500	0.0250	1	8/22/22	8/25/22 18:19	404960	775400	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2200811
Project:	HS22080933	**Date Collected:**	8/15/22 0820
Sample Matrix:	Water	**Date Received:**	8/18/22
Sample Name:	1824DPTMW05_081522	**Units:**	µg/L
Lab Code:	E2200811-002	**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	**210000**		1000	500	250	10000	8/22/22	8/25/22 19:37	404960	775400	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2200811
Project:	HS22080933	**Date Collected:**	8/15/22 0905
Sample Matrix:	Water	**Date Received:**	8/18/22
Sample Name:	120_081522	**Units:**	µg/L
Lab Code:	E2200811-003	**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	**5770**		50.0	25.0	12.5	500	8/22/22	8/25/22 19:45	404960	775400	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2200811
Project:	HS22080933	**Date Collected:**	8/15/22 0950
Sample Matrix:	Water	**Date Received:**	8/18/22
Sample Name:	MW14_081522	**Units:**	µg/L
Lab Code:	E2200811-004	**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	**106000**		1000	500	250	10000	8/22/22	8/25/22 19:54	404960	775400	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2200811
Project:	HS22080933	**Date Collected:**	8/15/22 1040
Sample Matrix:	Water	**Date Received:**	8/18/22
Sample Name:	MW18_081522	**Units:**	µg/L
Lab Code:	E2200811-005	**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	**0.429**		0.100	0.0500	0.0250	1	8/22/22	8/25/22 18:27	404960	775400	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2200811
Project:	HS22080933	**Date Collected:**	8/15/22 1125
Sample Matrix:	Water	**Date Received:**	8/18/22
Sample Name:	18WW25_081522	**Units:**	µg/L
Lab Code:	E2200811-006	**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	**0.351**		0.100	0.0500	0.0250	1	8/22/22	8/25/22 18:36	404960	775400	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2200811
Project:	HS22080933	**Date Collected:**	8/15/22 1210
Sample Matrix:	Water	**Date Received:**	8/18/22
Sample Name:	18CPTMW15_081522	**Units:**	µg/L
Lab Code:	E2200811-007	**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	**0.0750**	J	0.100	0.0500	0.0250	1	8/22/22	8/25/22 18:45	404960	775400	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2200811
Project:	HS22080933	**Date Collected:**	8/15/22 1300
Sample Matrix:	Water	**Date Received:**	8/18/22
Sample Name:	CO6_081522	**Units:**	µg/L
Lab Code:	E2200811-008	**Basis:**	NA

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

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.0639**	J	0.100	0.0500	0.0250	1	8/22/22	8/25/22 18:53	404960	775400	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2200811
Project:	HS22080933	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2200359-01	**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	8/22/22	8/25/22 12:40	404960	775400	

Accuracy & Precision

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS22080933
Sample Matrix: Water

Service Request: E2200811
Date Analyzed: 8/25/22

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

Analytical Method: 6850
Prep Method: Method

Units: µg/L
Basis: NA

Extraction Lot: 404960

	Lab Control Sample EQ2200359-02			Duplicate Lab Control Sample EQ2200359-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.107	0.100	107	0.0934	0.100	93	84 - 119	13	15

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

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

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2200811
Project:	HS22080933	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2200359-02	**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	**0.107**		0.100	0.0500	0.0250	1	8/22/22	8/25/22 12:48	404960	775400	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2200811
Project:	HS22080933	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2200359-03	**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	**0.0934**	J	0.100	0.0500	0.0250	1	8/22/22	8/25/22 12:57	404960	775400	

ALS Environmental
ALS Group USA, Corp
1317 South 13th Avenue
Kelso, WA 98626
T : +1 360 577 7222
F : +1 360 636 1068
www.alsglobal.com

September 01, 2022 **Analytical Report for Service Request No:** K2210030

Dane Wacasey
ALS Group USA, Corp.
10450 Stancliff Road
Suite 210
Houston, TX 77099-4338

RE: HS22080933

Dear Dane,

Enclosed are the results of the sample(s) submitted to our laboratory August 31, 2022
For your reference, these analyses have been assigned our service request number **K2210030.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3260. You may also contact me via email at Luke.Rahn@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Luke Rahn
Project Manager

ALS Environmental
ALS Group USA, Corp
1317 South 13th Avenue
Kelso, WA 98626
T : +1 360 577 7222
F : +1 360 636 1068
www.alsglobal.com

Table of Contents

Acronyms
Qualifiers
State Certifications, Accreditations, And Licenses
Case Narrative
Chain of Custody
Metals
Raw Data
    Metals

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
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.
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.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjlabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water-	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.
Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Case Narrative

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

1317 South 13th Ave, Kelso, WA 98626 | 1-360-577-7222 | www.alsglobal.com

Client: ALS Environmental - US
Project: HS22080933
Sample Matrix: Ground Water

Service Request: K2210030
Date Received: 08/31/2022

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Four ground water samples were received for analysis at ALS Environmental on 08/31/2022. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

Approved by _____ Date 09/01/2022

Chain of Custody

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

K2210080

K2209457

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:** **19702**

SUBCONTRACT TO:

ALS Environmental Kelso
1317 S. 13th Avenue
Kelso, WA 98626

Phone: +1 360 501 3312

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Dane J. Wacasey
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	Dane.Wacasey@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:	HS22080933
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS22080933-01**	**18CPTMW035W_081522**	**Groundwater**	**15 Aug 2022 07:35**
	Mercury by 7470, DOD Tier II & IV;			31 Aug 2022
2.	**HS22080933-04**	**MW14_081522**	**Groundwater**	**15 Aug 2022 09:50**
	Mercury by 7470, DOD Tier II & IV;			31 Aug 2022
3.	**HS22080933-06**	**18WW25_081522**	**Groundwater**	**15 Aug 2022 11:25**
	Mercury by 7470, DOD Tier II & IV;			31 Aug 2022
4.	**HS22080933-08**	**CO6_081522**	**Groundwater**	**15 Aug 2022 13:00**
	Mercury by 7470, DOD Tier II & IV;			31 Aug 2022

Comments: Please analyze for 7470 Hg, DoD QSM 5.3 reporting, Excel EDD DL/LOD/LOQ; Tier II and Tier IV. Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: 8/30/22 1800

Received By: _____ Date/Time: 8/31/22 1030

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

K2210030 PM LR

Cooler Receipt and Preservation Form

Client AIS Houston Service Request K22 0448

Received: 8/31/22 Opened: 8/31/22 By: JH Unloaded: 8/31/22 By: JH

1. Samples were received via? *USPS* (Fed Ex) *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) (Cooler) *Box* *Envelope* *Other*_____ *NA*
3. Were custody seals on coolers? NA (N) If yes, how many and where? Front
   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp indicate with "X"	PM Notified if out of temp	Tracking Number NA	Filed
	21.9	TDel				578919974960	

4. Was a Temperature Blank present in cooler? NA Y (N) If yes, notate the temperature in the appropriate column above:
   If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
5. Were samples received within the method specified temperature ranges? NA Y (N)
   If no, were they received on ice and same day as collected? If not, notate the cooler # below and notify the PM. NA (Y) N

If applicable, tissue samples were received: *Frozen* *Partially Thawed* *Thawed*

6. Packing material: *Inserts* (Baggies) (Bubble Wrap) *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* No Cooling
7. Were custody papers properly filled out (ink, signed, etc.)? NA (Y) N
8. Were samples received in good condition (unbroken) NA (Y) N
9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA (Y) N
10. Did all sample labels and tags agree with custody papers? NA (Y) N
11. Were appropriate bottles/containers and volumes received for the tests indicated? NA (Y) N
12. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA (Y) N
13. Were VOA vials received without headspace? *Indicate in the table below.* (NA) Y N
14. Was C12/Res negative? (NA) Y N
15. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? (NA) Y N Under filled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

RUSH

Sample ID	Bottle Count Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: Temp Not an issue. Samples for Metals analysis.

1/13/22

Page ____ *of* ____

Metals

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	K2210030
Project:	HS22080933	**Date Collected:**	08/15/22 07:35
Sample Matrix:	Ground Water	**Date Received:**	08/31/22 10:30
Sample Name:	19CPTMW035W_081522	**Basis:**	NA
Lab Code:	K2210030-001		

Total Metals

Analyte Name	Analysis Method	Result	Units	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	7470A	ND U	ug/L	0.20	0.05	0.02	1	09/01/22 12:21	08/31/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	K2210030
Project:	HS22080933	**Date Collected:**	08/15/22 09:50
Sample Matrix:	Ground Water	**Date Received:**	08/31/22 10:30
Sample Name:	MW14_081522	**Basis:**	NA
Lab Code:	K2210030-002		

Total Metals

Analyte Name	Analysis Method	Result	Units	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	7470A	ND U	ug/L	0.20	0.05	0.02	1	09/01/22 12:22	08/31/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	K2210030
Project:	HS22080933	**Date Collected:**	08/15/22 11:25
Sample Matrix:	Ground Water	**Date Received:**	08/31/22 10:30
Sample Name:	18WW25_081522	**Basis:**	NA
Lab Code:	K2210030-003		

Total Metals

Analyte Name	Analysis Method	Result	Units	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	7470A	ND U	ug/L	0.20	0.05	0.02	1	09/01/22 12:27	08/31/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	K2210030
Project:	HS22080933	**Date Collected:**	08/15/22 13:00
Sample Matrix:	Ground Water	**Date Received:**	08/31/22 10:30
Sample Name:	CO6_081522	**Basis:**	NA
Lab Code:	K2210030-004		

Total Metals

Analyte Name	Analysis Method	Result	Units	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	7470A	ND U	ug/L	0.20	0.05	0.02	1	09/01/22 12:29	08/31/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	K2210030
Project:	HS22080933	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	KQ2214876-01		

Total Metals

Analyte Name	Analysis Method	Result	Units	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	7470A	ND U	ug/L	0.20	0.05	0.02	1	09/01/22 12:08	08/31/22	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS22080933
Sample Matrix: Ground Water

Service Request: K2210030
Date Analyzed: 09/01/22

Lab Control Sample Summary
Total Metals

Units:ug/L
Basis:NA

Lab Control Sample
KQ2214876-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Mercury	7470A	4.69	5.00	94	82-119

ALS Group USA, Corp.
dba ALS Environmental

Prep Summary Report

Client: ALS Environmental - US **Service Request:** K2210030
Project: HS22080933
Sample Matrix: Ground Water

Metals

Prep Method: Method **Extraction Lot:** 405699
Analytical Method: 7470A **Extraction Date:** 08/31/22 18:54

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
19CPTMW035W_081522	K2210030-001	8/15/22	8/31/22	10.0000 mL	10 mL	
MW14_081522	K2210030-002	8/15/22	8/31/22	10.0000 mL	10 mL	
18WW25_081522	K2210030-003	8/15/22	8/31/22	10.0000 mL	10 mL	
CO6_081522	K2210030-004	8/15/22	8/31/22	10.0000 mL	10 mL	
Method Blank	KQ2214876-01MB	NA	NA	10.0000 mL	10 mL	
Lab Control Sample	KQ2214876-02LCS	NA	NA	10.0000 mL	10 mL	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US **Service Request:** K2210030
Project: HS22080933

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Concentration Units: ug/L

Sample ID / Analyte	Method	Analysis Batch:	Result	True Value	% Rec	% Rec. Limits
ICV 09/01/22 12:00						
Mercury	7470A	776149	4.99	5.00	100	90-110
CCV 09/01/22 12:05						
Mercury	7470A	776149	5.05	5.00	101	90-110
CCV 09/01/22 12:24						
Mercury	7470A	776149	5.03	5.00	101	90-110
CCV 09/01/22 12:43						
Mercury	7470A	776149	5.03	5.00	101	90-110
CCV 09/01/22 13:05						
Mercury	7470A	776149	5.05	5.00	101	90-110

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US **Service Request:** K2210030
Project: HS22080933

INITIAL AND CONTINUING CALIBRATION BLANKS

Concentration Units: ug/L

Sample ID / Analyte	Method	Analysis Batch:	Result	C
ICB 09/01/22 12:01				
Mercury	7470A	776149	-0.0270	J
CCB 09/01/22 12:06				
Mercury	7470A	776149	-0.0210	J
CCB 09/01/22 12:26				
Mercury	7470A	776149	-0.0210	J
CCB 09/01/22 12:45				
Mercury	7470A	776149	-0.0200	J
CCB 09/01/22 13:06				
Mercury	7470A	776149	-0.0220	J

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US **Service Request:** K2210030
Project: HS22080933

LOW LEVEL INITIAL AND LOW LEVEL CONTINUING CALIBRATION VERIFICATION

Concentration Units: ug/L

Sample ID / Analyte	Method	Analysis Batch:	Result	True Value	% Rec	% Rec. Limits	Analysis Date
LLICV							
Mercury	7470A	776149	0.20	0.2	99	50-150	09/01/22 12:03

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US **Service Request:** K2210030
Project: HS22080933/

Detection Limits

Instrument: K-CVAA-03 **Matrix:** Ground Water

Analyte	Wavelength (nm)	Units	LOQ	LOD	MDL
Mercury	253	ug/L	0.2	0.05	0.02

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US **Service Request:** K2210030
Project: HS22080933/

Analysis Run Log

Instrument ID: **K-CVAA-03** **Analytical BatchID:** **776149**

Sample	Dilution Factor	Date/Time	Hg
ZZZZZZ	1	09/01/22 11:50	
ZZZZZZ	1	09/01/22 11:51	
ZZZZZZ	1	09/01/22 11:53	
ZZZZZZ	1	09/01/22 11:55	
ZZZZZZ	1	09/01/22 11:56	
ZZZZZZ	1	09/01/22 11:58	
ICV1	1	09/01/22 12:00	X
ICB1	1	09/01/22 12:01	X
LLICV1	1	09/01/22 12:03	X
CCV1	1	09/01/22 12:05	X
CCB1	1	09/01/22 12:06	X
KQ2214876-01MB	1	09/01/22 12:08	X
KQ2214876-02LCS	1	09/01/22 12:09	X
ZZZZZZ	1	09/01/22 12:11	
ZZZZZZ	1	09/01/22 12:13	
ZZZZZZ	1	09/01/22 12:14	
ZZZZZZ	1	09/01/22 12:16	
ZZZZZZ	1	09/01/22 12:17	
ZZZZZZ	1	09/01/22 12:19	
K2210030-001	1	09/01/22 12:21	X
K2210030-002	1	09/01/22 12:22	X
CCV2	1	09/01/22 12:24	X
CCB2	1	09/01/22 12:26	X
K2210030-003	1	09/01/22 12:27	X
K2210030-004	1	09/01/22 12:29	X
ZZZZZZ	1	09/01/22 12:30	
ZZZZZZ	1	09/01/22 12:32	
ZZZZZZ	1	09/01/22 12:34	
ZZZZZZ	1	09/01/22 12:35	
ZZZZZZ	1	09/01/22 12:37	
ZZZZZZ	1	09/01/22 12:39	
ZZZZZZ	1	09/01/22 12:40	
ZZZZZZ	1	09/01/22 12:42	
CCV3	1	09/01/22 12:43	X
CCB3	1	09/01/22 12:45	X
ZZZZZZ	1	09/01/22 12:47	
ZZZZZZ	1	09/01/22 12:48	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US **Service Request:** K2210030
Project: HS22080933/

Analysis Run Log

Instrument ID: **K-CVAA-03** **Analytical BatchID:** **776149**

Sample	Dilution Factor	Date/Time	Hg
ZZZZZZ	1	09/01/22 12:50	
ZZZZZZ	1	09/01/22 12:52	
ZZZZZZ	1	09/01/22 12:53	
ZZZZZZ	1	09/01/22 12:55	
ZZZZZZ	1	09/01/22 12:56	
ZZZZZZ	1	09/01/22 12:58	
ZZZZZZ	1	09/01/22 13:00	
CCV4	1	09/01/22 13:05	X
CCB4	1	09/01/22 13:06	X

HS22080933-MSVOA-SW8260

ALS WO# HS22080933

right solutions.
right partner.

Form 1

Organic Analysis Data Sheet

EPA 8260

Workorder

HS22080933

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

09/09/2022

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8260

HS22080933-01

18CPTMW03SW_081522

Collected	Received	Matrix	Units	Basis
08/15/22 07:35	08/17/22 09:25	Groundwater	ug/L	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
1,1,1-Trichloroethane	0.50	U	0.20	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
1,1-Dichloroethane	0.50	U	0.20	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
1,1-Dichloroethene	0.50	U	0.20	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
1,2-Dibromo-3-	1.0	U	0.20	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
1,2-Dibromoethane	0.50	U	0.20	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
1,2-Dichloroethane	0.50	U	0.20	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
2,2-Dichloropropane	0.50	U	0.20	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
2-Butanone	1.0	U	0.50	2.0	2.0	1	08/19/22 14:05	VOA6_415491	X081911
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
2-Hexanone	2.0	U	1.0	2.0	2.0	1	08/19/22 14:05	VOA6_415491	X081911
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
4-Methyl-2-pentanone	2.0	U	0.70	2.0	2.0	1	08/19/22 14:05	VOA6_415491	X081911
Acetone	2.0	U	0.40	2.0	2.0	1	08/19/22 14:05	VOA6_415491	X081911
Benzene	1.3		0.20	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
Bromobenzene	1.0	U	0.40	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
Bromochloromethane	0.50	U	0.20	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8260

HS22080933-01
18CPTMW03SW_081522

Collected	Received	Matrix	Units	Basis
08/15/22 07:35	08/17/22 09:25	Groundwater	ug/L	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File
Bromodichloromethane	0.50	U	0.20	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
Bromoform	1.0	U	0.40	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
Bromomethane	1.0	U	0.40	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
Carbon disulfide	2.0	U	0.60	2.0	2.0	1	08/19/22 14:05	VOA6_415491	X081911
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
Chlorobenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
Chloroethane	1.0	U	0.30	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
Chloroform	0.50	U	0.20	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
Chloromethane	0.50	U	0.20	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
cis-1,2-Dichloroethene	37		0.20	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
cis-1,3-Dichloropropene	0.50	U	0.20	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
Dibromochloromethane	1.0	U	0.30	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
Dibromomethane	0.50	U	0.20	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
Ethylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
Isopropylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
m,p-Xylene	1.0	U	0.50	2.0	2.0	1	08/19/22 14:05	VOA6_415491	X081911
Methylene chloride	2.0	U	0.40	2.0	2.0	1	08/19/22 14:05	VOA6_415491	X081911
Naphthalene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
n-Butylbenzene	1.0	U	0.40	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
n-Propylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
o-Xylene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
Styrene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
Tetrachloroethene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
Toluene	0.50	U	0.20	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
trans-1,2-Dichloroethene	1.0		0.20	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
trans-1,3-Dichloropropene	0.50	U	0.20	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
Trichloroethene	3.4		0.20	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8260

HS22080933-01
18CPTMW03SW_081522

Collected	Received	Matrix	Units	Basis
08/15/22 07:35	08/17/22 09:25	Groundwater	ug/L	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911
Vinyl chloride	0.50	U	0.20	1.0	1.0	1	08/19/22 14:05	VOA6_415491	X081911

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8260

HS22080933-02

1824DPTMW05_081522

Collected	Received	Matrix	Units	Basis
08/15/22 08:20	08/17/22 09:25	Groundwater	ug/L	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File
1,1,1,2-Tetrachloroethane	25	U	7.5	25	25	25	08/19/22 15:08	VOA6_415491	X081914
1,1,1-Trichloroethane	12	U	5.0	25	25	25	08/19/22 15:08	VOA6_415491	X081914
1,1,2,2-Tetrachloroethane	25	U	12	25	25	25	08/19/22 15:08	VOA6_415491	X081914
1,1,2-Trichloroethane	25	U	7.5	25	25	25	08/19/22 15:08	VOA6_415491	X081914
1,1-Dichloroethane	12	U	5.0	25	25	25	08/19/22 15:08	VOA6_415491	X081914
1,1-Dichloroethene	12	U	5.0	25	25	25	08/19/22 15:08	VOA6_415491	X081914
1,1-Dichloropropene	25	U	7.5	25	25	25	08/19/22 15:08	VOA6_415491	X081914
1,2,3-Trichlorobenzene	25	U	10	25	25	25	08/19/22 15:08	VOA6_415491	X081914
1,2,3-Trichloropropane	25	U	12	25	25	25	08/19/22 15:08	VOA6_415491	X081914
1,2,4-Trichlorobenzene	25	U	12	25	25	25	08/19/22 15:08	VOA6_415491	X081914
1,2,4-Trimethylbenzene	25	U	7.5	25	25	25	08/19/22 15:08	VOA6_415491	X081914
1,2-Dibromo-3-	25	U	5.0	25	25	25	08/19/22 15:08	VOA6_415491	X081914
1,2-Dibromoethane	12	U	5.0	25	25	25	08/19/22 15:08	VOA6_415491	X081914
1,2-Dichlorobenzene	25	U	12	25	25	25	08/19/22 15:08	VOA6_415491	X081914
1,2-Dichloroethane	79		5.0	25	25	25	08/19/22 15:08	VOA6_415491	X081914
1,2-Dichloropropane	25	U	12	25	25	25	08/19/22 15:08	VOA6_415491	X081914
1,3,5-Trimethylbenzene	25	U	7.5	25	25	25	08/19/22 15:08	VOA6_415491	X081914
1,3-Dichlorobenzene	25	U	10	25	25	25	08/19/22 15:08	VOA6_415491	X081914
1,3-Dichloropropane	25	U	7.5	25	25	25	08/19/22 15:08	VOA6_415491	X081914
1,4-Dichlorobenzene	25	U	10	25	25	25	08/19/22 15:08	VOA6_415491	X081914
2,2-Dichloropropane	12	U	5.0	25	25	25	08/19/22 15:08	VOA6_415491	X081914
2-Butanone	25	U	12	50	50	25	08/19/22 15:08	VOA6_415491	X081914
2-Chlorotoluene	25	U	7.5	25	25	25	08/19/22 15:08	VOA6_415491	X081914
2-Hexanone	50	U	25	50	50	25	08/19/22 15:08	VOA6_415491	X081914
4-Chlorotoluene	25	U	10	25	25	25	08/19/22 15:08	VOA6_415491	X081914
4-Isopropyltoluene	25	U	7.5	25	25	25	08/19/22 15:08	VOA6_415491	X081914
4-Methyl-2-pentanone	50	U	18	50	50	25	08/19/22 15:08	VOA6_415491	X081914
Acetone	50	U	10	50	50	25	08/19/22 15:08	VOA6_415491	X081914
Benzene	12	U	5.0	25	25	25	08/19/22 15:08	VOA6_415491	X081914
Bromobenzene	25	U	10	25	25	25	08/19/22 15:08	VOA6_415491	X081914
Bromochloromethane	12	U	5.0	25	25	25	08/19/22 15:08	VOA6_415491	X081914

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8260

HS22080933-02

1824DPTMW05_081522

Collected	Received	Matrix	Units	Basis
08/15/22 08:20	08/17/22 09:25	Groundwater	ug/L	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File
Bromodichloromethane	12	U	5.0	25	25	25	08/19/22 15:08	VOA6_415491	X081914
Bromoform	25	U	10	25	25	25	08/19/22 15:08	VOA6_415491	X081914
Bromomethane	25	U	10	25	25	25	08/19/22 15:08	VOA6_415491	X081914
Carbon disulfide	50	U	15	50	50	25	08/19/22 15:08	VOA6_415491	X081914
Carbon tetrachloride	25	U	12	25	25	25	08/19/22 15:08	VOA6_415491	X081914
Chlorobenzene	25	U	7.5	25	25	25	08/19/22 15:08	VOA6_415491	X081914
Chloroethane	25	U	7.5	25	25	25	08/19/22 15:08	VOA6_415491	X081914
Chloroform	35		5.0	25	25	25	08/19/22 15:08	VOA6_415491	X081914
Chloromethane	12	U	5.0	25	25	25	08/19/22 15:08	VOA6_415491	X081914
cis-1,2-Dichloroethene	73		5.0	25	25	25	08/19/22 15:08	VOA6_415491	X081914
cis-1,3-Dichloropropene	12	U	5.0	25	25	25	08/19/22 15:08	VOA6_415491	X081914
Dibromochloromethane	25	U	7.5	25	25	25	08/19/22 15:08	VOA6_415491	X081914
Dibromomethane	12	U	5.0	25	25	25	08/19/22 15:08	VOA6_415491	X081914
Dichlorodifluoromethane	25	U	7.5	25	25	25	08/19/22 15:08	VOA6_415491	X081914
Ethylbenzene	25	U	7.5	25	25	25	08/19/22 15:08	VOA6_415491	X081914
Hexachlorobutadiene	25	U	25	25	25	25	08/19/22 15:08	VOA6_415491	X081914
Isopropylbenzene	25	U	7.5	25	25	25	08/19/22 15:08	VOA6_415491	X081914
m,p-Xylene	25	U	12	50	50	25	08/19/22 15:08	VOA6_415491	X081914
Methylene chloride	50	U	10	50	50	25	08/19/22 15:08	VOA6_415491	X081914
Naphthalene	25	U	7.5	25	25	25	08/19/22 15:08	VOA6_415491	X081914
n-Butylbenzene	25	U	10	25	25	25	08/19/22 15:08	VOA6_415491	X081914
n-Propylbenzene	25	U	7.5	25	25	25	08/19/22 15:08	VOA6_415491	X081914
o-Xylene	25	U	7.5	25	25	25	08/19/22 15:08	VOA6_415491	X081914
sec-Butylbenzene	25	U	7.5	25	25	25	08/19/22 15:08	VOA6_415491	X081914
Styrene	25	U	7.5	25	25	25	08/19/22 15:08	VOA6_415491	X081914
tert-Butylbenzene	25	U	7.5	25	25	25	08/19/22 15:08	VOA6_415491	X081914
Tetrachloroethene	25	U	7.5	25	25	25	08/19/22 15:08	VOA6_415491	X081914
Toluene	12	U	5.0	25	25	25	08/19/22 15:08	VOA6_415491	X081914
trans-1,2-Dichloroethene	12	U	5.0	25	25	25	08/19/22 15:08	VOA6_415491	X081914
trans-1,3-Dichloropropene	12	U	5.0	25	25	25	08/19/22 15:08	VOA6_415491	X081914
Trichloroethene	4,700		5.0	25	25	25	08/19/22 15:08	VOA6_415491	X081914

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8260

HS22080933-02

1824DPTMW05_081522

Collected	Received	Matrix	Units	Basis
08/15/22 08:20	08/17/22 09:25	Groundwater	ug/L	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File
Trichlorofluoromethane	25	U	7.5	25	25	25	08/19/22 15:08	VOA6_415491	X081914
Vinyl chloride	12	U	5.0	25	25	25	08/19/22 15:08	VOA6_415491	X081914

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8260

HS22080933-03

120_081522

Collected	Received	Matrix	Units	Basis
08/15/22 09:05	08/17/22 09:25	Groundwater	ug/L	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File
Trichloroethene	6,300		10	50	50	50	08/19/22 15:51	VOA6_415491	X081916
1,1,1,2-Tetrachloroethane	10	U	3.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
1,1,1-Trichloroethane	5.0	U	2.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
1,1,2,2-Tetrachloroethane	10	U	5.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
1,1,2-Trichloroethane	10	U	3.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
1,1-Dichloroethane	12		2.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
1,1-Dichloroethene	78		2.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
1,1-Dichloropropene	10	U	3.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
1,2,3-Trichlorobenzene	10	U	4.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
1,2,3-Trichloropropane	10	U	5.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
1,2,4-Trichlorobenzene	10	U	5.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
1,2,4-Trimethylbenzene	10	U	3.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
1,2-Dibromo-3-	10	U	2.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
1,2-Dibromoethane	5.0	U	2.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
1,2-Dichlorobenzene	10	U	5.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
1,2-Dichloroethane	15		2.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
1,2-Dichloropropane	10	U	5.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
1,3,5-Trimethylbenzene	10	U	3.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
1,3-Dichlorobenzene	10	U	4.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
1,3-Dichloropropane	10	U	3.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
1,4-Dichlorobenzene	10	U	4.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
2,2-Dichloropropane	5.0	U	2.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
2-Butanone	10	U	5.0	20	20	10	08/19/22 20:45	VOA6_415491	X081930
2-Chlorotoluene	10	U	3.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
2-Hexanone	20	U	10	20	20	10	08/19/22 20:45	VOA6_415491	X081930
4-Chlorotoluene	10	U	4.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
4-Isopropyltoluene	10	U	3.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
4-Methyl-2-pentanone	20	U	7.0	20	20	10	08/19/22 20:45	VOA6_415491	X081930
Acetone	20	U	4.0	20	20	10	08/19/22 20:45	VOA6_415491	X081930
Benzene	5.0	U	2.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
Bromobenzene	10	U	4.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8260

HS22080933-03

120_081522

Collected	Received	Matrix	Units	Basis
08/15/22 09:05	08/17/22 09:25	Groundwater	ug/L	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File
Bromochloromethane	5.0	U	2.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
Bromodichloromethane	5.0	U	2.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
Bromoform	10	U	4.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
Bromomethane	10	U	4.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
Carbon disulfide	20	U	6.0	20	20	10	08/19/22 20:45	VOA6_415491	X081930
Carbon tetrachloride	10	U	5.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
Chlorobenzene	10	U	3.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
Chloroethane	10	U	3.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
Chloroform	13		2.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
Chloromethane	5.0	U	2.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
cis-1,2-Dichloroethene	820		2.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
cis-1,3-Dichloropropene	5.0	U	2.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
Dibromochloromethane	10	U	3.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
Dibromomethane	5.0	U	2.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
Dichlorodifluoromethane	10	U	3.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
Ethylbenzene	10	U	3.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
Hexachlorobutadiene	10	U	10	10	10	10	08/19/22 20:45	VOA6_415491	X081930
Isopropylbenzene	10	U	3.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
m,p-Xylene	10	U	5.0	20	20	10	08/19/22 20:45	VOA6_415491	X081930
Methylene chloride	20	U	4.0	20	20	10	08/19/22 20:45	VOA6_415491	X081930
Naphthalene	10	U	3.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
n-Butylbenzene	10	U	4.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
n-Propylbenzene	10	U	3.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
o-Xylene	10	U	3.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
sec-Butylbenzene	10	U	3.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
Styrene	10	U	3.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
tert-Butylbenzene	10	U	3.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
Tetrachloroethene	10	U	3.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
Toluene	5.0	U	2.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
trans-1,2-Dichloroethene	7.1	J	2.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
trans-1,3-Dichloropropene	5.0	U	2.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8260

HS22080933-03

120_081522

Collected	Received	Matrix	Units	Basis
08/15/22 09:05	08/17/22 09:25	Groundwater	ug/L	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File
Trichlorofluoromethane	10	U	3.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930
Vinyl chloride	7.4	J	2.0	10	10	10	08/19/22 20:45	VOA6_415491	X081930

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8260

HS22080933-04

MW14_081522

Collected	Received	Matrix	Units	Basis
08/15/22 09:50	08/17/22 09:25	Groundwater	ug/L	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File
1,1,1,2-Tetrachloroethane	25	U	7.5	25	25	25	08/19/22 15:30	VOA6_415491	X081915
1,1,1-Trichloroethane	12	U	5.0	25	25	25	08/19/22 15:30	VOA6_415491	X081915
1,1,2,2-Tetrachloroethane	25	U	12	25	25	25	08/19/22 15:30	VOA6_415491	X081915
1,1,2-Trichloroethane	25	U	7.5	25	25	25	08/19/22 15:30	VOA6_415491	X081915
1,1-Dichloroethane	24	J	5.0	25	25	25	08/19/22 15:30	VOA6_415491	X081915
1,1-Dichloroethene	93		5.0	25	25	25	08/19/22 15:30	VOA6_415491	X081915
1,1-Dichloropropene	25	U	7.5	25	25	25	08/19/22 15:30	VOA6_415491	X081915
1,2,3-Trichlorobenzene	25	U	10	25	25	25	08/19/22 15:30	VOA6_415491	X081915
1,2,3-Trichloropropane	25	U	12	25	25	25	08/19/22 15:30	VOA6_415491	X081915
1,2,4-Trichlorobenzene	25	U	12	25	25	25	08/19/22 15:30	VOA6_415491	X081915
1,2,4-Trimethylbenzene	25	U	7.5	25	25	25	08/19/22 15:30	VOA6_415491	X081915
1,2-Dibromo-3-	25	U	5.0	25	25	25	08/19/22 15:30	VOA6_415491	X081915
1,2-Dibromoethane	12	U	5.0	25	25	25	08/19/22 15:30	VOA6_415491	X081915
1,2-Dichlorobenzene	25	U	12	25	25	25	08/19/22 15:30	VOA6_415491	X081915
1,2-Dichloroethane	81		5.0	25	25	25	08/19/22 15:30	VOA6_415491	X081915
1,2-Dichloropropane	25	U	12	25	25	25	08/19/22 15:30	VOA6_415491	X081915
1,3,5-Trimethylbenzene	25	U	7.5	25	25	25	08/19/22 15:30	VOA6_415491	X081915
1,3-Dichlorobenzene	25	U	10	25	25	25	08/19/22 15:30	VOA6_415491	X081915
1,3-Dichloropropane	25	U	7.5	25	25	25	08/19/22 15:30	VOA6_415491	X081915
1,4-Dichlorobenzene	25	U	10	25	25	25	08/19/22 15:30	VOA6_415491	X081915
2,2-Dichloropropane	12	U	5.0	25	25	25	08/19/22 15:30	VOA6_415491	X081915
2-Butanone	25	U	12	50	50	25	08/19/22 15:30	VOA6_415491	X081915
2-Chlorotoluene	25	U	7.5	25	25	25	08/19/22 15:30	VOA6_415491	X081915
2-Hexanone	50	U	25	50	50	25	08/19/22 15:30	VOA6_415491	X081915
4-Chlorotoluene	25	U	10	25	25	25	08/19/22 15:30	VOA6_415491	X081915
4-Isopropyltoluene	25	U	7.5	25	25	25	08/19/22 15:30	VOA6_415491	X081915
4-Methyl-2-pentanone	50	U	18	50	50	25	08/19/22 15:30	VOA6_415491	X081915
Acetone	50	U	10	50	50	25	08/19/22 15:30	VOA6_415491	X081915
Benzene	12	U	5.0	25	25	25	08/19/22 15:30	VOA6_415491	X081915
Bromobenzene	25	U	10	25	25	25	08/19/22 15:30	VOA6_415491	X081915
Bromochloromethane	12	U	5.0	25	25	25	08/19/22 15:30	VOA6_415491	X081915

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8260

HS22080933-04

MW14_081522

Collected	Received	Matrix	Units	Basis
08/15/22 09:50	08/17/22 09:25	Groundwater	ug/L	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File
Bromodichloromethane	12	U	5.0	25	25	25	08/19/22 15:30	VOA6_415491	X081915
Bromoform	25	U	10	25	25	25	08/19/22 15:30	VOA6_415491	X081915
Bromomethane	25	U	10	25	25	25	08/19/22 15:30	VOA6_415491	X081915
Carbon disulfide	50	U	15	50	50	25	08/19/22 15:30	VOA6_415491	X081915
Carbon tetrachloride	25	U	12	25	25	25	08/19/22 15:30	VOA6_415491	X081915
Chlorobenzene	25	U	7.5	25	25	25	08/19/22 15:30	VOA6_415491	X081915
Chloroethane	25	U	7.5	25	25	25	08/19/22 15:30	VOA6_415491	X081915
Chloroform	12	U	5.0	25	25	25	08/19/22 15:30	VOA6_415491	X081915
Chloromethane	12	U	5.0	25	25	25	08/19/22 15:30	VOA6_415491	X081915
cis-1,2-Dichloroethene	1,900		5.0	25	25	25	08/19/22 15:30	VOA6_415491	X081915
cis-1,3-Dichloropropene	12	U	5.0	25	25	25	08/19/22 15:30	VOA6_415491	X081915
Dibromochloromethane	25	U	7.5	25	25	25	08/19/22 15:30	VOA6_415491	X081915
Dibromomethane	12	U	5.0	25	25	25	08/19/22 15:30	VOA6_415491	X081915
Dichlorodifluoromethane	25	U	7.5	25	25	25	08/19/22 15:30	VOA6_415491	X081915
Ethylbenzene	25	U	7.5	25	25	25	08/19/22 15:30	VOA6_415491	X081915
Hexachlorobutadiene	25	U	25	25	25	25	08/19/22 15:30	VOA6_415491	X081915
Isopropylbenzene	25	U	7.5	25	25	25	08/19/22 15:30	VOA6_415491	X081915
m,p-Xylene	25	U	12	50	50	25	08/19/22 15:30	VOA6_415491	X081915
Methylene chloride	50	U	10	50	50	25	08/19/22 15:30	VOA6_415491	X081915
Naphthalene	25	U	7.5	25	25	25	08/19/22 15:30	VOA6_415491	X081915
n-Butylbenzene	25	U	10	25	25	25	08/19/22 15:30	VOA6_415491	X081915
n-Propylbenzene	25	U	7.5	25	25	25	08/19/22 15:30	VOA6_415491	X081915
o-Xylene	25	U	7.5	25	25	25	08/19/22 15:30	VOA6_415491	X081915
sec-Butylbenzene	25	U	7.5	25	25	25	08/19/22 15:30	VOA6_415491	X081915
Styrene	25	U	7.5	25	25	25	08/19/22 15:30	VOA6_415491	X081915
tert-Butylbenzene	25	U	7.5	25	25	25	08/19/22 15:30	VOA6_415491	X081915
Tetrachloroethene	25	U	7.5	25	25	25	08/19/22 15:30	VOA6_415491	X081915
Toluene	12	U	5.0	25	25	25	08/19/22 15:30	VOA6_415491	X081915
trans-1,2-Dichloroethene	19	J	5.0	25	25	25	08/19/22 15:30	VOA6_415491	X081915
trans-1,3-Dichloropropene	12	U	5.0	25	25	25	08/19/22 15:30	VOA6_415491	X081915
Trichlorofluoromethane	25	U	7.5	25	25	25	08/19/22 15:30	VOA6_415491	X081915

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8260

HS22080933-04

MW14_081522

Collected	Received	Matrix	Units	Basis
08/15/22 09:50	08/17/22 09:25	Groundwater	ug/L	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File
Vinyl chloride	12	U	5.0	25	25	25	08/19/22 15:30	VOA6_415491	X081915
Trichloroethene	8,100		50	250	250	250	08/19/22 16:54	VOA6_415491	X081919

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8260

HS22080933-05

MW18_081522

Collected	Received	Matrix	Units	Basis
08/15/22 10:40	08/17/22 09:25	Groundwater	ug/L	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
1,1,1-Trichloroethane	0.50	U	0.20	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
1,1-Dichloroethane	0.50	U	0.20	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
1,1-Dichloroethene	0.50	U	0.20	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
1,2-Dibromo-3-	1.0	U	0.20	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
1,2-Dibromoethane	0.50	U	0.20	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
1,2-Dichloroethane	0.50	U	0.20	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
2,2-Dichloropropane	0.50	U	0.20	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
2-Butanone	1.0	U	0.50	2.0	2.0	1	08/19/22 14:47	VOA6_415491	X081913
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
2-Hexanone	2.0	U	1.0	2.0	2.0	1	08/19/22 14:47	VOA6_415491	X081913
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
4-Methyl-2-pentanone	2.0	U	0.70	2.0	2.0	1	08/19/22 14:47	VOA6_415491	X081913
Acetone	2.0	U	0.40	2.0	2.0	1	08/19/22 14:47	VOA6_415491	X081913
Benzene	0.50	U	0.20	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
Bromobenzene	1.0	U	0.40	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
Bromochloromethane	0.50	U	0.20	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8260

HS22080933-05

MW18_081522

Collected	Received	Matrix	Units	Basis
08/15/22 10:40	08/17/22 09:25	Groundwater	ug/L	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File
Bromodichloromethane	0.50	U	0.20	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
Bromoform	1.0	U	0.40	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
Bromomethane	1.0	U	0.40	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
Carbon disulfide	2.0	U	0.60	2.0	2.0	1	08/19/22 14:47	VOA6_415491	X081913
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
Chlorobenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
Chloroethane	1.0	U	0.30	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
Chloroform	0.50	U	0.20	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
Chloromethane	0.50	U	0.20	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
cis-1,2-Dichloroethene	1.1		0.20	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
cis-1,3-Dichloropropene	0.50	U	0.20	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
Dibromochloromethane	1.0	U	0.30	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
Dibromomethane	0.50	U	0.20	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
Ethylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
Isopropylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
m,p-Xylene	1.0	U	0.50	2.0	2.0	1	08/19/22 14:47	VOA6_415491	X081913
Methylene chloride	2.0	U	0.40	2.0	2.0	1	08/19/22 14:47	VOA6_415491	X081913
Naphthalene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
n-Butylbenzene	1.0	U	0.40	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
n-Propylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
o-Xylene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
Styrene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
Tetrachloroethene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
Toluene	0.50	U	0.20	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
trans-1,2-Dichloroethene	0.50	U	0.20	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
trans-1,3-Dichloropropene	0.50	U	0.20	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
Trichloroethene	8.4		0.20	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8260

HS22080933-05

MW18_081522

Collected	Received	Matrix	Units	Basis
08/15/22 10:40	08/17/22 09:25	Groundwater	ug/L	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913
Vinyl chloride	0.50	U	0.20	1.0	1.0	1	08/19/22 14:47	VOA6_415491	X081913

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8260

HS22080933-06

18WW25_081522

Collected	Received	Matrix	Units	Basis
08/15/22 11:25	08/17/22 09:25	Groundwater	ug/L	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
1,1,1-Trichloroethane	0.50	U	0.20	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
1,1-Dichloroethane	0.50	U	0.20	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
1,1-Dichloroethene	0.50	U	0.20	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
1,2-Dibromo-3-	1.0	U	0.20	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
1,2-Dibromoethane	0.50	U	0.20	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
1,2-Dichloroethane	0.50	U	0.20	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
2,2-Dichloropropane	0.50	U	0.20	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
2-Butanone	1.0	U	0.50	2.0	2.0	1	08/19/22 14:26	VOA6_415491	X081912
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
2-Hexanone	2.0	U	1.0	2.0	2.0	1	08/19/22 14:26	VOA6_415491	X081912
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
4-Methyl-2-pentanone	2.0	U	0.70	2.0	2.0	1	08/19/22 14:26	VOA6_415491	X081912
Acetone	2.0	U	0.40	2.0	2.0	1	08/19/22 14:26	VOA6_415491	X081912
Benzene	0.50	U	0.20	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
Bromobenzene	1.0	U	0.40	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
Bromochloromethane	0.50	U	0.20	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8260

HS22080933-06

18WW25_081522

Collected	Received	Matrix	Units	Basis
08/15/22 11:25	08/17/22 09:25	Groundwater	ug/L	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File
Bromodichloromethane	0.50	U	0.20	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
Bromoform	1.0	U	0.40	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
Bromomethane	1.0	U	0.40	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
Carbon disulfide	2.0	U	0.60	2.0	2.0	1	08/19/22 14:26	VOA6_415491	X081912
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
Chlorobenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
Chloroethane	1.0	U	0.30	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
Chloroform	0.50	U	0.20	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
Chloromethane	0.50	U	0.20	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
cis-1,2-Dichloroethene	0.50	U	0.20	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
cis-1,3-Dichloropropene	0.50	U	0.20	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
Dibromochloromethane	1.0	U	0.30	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
Dibromomethane	0.50	U	0.20	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
Ethylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
Isopropylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
m,p-Xylene	1.0	U	0.50	2.0	2.0	1	08/19/22 14:26	VOA6_415491	X081912
Methylene chloride	2.0	U	0.40	2.0	2.0	1	08/19/22 14:26	VOA6_415491	X081912
Naphthalene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
n-Butylbenzene	1.0	U	0.40	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
n-Propylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
o-Xylene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
Styrene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
Tetrachloroethene	1.0	U	0.30	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
Toluene	0.50	U	0.20	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
trans-1,2-Dichloroethene	0.50	U	0.20	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
trans-1,3-Dichloropropene	0.50	U	0.20	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
Trichloroethene	0.50	U	0.20	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8260

HS22080933-06

18WW25_081522

Collected	Received	Matrix	Units	Basis
08/15/22 11:25	08/17/22 09:25	Groundwater	ug/L	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912
Vinyl chloride	0.50	U	0.20	1.0	1.0	1	08/19/22 14:26	VOA6_415491	X081912

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8260

HS22080933-07

18CPTMW15_081522

Collected	Received	Matrix	Units	Basis
08/15/22 12:10	08/17/22 09:25	Groundwater	ug/L	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
1,1,1-Trichloroethane	0.50	U	0.20	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
1,1-Dichloroethane	0.50	U	0.20	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
1,1-Dichloroethene	0.50	U	0.20	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
1,2-Dibromo-3-	1.0	U	0.20	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
1,2-Dibromoethane	0.50	U	0.20	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
1,2-Dichloroethane	0.50	U	0.20	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
2,2-Dichloropropane	0.50	U	0.20	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
2-Butanone	1.0	U	0.50	2.0	2.0	1	08/19/22 13:44	VOA6_415491	X081910
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
2-Hexanone	2.0	U	1.0	2.0	2.0	1	08/19/22 13:44	VOA6_415491	X081910
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
4-Methyl-2-pentanone	2.0	U	0.70	2.0	2.0	1	08/19/22 13:44	VOA6_415491	X081910
Acetone	2.0	U	0.40	2.0	2.0	1	08/19/22 13:44	VOA6_415491	X081910
Benzene	0.50	U	0.20	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
Bromobenzene	1.0	U	0.40	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
Bromochloromethane	0.50	U	0.20	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8260

HS22080933-07

18CPTMW15_081522

Collected	Received	Matrix	Units	Basis
08/15/22 12:10	08/17/22 09:25	Groundwater	ug/L	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File
Bromodichloromethane	0.50	U	0.20	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
Bromoform	1.0	U	0.40	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
Bromomethane	1.0	U	0.40	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
Carbon disulfide	2.0	U	0.60	2.0	2.0	1	08/19/22 13:44	VOA6_415491	X081910
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
Chlorobenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
Chloroethane	1.0	U	0.30	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
Chloroform	0.50	U	0.20	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
Chloromethane	0.50	U	0.20	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
cis-1,2-Dichloroethene	0.50	U	0.20	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
cis-1,3-Dichloropropene	0.50	U	0.20	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
Dibromochloromethane	1.0	U	0.30	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
Dibromomethane	0.50	U	0.20	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
Ethylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
Isopropylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
m,p-Xylene	1.0	U	0.50	2.0	2.0	1	08/19/22 13:44	VOA6_415491	X081910
Methylene chloride	2.0	U	0.40	2.0	2.0	1	08/19/22 13:44	VOA6_415491	X081910
Naphthalene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
n-Butylbenzene	1.0	U	0.40	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
n-Propylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
o-Xylene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
Styrene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
Tetrachloroethene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
Toluene	0.50	U	0.20	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
trans-1,2-Dichloroethene	0.50	U	0.20	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
trans-1,3-Dichloropropene	0.50	U	0.20	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
Trichloroethene	1.5		0.20	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8260

HS22080933-07

18CPTMW15_081522

Collected	Received	Matrix	Units	Basis
08/15/22 12:10	08/17/22 09:25	Groundwater	ug/L	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910
Vinyl chloride	0.50	U	0.20	1.0	1.0	1	08/19/22 13:44	VOA6_415491	X081910

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8260

HS22080933-08

CO6_081522

Collected	Received	Matrix	Units	Basis
08/15/22 13:00	08/17/22 09:25	Groundwater	ug/L	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
1,1,1-Trichloroethane	0.50	U	0.20	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
1,1-Dichloroethane	0.50	U	0.20	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
1,1-Dichloroethene	0.50	U	0.20	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
1,2-Dibromo-3-	1.0	U	0.20	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
1,2-Dibromoethane	0.50	U	0.20	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
1,2-Dichloroethane	0.50	U	0.20	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
2,2-Dichloropropane	0.50	U	0.20	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
2-Butanone	1.0	U	0.50	2.0	2.0	1	08/19/22 13:23	VOA6_415491	X081909
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
2-Hexanone	2.0	U	1.0	2.0	2.0	1	08/19/22 13:23	VOA6_415491	X081909
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
4-Methyl-2-pentanone	2.0	U	0.70	2.0	2.0	1	08/19/22 13:23	VOA6_415491	X081909
Acetone	2.0	U	0.40	2.0	2.0	1	08/19/22 13:23	VOA6_415491	X081909
Benzene	0.50	U	0.20	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
Bromobenzene	1.0	U	0.40	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
Bromochloromethane	0.50	U	0.20	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8260

HS22080933-08

CO6_081522

Collected	Received	Matrix	Units	Basis
08/15/22 13:00	08/17/22 09:25	Groundwater	ug/L	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File
Bromodichloromethane	0.50	U	0.20	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
Bromoform	1.0	U	0.40	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
Bromomethane	1.0	U	0.40	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
Carbon disulfide	2.0	U	0.60	2.0	2.0	1	08/19/22 13:23	VOA6_415491	X081909
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
Chlorobenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
Chloroethane	1.0	U	0.30	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
Chloroform	0.50	U	0.20	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
Chloromethane	0.50	U	0.20	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
cis-1,2-Dichloroethene	0.50	U	0.20	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
cis-1,3-Dichloropropene	0.50	U	0.20	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
Dibromochloromethane	1.0	U	0.30	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
Dibromomethane	0.50	U	0.20	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
Ethylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
Isopropylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
m,p-Xylene	1.0	U	0.50	2.0	2.0	1	08/19/22 13:23	VOA6_415491	X081909
Methylene chloride	2.0	U	0.40	2.0	2.0	1	08/19/22 13:23	VOA6_415491	X081909
Naphthalene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
n-Butylbenzene	1.0	U	0.40	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
n-Propylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
o-Xylene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
Styrene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
Tetrachloroethene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
Toluene	0.50	U	0.20	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
trans-1,2-Dichloroethene	0.50	U	0.20	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
trans-1,3-Dichloropropene	0.50	U	0.20	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
Trichloroethene	0.50	U	0.20	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8260

HS22080933-08

CO6_081522

Collected	Received	Matrix	Units	Basis
08/15/22 13:00	08/17/22 09:25	Groundwater	ug/L	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909
Vinyl chloride	0.50	U	0.20	1.0	1.0	1	08/19/22 13:23	VOA6_415491	X081909

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8260

HS22080933-09

Trip Blank

Collected	Received	Matrix	Units	Basis
08/15/22 00:00	08/17/22 09:25	Water	ug/L	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
1,1,1-Trichloroethane	0.50	U	0.20	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
1,1-Dichloroethane	0.50	U	0.20	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
1,1-Dichloroethene	0.50	U	0.20	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
1,2-Dibromo-3-	1.0	U	0.20	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
1,2-Dibromoethane	0.50	U	0.20	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
1,2-Dichloroethane	0.50	U	0.20	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
2,2-Dichloropropane	0.50	U	0.20	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
2-Butanone	1.0	U	0.50	2.0	2.0	1	08/19/22 13:02	VOA6_415491	X081908
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
2-Hexanone	2.0	U	1.0	2.0	2.0	1	08/19/22 13:02	VOA6_415491	X081908
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
4-Methyl-2-pentanone	2.0	U	0.70	2.0	2.0	1	08/19/22 13:02	VOA6_415491	X081908
Acetone	2.0	U	0.40	2.0	2.0	1	08/19/22 13:02	VOA6_415491	X081908
Benzene	0.50	U	0.20	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
Bromobenzene	1.0	U	0.40	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
Bromochloromethane	0.50	U	0.20	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8260

HS22080933-09

Trip Blank

Collected	Received	Matrix	Units	Basis
08/15/22 00:00	08/17/22 09:25	Water	ug/L	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File
Bromodichloromethane	0.50	U	0.20	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
Bromoform	1.0	U	0.40	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
Bromomethane	1.0	U	0.40	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
Carbon disulfide	2.0	U	0.60	2.0	2.0	1	08/19/22 13:02	VOA6_415491	X081908
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
Chlorobenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
Chloroethane	1.0	U	0.30	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
Chloroform	0.50	U	0.20	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
Chloromethane	0.50	U	0.20	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
cis-1,2-Dichloroethene	0.50	U	0.20	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
cis-1,3-Dichloropropene	0.50	U	0.20	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
Dibromochloromethane	1.0	U	0.30	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
Dibromomethane	0.50	U	0.20	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
Ethylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
Isopropylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
m,p-Xylene	1.0	U	0.50	2.0	2.0	1	08/19/22 13:02	VOA6_415491	X081908
Methylene chloride	2.0	U	0.40	2.0	2.0	1	08/19/22 13:02	VOA6_415491	X081908
Naphthalene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
n-Butylbenzene	1.0	U	0.40	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
n-Propylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
o-Xylene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
Styrene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
Tetrachloroethene	1.0	U	0.30	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
Toluene	0.50	U	0.20	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
trans-1,2-Dichloroethene	0.50	U	0.20	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
trans-1,3-Dichloropropene	0.50	U	0.20	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
Trichloroethene	0.50	U	0.20	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8260

HS22080933-09

Trip Blank

Collected	Received	Matrix	Units	Basis
08/15/22 00:00	08/17/22 09:25	Water	ug/L	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908
Vinyl chloride	0.50	U	0.20	1.0	1.0	1	08/19/22 13:02	VOA6_415491	X081908

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8260

VBLKW-220819

VBLKW-220819

Collected	Received	Matrix	Units	Basis
NA	NA	Aqueous	ug/L	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
1,1,1-Trichloroethane	0.50	U	0.20	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
1,1-Dichloroethane	0.50	U	0.20	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
1,1-Dichloroethene	0.50	U	0.20	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
1,2-Dibromo-3-	1.0	U	0.20	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
1,2-Dibromoethane	0.50	U	0.20	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
1,2-Dichloroethane	0.50	U	0.20	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
2,2-Dichloropropane	0.50	U	0.20	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
2-Butanone	1.0	U	0.50	2.0	2.0	1	08/19/22 12:41	VOA6_415491	X081907
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
2-Hexanone	2.0	U	1.0	2.0	2.0	1	08/19/22 12:41	VOA6_415491	X081907
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
4-Methyl-2-pentanone	2.0	U	0.70	2.0	2.0	1	08/19/22 12:41	VOA6_415491	X081907
Acetone	2.0	U	0.40	2.0	2.0	1	08/19/22 12:41	VOA6_415491	X081907
Benzene	0.50	U	0.20	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
Bromobenzene	1.0	U	0.40	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
Bromochloromethane	0.50	U	0.20	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8260

VBLKW-220819

VBLKW-220819

Collected	Received	Matrix	Units	Basis
NA	NA	Aqueous	ug/L	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File
Bromodichloromethane	0.50	U	0.20	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
Bromoform	1.0	U	0.40	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
Bromomethane	1.0	U	0.40	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
Carbon disulfide	2.0	U	0.60	2.0	2.0	1	08/19/22 12:41	VOA6_415491	X081907
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
Chlorobenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
Chloroethane	1.0	U	0.30	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
Chloroform	0.50	U	0.20	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
Chloromethane	0.50	U	0.20	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
cis-1,2-Dichloroethene	0.50	U	0.20	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
cis-1,3-Dichloropropene	0.50	U	0.20	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
Dibromochloromethane	1.0	U	0.30	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
Dibromomethane	0.50	U	0.20	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
Ethylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
Isopropylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
m,p-Xylene	1.0	U	0.50	2.0	2.0	1	08/19/22 12:41	VOA6_415491	X081907
Methylene chloride	2.0	U	0.40	2.0	2.0	1	08/19/22 12:41	VOA6_415491	X081907
Naphthalene	1.0	U	0.30	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
n-Butylbenzene	1.0	U	0.40	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
n-Propylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
o-Xylene	1.0	U	0.30	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
Styrene	1.0	U	0.30	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
Tetrachloroethene	1.0	U	0.30	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
Toluene	0.50	U	0.20	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
trans-1,2-Dichloroethene	0.50	U	0.20	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
trans-1,3-Dichloropropene	0.50	U	0.20	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
Trichloroethene	0.50	U	0.20	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8260

VBLKW-220819

VBLKW-220819

Collected	Received	Matrix	Units	Basis
NA	NA	Aqueous	ug/L	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907
Vinyl chloride	0.50	U	0.20	1.0	1.0	1	08/19/22 12:41	VOA6_415491	X081907

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

right solutions.
right partner.

Form 2

System Monitoring Compound Recovery

Workorder

HS22080933

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

09/09/2022

FORM 2
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: HS22080933

	CLIENT SAMPLE NO.	S1 (NBZ) #	S2 #	S3 (FBP) #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	MBLK-182674	84	60	45						0
02	LCS-182674	86	66	44						0
03	LCSD-182674	87	63	46						0
04										
05										
06										
07										
08										
09										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										

	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(40-140)
S2 = 4-Terphenyl-d14	(40-140)
S3 (FBP) = 2-Fluorobiphenyl	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 2
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: HS22080933

	CLIENT SAMPLE NO.	S1 (NBZ) #	S2 #	S3 (FBP) #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	HS22080933-01	81	67	67						0
02	HS22080933-02	98	63	76						0
03	HS22080933-03	90	55	72						0
04	HS22080933-04	70	58	42						0
05	HS22080933-06	78	65	59						0
06	HS22080933-07	78	61	59						0
07										
08										
09										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										

	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(40-140)
S2 = 4-Terphenyl-d14	(40-140)
S3 (FBP) = 2-Fluorobiphenyl	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 2
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: HS22080933

	CLIENT SAMPLE NO.	S1 (NBZ) #	S2 #	S3 (FBP) #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	HS22080933-02	0D	0D	0D						0
02	HS22080933-03	0D	0D	0D						0
03	HS22080933-04	0D	0D	0D						0
04										
05										
06										
07										
08										
09										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										

	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(40-140)
S2 = 4-Terphenyl-d14	(40-140)
S3 (FBP) = 2-Fluorobiphenyl	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

right solutions.
right partner.

Form 3A

Matrix Spike/Spike Duplicate Recovery

Workorder

HS22080933

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

09/09/2022

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

18CPTMW03SW_081522		HS22080933-01		HS22080933-01MS				HS22080933-01MSD						
Sample Matrix	Aqueous	Run Date	08/19/22			08/19/22				08/19/22				
Units	µg/L	Run Time	14:05			16:12				16:33				
		Data File	X081911.D			X081917.D				X081918.D				
Analyte	%R Limits	DF	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	21.69	20.00	108		20.43	20.00	102		20	6.00	
1,1,1-Trichloroethane	74-131	1	0	21.65	20.00	108		20.83	20.00	104		20	3.90	
1,1,2,2-Tetrachloroethane	71-121	1	0	21.38	20.00	107		20.79	20.00	104		20	2.80	
1,1,2-Trichloroethane	80-119	1	0	21.59	20.00	108		20.45	20.00	102		20	5.40	
1,1-Dichloroethane	77-125	1	0	20.65	20.00	103		20.14	20.00	101		20	2.50	
1,1-Dichloroethene	71-131	1	0	20.32	20.00	102		19.27	20.00	96		20	5.30	
1,1-Dichloropropene	78-125	1	0	22.58	20.00	113		21.8	20.00	109		20	3.50	
1,2,3-Trichlorobenzene	69-129	1	0	19.23	20.00	96		23.19	20.00	116		20	18.7	
1,2,3-Trichloropropane	73-122	1	0	21.81	20.00	109		21.59	20.00	108		20	1.00	
1,2,4-Trichlorobenzene	69-130	1	0	20.83	20.00	104		22.26	20.00	111		20	6.70	
1,2,4-Trimethylbenzene	76-124	1	0	22.70	20.00	114		21.53	20.00	108		20	5.30	
1,2-Dibromo-3-	62-128	1	0	20.41	20.00	102		22.81	20.00	114		20	11.1	
1,2-Dibromoethane	77-121	1	0	21.38	20.00	107		20.16	20.00	101		20	5.90	
1,2-Dichlorobenzene	80-119	1	0	22.19	20.00	111		21.27	20.00	106		20	4.20	
1,2-Dichloroethane	73-128	1	0	20.92	20.00	105		21.24	20.00	106		20	1.50	
1,2-Dichloropropane	78-122	1	0	21.22	20.00	106		20.26	20.00	101		20	4.60	
1,3,5-Trimethylbenzene	75-124	1	0	22.97	20.00	115		21.85	20.00	109		20	5.00	
1,3-Dichlorobenzene	80-119	1	0	22.18	20.00	111		21.28	20.00	106		20	4.10	
1,3-Dichloropropane	80-119	1	0	21.23	20.00	106		20.19	20.00	101		20	5.00	
1,4-Dichlorobenzene	79-118	1	0	22.10	20.00	110		21.05	20.00	105		20	4.80	
2,2-Dichloropropane	60-139	1	0	22.01	20.00	110		21.14	20.00	106		20	4.00	
2-Butanone	56-143	1	0	38.73	40.00	97		36.06	40.00	90		20	7.10	
2-Chlorotoluene	79-122	1	0	22.11	20.00	111		20.63	20.00	103		20	7.00	
2-Hexanone	57-139	1	0	43.79	40.00	109		41.8	40.00	104		20	4.70	
4-Chlorotoluene	78-122	1	0	22.45	20.00	112		21.06	20.00	105		20	6.40	
4-Isopropyltoluene	77-127	1	0	23.96	20.00	120		22.48	20.00	112		20	6.40	
4-Methyl-2-pentanone	67-130	1	0	45.49	40.00	114		43.05	40.00	108		20	5.50	
Acetone	39-160	1	0	30.03	40.00	75		30.48	40.00	76		20	1.50	
Benzene	79-120	1	1.294	22.74	20.00	107		21.59	20.00	101		20	5.20	
Bromobenzene	80-120	1	0	22.09	20.00	110		20.64	20.00	103		20	6.80	
Bromochloromethane	78-123	1	0	19.09	20.00	95		18.9	20.00	95		20	1.00	
Bromodichloromethane	79-125	1	0	21.29	20.00	106		20.31	20.00	102		20	4.70	
Bromoform	66-130	1	0	20.50	20.00	103		19.89	20.00	99		20	3.00	
Bromomethane	53-141	1	0	18.02	20.00	90		14.32	20.00	72		20	22.9	

- %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

18CPTMW03SW_081522		HS22080933-01		HS22080933-01MS				HS22080933-01MSD						
Sample Matrix	Aqueous	**Run Date**	08/19/22			08/19/22				08/19/22				
Units	µg/L	**Run Time**	14:05			16:12				16:33				
		Data File	X081911.D			X081917.D				X081918.D				
Analyte	%R Limits	DF	Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Carbon disulfide	64-133	1	0	43.58	40.00	109		41.29	40.00	103		20	5.40	
Carbon tetrachloride	72-136	1	0	22.39	20.00	112		21.31	20.00	107		20	4.90	
Chlorobenzene	82-118	1	0	22.10	20.00	110		21.16	20.00	106		20	4.30	
Chloroethane	60-138	1	0	17.81	20.00	89		16.17	20.00	81		20	9.70	
Chloroform	79-124	1	0	20.54	20.00	103		19.77	20.00	99		20	3.80	
Chloromethane	50-139	1	0	20.78	20.00	104		19.04	20.00	95		20	8.70	
cis-1,2-Dichloroethene	78-123	1	37.49	58.87	20.00	107		56.53	20.00	95		20	4.10	
cis-1,3-Dichloropropene	75-124	1	0	21.00	20.00	105		20.09	20.00	100		20	4.40	
Dibromochloromethane	74-126	1	0	20.98	20.00	105		20.3	20.00	102		20	3.30	
Dibromomethane	79-123	1	0	20.77	20.00	104		19.97	20.00	100		20	3.90	
Dichlorodifluoromethane	32-152	1	0	18.96	20.00	95		17.71	20.00	89		20	6.80	
Ethylbenzene	79-121	1	0	23.04	20.00	115		21.77	20.00	109		20	5.70	
Hexachlorobutadiene	66-134	1	0	22.29	20.00	111		22.06	20.00	110		20	1.10	
Isopropylbenzene	72-131	1	0	23.39	20.00	117		22.38	20.00	112		20	4.50	
m,p-Xylene	80-121	1	0	46.34	40.00	116		43.79	40.00	109		20	5.70	
Methylene chloride	74-124	1	0	19.96	20.00	100		19.46	20.00	97		20	2.50	
n-Butylbenzene	75-128	1	0	24.55	20.00	123		23.55	20.00	118		20	4.20	
n-Propylbenzene	76-126	1	0	24.32	20.00	122		22.85	20.00	114		20	6.30	
Naphthalene	61-128	1	0	18.14	20.00	91		22.27	20.00	111		20	20.4	
o-Xylene	78-122	1	0	22.39	20.00	112		21.14	20.00	106		20	5.80	
sec-Butylbenzene	77-126	1	0	24.02	20.00	120		22.52	20.00	113		20	6.50	
Styrene	78-123	1	0	22.18	20.00	111		21.11	20.00	106		20	5.00	
tert-Butylbenzene	78-124	1	0	23.90	20.00	120		22.29	20.00	111		20	7.00	
Tetrachloroethene	74-129	1	0	22.92	20.00	115		21.13	20.00	106		20	8.10	
Toluene	80-121	1	0	22.43	20.00	112		21.24	20.00	106		20	5.50	
trans-1,2-Dichloroethene	75-124	1	1.039	22.29	20.00	106		21.31	20.00	101		20	4.50	
trans-1,3-Dichloropropene	73-127	1	0	21.03	20.00	105		20.2	20.00	101		20	4.00	
Trichloroethene	79-123	1	3.403	25.37	20.00	110		24.28	20.00	104		20	4.40	
Trichlorofluoromethane	65-141	1	0	20.83	20.00	104		19.99	20.00	100		20	4.10	
Vinyl chloride	58-137	1	0	19.50	20.00	98		18.05	20.00	90		20	7.70	

- %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits

right solutions.
right partner.

Form 3B

Laboratory Control Sample Recovery

EPA 8260

Workorder

HS22080933

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

09/09/2022

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8260

VOA6_415491			VLCSW-220819		
QC Matrix: Aqueous	Units: ug/L	Run Date / Run Time	08/19/22 11:59		
Analyte	%R Limits	Spike Added	LCS Result	%R	Q
1,1,1,2-Tetrachloroethane	78-124	20	20.39	102	
1,1,1-Trichloroethane	74-131	20	19.45	97	
1,1,2,2-Tetrachloroethane	71-121	20	19.94	100	
1,1,2-Trichloroethane	80-119	20	19.43	97	
1,1-Dichloroethane	77-125	20	18.61	93	
1,1-Dichloroethene	71-131	20	17.27	86	
1,1-Dichloropropene	78-125	20	19.78	99	
1,2,3-Trichlorobenzene	69-129	20	20.2	101	
1,2,3-Trichloropropane	73-122	20	20.86	104	
1,2,4-Trichlorobenzene	69-130	20	19.48	97	
1,2,4-Trimethylbenzene	76-124	20	21.67	108	
1,2-Dibromo-3-chloropropane	62-128	20	21.43	107	
1,2-Dibromoethane	77-121	20	19.38	97	
1,2-Dichlorobenzene	80-119	20	21.03	105	
1,2-Dichloroethane	73-128	20	19.13	96	
1,2-Dichloroethane-d4	81-118	50	52.82	106	
1,2-Dichloropropane	78-122	20	19.42	97	
1,3,5-Trimethylbenzene	75-124	20	21.72	109	
1,3-Dichlorobenzene	80-119	20	21.15	106	
1,3-Dichloropropane	80-119	20	19.3	96	
1,4-Dichlorobenzene	79-118	20	21	105	
2,2-Dichloropropane	60-139	20	19.77	99	
2-Butanone	56-143	40	35.29	88	
2-Chlorotoluene	79-122	20	20.53	103	
2-Hexanone	57-139	40	39.46	99	
4-Bromofluorobenzene	85-114	50	52.58	105	
4-Chlorotoluene	78-122	20	21.22	106	
4-Isopropyltoluene	77-127	20	22.24	111	
4-Methyl-2-pentanone	67-130	40	41.34	103	
Acetone	39-160	40	33.61	84	
Benzene	79-120	20	18.47	92	
Bromobenzene	80-120	20	20.51	103	
Bromochloromethane	78-123	20	18	90	
Bromodichloromethane	79-125	20	19.48	97	
Bromoform	66-130	20	19.05	95	
Bromomethane	53-141	20	17.87	89	

- %Recovery / RPD Flag * - %Recovery / RPD Outside Limits

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8260

VOA6_415491			VLCSW-220819		
QC Matrix: Aqueous	Units: ug/L	Run Date / Run Time	08/19/22 11:59		
Analyte	%R Limits	Spike Added	LCS Result	%R	Q
Carbon disulfide	64-133	40	35.69	89	
Carbon tetrachloride	72-136	20	18.38	92	
Chlorobenzene	82-118	20	20.16	101	
Chloroethane	60-138	20	17.37	87	
Chloroform	79-124	20	19.32	97	
Chloromethane	50-139	20	19.14	96	
cis-1,2-Dichloroethene	78-123	20	19.12	96	
cis-1,3-Dichloropropene	75-124	20	19.64	98	
Dibromochloromethane	74-126	20	19.36	97	
Dibromofluoromethane	80-119	50	52.99	106	
Dibromomethane	79-123	20	18.66	93	
Dichlorodifluoromethane	32-152	20	18.48	92	
Ethylbenzene	79-121	20	20.32	102	
Hexachlorobutadiene	66-134	20	21.78	109	
Isopropylbenzene	72-131	20	20.91	105	
m,p-Xylene	80-121	40	41.16	103	
Methylene chloride	74-124	20	19.83	99	
Naphthalene	61-128	20	20.45	102	
n-Butylbenzene	75-128	20	22.73	114	
n-Propylbenzene	76-126	20	22.2	111	
o-Xylene	78-122	20	20.1	100	
sec-Butylbenzene	77-126	20	22.29	111	
Styrene	78-123	20	20.36	102	
tert-Butylbenzene	78-124	20	21.63	108	
Tetrachloroethene	74-129	20	19.4	97	
Toluene	80-121	20	19.59	98	
Toluene-d8	89-112	50	52.39	105	
trans-1,2-Dichloroethene	75-124	20	18.94	95	
trans-1,3-Dichloropropene	73-127	20	19.7	98	
Trichloroethene	79-123	20	19	95	
Trichlorofluoromethane	65-141	20	18.11	91	
Vinyl chloride	58-137	20	17.2	86	

- %Recovery / RPD Flag * - %Recovery / RPD Outside Limits

right solutions.
right partner.

Form 4

Method Blank Summary

Workorder

HS22080933

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

09/09/2022

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

BatchID
R415491

Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	VBLKW-220819	X081907.D	08/19/22 12:41	VOA6_415491
VLCSW-220819	VLCSW-220819	X081905.D	08/19/22 11:59	VOA6_415491
Trip Blank	HS22080933-09	X081908.D	08/19/22 13:02	VOA6_415491
CO6_081522	HS22080933-08	X081909.D	08/19/22 13:23	VOA6_415491
18CPTMW15_081522	HS22080933-07	X081910.D	08/19/22 13:44	VOA6_415491
18CPTMW03SW_081522	HS22080933-01	X081911.D	08/19/22 14:05	VOA6_415491
18WW25_081522	HS22080933-06	X081912.D	08/19/22 14:26	VOA6_415491
MW18_081522	HS22080933-05	X081913.D	08/19/22 14:47	VOA6_415491
1824DPTMW05_081522	HS22080933-02	X081914.D	08/19/22 15:08	VOA6_415491
MW14_081522	HS22080933-04	X081915.D	08/19/22 15:30	VOA6_415491
120_081522	HS22080933-03	X081916.D	08/19/22 15:51	VOA6_415491
HS22080933-01MS	HS22080933-01MS	X081917.D	08/19/22 16:12	VOA6_415491
HS22080933-01MSD	HS22080933-01MSD	X081918.D	08/19/22 16:33	VOA6_415491
MW14_081522	HS22080933-04	X081919.D	08/19/22 16:54	VOA6_415491
ZZZZZZ	HS22080927-11	X081921.D	08/19/22 17:36	VOA6_415491
ZZZZZZ	HS22080927-03	X081922.D	08/19/22 17:57	VOA6_415491
ZZZZZZ	HS22080927-04	X081923.D	08/19/22 18:18	VOA6_415491
ZZZZZZ	HS22080927-06	X081924.D	08/19/22 18:39	VOA6_415491
ZZZZZZ	HS22080927-07	X081925.D	08/19/22 19:00	VOA6_415491
ZZZZZZ	HS22080927-08	X081926.D	08/19/22 19:21	VOA6_415491
ZZZZZZ	HS22080927-09	X081927.D	08/19/22 19:42	VOA6_415491
ZZZZZZ	HS22080927-10	X081928.D	08/19/22 20:03	VOA6_415491
ZZZZZZ	HS22080927-05	X081929.D	08/19/22 20:24	VOA6_415491
120_081522	HS22080933-03	X081930.D	08/19/22 20:45	VOA6_415491

right solutions.
right partner.

Form 5

Instrument Performance Check

Workorder

HS22080933

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

09/09/2022

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

RunID
VOA6_413360

Tune File X071901.D 07/19/22 11:06

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	16 (16)
75	30.0 - 60.0% of mass 95	50.1 (50.1)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	6.3 (6.29)
173	Less than 2.0% of mass 174	0.5 (0.527) 1
174	50.0 - 120.0% of mass 95	99.8 (99.8)
175	4.0 - 9.0% of mass 174	6.4 (6.41) 1
176	93.0 - 101.0% of mass 174	99.2 (99.4) 1
177	5.0 - 9.0% of mass 176	5.4 (5.48) 2

Value is % of mass 1) 174 2) 176 RA - Relative Abundance

This check applies to the following analyses

	Type	Date Analyzed	Lab File ID	Sample ID
1	ICAL1	07/19/22 11:27	X071902	VSTD000.25
2	ICAL2	07/19/22 12:08	X071903	VSTD000.5
3	ICAL3	07/19/22 12:29	X071904	VSTD001
4	ICAL4	07/19/22 12:50	X071905	VSTD002
5	ICAL5	07/19/22 13:11	X071906	VSTD005
6	ICAL6	07/19/22 13:32	X071907	VSTD020
7	ICAL7	07/19/22 13:53	X071908	VSTD050
8	ICAL8	07/19/22 14:14	X071909	VSTD100
9	ICAL9	07/19/22 14:35	X071910	VSTD150
10	ICAL	07/19/22 14:56	X071911	VSTD200
11	ICV	07/19/22 16:20	X071915	CCV

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

RunID
VOA6_415491

Tune File X081901.D 08/19/22 10:35

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	19.4 (19.4)
75	30.0 - 60.0% of mass 95	49.7 (49.7)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	6.7 (6.69)
173	Less than 2.0% of mass 174	0.7 (0.824) 1
174	50.0 - 120.0% of mass 95	86 (86)
175	4.0 - 9.0% of mass 174	6.6 (7.68) 1
176	93.0 - 101.0% of mass 174	82 (95.4) 1
177	5.0 - 9.0% of mass 176	6 (7.36) 2

Value is % of mass 1) 174 2) 176 RA - Relative Abundance

This check applies to the following analyses

	Type	Date Analyzed	Lab File ID	Sample ID
1	CCV	08/19/22 11:17	X081903	CCV
2	CCB	08/19/22 11:38	X081904	CCB
3	LCS	08/19/22 11:59	X081905	VLCSW-220819
4	MBLK	08/19/22 12:41	X081907	VBLKW-220819
5	SAMP	08/19/22 13:02	X081908	Trip Blank
6	SAMP	08/19/22 13:23	X081909	CO6_081522
7	SAMP	08/19/22 13:44	X081910	18CPTMW15_081522
8	SAMP	08/19/22 14:05	X081911	18CPTMW03SW_081522
9	SAMP	08/19/22 14:26	X081912	18WW25_081522
10	SAMP	08/19/22 14:47	X081913	MW18_081522
11	SAMP	08/19/22 15:08	X081914	1824DPTMW05_081522
12	SAMP	08/19/22 15:30	X081915	MW14_081522
13	SAMP	08/19/22 15:51	X081916	120_081522
14	MS	08/19/22 16:12	X081917	HS22080933-01MS
15	MSD	08/19/22 16:33	X081918	HS22080933-01MSD
16	SAMP	08/19/22 16:54	X081919	MW14_081522
17	SAMP	08/19/22 20:45	X081930	120_081522
18	CCV_EN	08/19/22 21:06	X081931	CCV-END

right solutions.
right partner.

Form 6

Initial Calibration Data

Workorder

HS22080933

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

09/09/2022

Initial Calibration Data

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS22080933

RunID VOA6_413360

Volatiles Organics by Method 8260C

ICAL Start Date 19-JUL-2022 1127
ICAL End Date 19-JUL-2022 1456

Calibration Files

Level 1 ..Voa6.i\X220719.b\X071902.D
Level 2 ..Voa6.i\X220719.b\X071903.D
Level 3 ..Voa6.i\X220719.b\X071904.D
Level 4 ..Voa6.i\X220719.b\X071905.D
Level 5 ..Voa6.i\X220719.b\X071906.D
Level 6 ..Voa6.i\X220719.b\X071907.D
Level 7 ..Voa6.i\X220719.b\X071908.D
Level 8 ..Voa6.i\X220719.b\X071909.D
Level 9 ..Voa6.i\X220719.b\X071910.D
Level 10 ..Voa6.i\X220719.b\X071911.D

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Dichlorodifluoromethane	NE 341283	3857 739202	7427 1136547	12732 NE	38222	148427	LINR	-0.00347	0.47469		0.99986	
Chloromethane	NE 337031	3959 703134	7297 1102492	13594 1500734	37005	141389	LINR	0.00105	0.46342		0.99980	
Propionitrile	NE 0.04685	0.04689 0.04773	0.05107 0.04839	0.04322 0.04906	0.04144	0.04294	AVRG		0.04640		6.88983	
Vinyl Chloride	NE 0.50451	0.55489 0.50140	0.58340 0.49744	0.49436 0.48578	0.56842	0.52845	AVRG		0.52429		6.88014	
Bromomethane	NE 257164	3413 532992	6763 802069	13133 1068317	30861	109055	LINR	-0.02742	0.33247		0.99976	
Chloroethane	NE 0.31358	0.31871 0.31044	0.34212 0.30725	0.31021 0.30357	0.35840	0.32202	AVRG		0.32070		5.64994	
Trichlorofluoromethane	NE 0.74240	0.79460 0.77510	0.87952 0.75654	0.73879 0.72528	0.85434	0.81961	AVRG		0.78735		6.86979	
Acrolein	NE 0.01514	0.01840 0.01585	0.01873 0.01488	0.01554 0.01505	0.01690	0.01630	AVRG		0.01631		8.76506	
Acetone	NE 169593	1762 331360	3509 485174	7337 633758	20021	78540	LINR	-0.12005	0.09934		0.99768	*
1,1-Dichloroethene	NE 0.39243	0.44979 0.40203	0.47002 0.39497	0.39454 0.38464	0.44374	0.42427	AVRG		0.41738		7.34470	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS22080933

RunID VOA6_413360

Volatiles Organics by Method 8260C

ICAL Start Date 19-JUL-2022 1127 **ICAL End Date** 19-JUL-2022 1456

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Isobutyl Alcohol	NE 0.05563	0.05761 0.05548	0.05786 0.05559	0.05329 0.05721	0.05282	0.05451	AVRG		0.05555		3.24430	
Acetonitrile	NE 0.05038	0.05433 0.05104	0.05949 0.04930	0.04820 0.04928	0.04730	0.04952	AVRG		0.05098		7.37463	
Allyl Chloride	NE 0.87043	0.91865 0.89062	0.89575 0.86951	0.81071 0.88679	0.78896	0.84343	AVRG		0.86387		4.87488	
Iodomethane	NE 813391	3948 1806137	9058 2818279	17343 3905197	59955	294206	QUAD	0.03933	1.79246	-0.03172	0.99991	
Acrylonitrile	NE 0.13361	0.13013 0.13802	0.12726 0.13703	0.13561 0.13954	0.12102	0.11542	AVRG		0.13085		6.30029	
Methylene Chloride	NE 346955	4801 702932	7303 1078247	16740 1463710	40888	145583	LINR	-0.01749	0.45185		0.99986	
Methyl tert-butyl ether	NE 1.22369	1.35179 1.22448	1.30218 1.22206	1.22875 1.22105	1.18813	1.17183	AVRG		1.23711		4.51341	
Carbon Disulfide	NE 1.07589	1.14212 1.08991	1.20180 1.08317	0.98938 1.07302	1.17686	1.11263	AVRG		1.10497		5.71600	
trans-1,2-Dichloroethene	NE 0.43451	0.45777 0.43639	0.45194 0.43767	0.39448 0.43557	0.47805	0.43234	AVRG		0.43986		5.15003	
Vinyl Acetate	NE 1.11301	1.13062 1.10686	1.03088 1.12408	0.95722 1.13780	0.99794	1.07050	AVRG		1.07432		6.03941	
1,1-Dichloroethane	NE 0.75448	0.75835 0.74965	0.85338 0.75001	0.72477 0.75483	0.81381	0.76849	AVRG		0.76975		5.10213	
Chloroprene	NE 0.16690	0.21590 0.17780	0.23095 0.18053	0.17755 0.17676	0.18690	0.18468	AVRG		0.18866		11.04258	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS22080933

RunID VOA6_413360

Volatiles Organics by Method 8260C

ICAL Start Date 19-JUL-2022 1127 **ICAL End Date** 19-JUL-2022 1456

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
2-Butanone	NE 0.13168	0.11904 0.13218	0.11583 0.13456	0.12216 0.13704	0.11648	0.11993	AVRG		0.12543		6.65094	
Methacrylonitrile	NE 0.32070	0.35509 0.33333	0.36384 0.33543	0.30560 0.33996	0.30364	0.30600	AVRG		0.32929		6.67277	
2,2-Dichloropropane	NE 492680	5133 1068902	10957 1641201	20343 2176392	53750	205808	LINR	-0.00496	0.68028		0.99988	
cis-1,2-Dichloroethene	NE 0.50885	0.49172 0.50016	0.51104 0.50493	0.43069 0.50547	0.52098	0.49999	AVRG		0.49709		5.27080	
Chloroform	NE 0.83760	0.83735 0.82434	0.92168 0.82894	0.76299 0.83133	0.90532	0.84083	AVRG		0.84337		5.50143	
Bromochloromethane	NE 0.27357	0.30545 0.26970	0.30730 0.27351	0.26532 0.27768	0.29021	0.27450	AVRG		0.28191		5.47324	
1,1,1-Trichloroethane	NE 0.68374	0.74347 0.71284	0.70340 0.71494	0.62292 0.70114	0.77773	0.72356	AVRG		0.70930		5.96362	
1,1-Dichloropropene	NE 0.38166	0.44685 0.40803	0.40731 0.41082	0.36152 0.39353	0.41314	0.40896	AVRG		0.40353		5.83045	
1,2-Dichloroethane	NE 0.43158	0.45202 0.42458	0.44506 0.42168	0.42796 0.41752	0.47269	0.45348	AVRG		0.43851		4.18588	
Carbon Tetrachloride	NE 0.39118	0.50908 0.41598	0.46963 0.42471	0.38975 0.40844	0.44487	0.42801	AVRG		0.43130		8.92384	
Benzene	NE 1.15995	1.25620 1.14622	1.26876 1.15552	1.10904 1.13526	1.24627	1.18606	AVRG		1.18481		4.91091	
Trichloroethene	NE 0.34061	0.35992 0.34803	0.35732 0.35175	0.32377 0.34179	0.37398	0.36156	AVRG		0.35097		4.15640	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Initial Calibration Data

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS22080933

RunID VOA6_413360

Volatiles Organics by Method 8260C

ICAL Start Date 19-JUL-2022 1127 **ICAL End Date** 19-JUL-2022 1456

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Bromodichloromethane	NE 0.42664	0.41476 0.42188	0.41935 0.43361	0.38632 0.43009	0.43854	0.42924	AVRG		0.42227		3.63023	
Methyl Methacrylate	NE 0.33810	0.35428 0.35297	0.36797 0.35384	0.32032 0.35264	0.31605	0.32716	AVRG		0.34259		5.23642	
2-Chloroethylvinyl ether	NE 223234	1850 504631	3725 819469	7768 1149192	17033	78395	LINR	0.10536	0.11870		0.99822	
1,2-Dichloropropane	NE 0.30337	0.35770 0.29927	0.28731 0.30442	0.28964 0.30096	0.32153	0.30561	AVRG		0.30776		6.87676	
2-Nitropropane	NE 0.12611	0.12797 0.13069	0.19178 0.13385	0.11350 0.13391	0.11279	0.11227	AVRG		0.13143		18.50296	*
Dibromomethane	NE 0.20622	0.21251 0.20334	0.21510 0.20760	0.19090 0.20586	0.21208	0.20478	AVRG		0.20649		3.42073	
4-Methyl-2-Pentanone	NE 0.24472	0.22983 0.24442	0.24561 0.25282	0.22592 0.25229	0.25146	0.24562	AVRG		0.24363		3.93284	
cis-1,3-Dichloropropene	NE 0.53443	0.49743 0.52810	0.50399 0.54559	0.46440 0.54209	0.52744	0.52481	AVRG		0.51870		4.97948	
Ethyl Methacrylate	NE 0.39459	0.42724 0.41348	0.44487 0.42518	0.37757 0.41767	0.36951	0.36730	AVRG		0.40416		6.92090	
Toluene	NE 1.35111	1.48534 1.35558	1.47874 1.39012	1.31998 1.34136	1.50056	1.42688	AVRG		1.40552		4.92585	
trans-1,3-Dichloropropene	NE 0.45411	0.43482 0.45430	0.34886 0.46709	0.39948 0.46507	0.40882	0.43356	AVRG		0.42957		8.93088	
2-Hexanone	NE 0.15866	0.15729 0.16217	0.14268 0.16863	0.14354 0.16860	0.15261	0.16082	AVRG		0.15722		6.02939	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Initial Calibration Data

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS22080933

RunID VOA6_413360

Volatiles Organics by Method 8260C

ICAL Start Date 19-JUL-2022 1127 **ICAL End Date** 19-JUL-2022 1456

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
1,1,2-Trichloroethane	NE 0.25236	0.26865 0.25133	0.25359 0.25533	0.25161 0.25253	0.27292	0.25536	AVRG		0.25708		3.10239	
1,3-Dichloropropane	NE 0.51727	0.53853 0.51284	0.53548 0.52419	0.47624 0.51694	0.55751	0.52730	AVRG		0.52292		4.25815	
Dibromochloromethane	NE 0.37149	0.37697 0.37484	0.36224 0.39045	0.34884 0.38784	0.35529	0.37202	AVRG		0.37111		3.72423	
Tetrachloroethene	NE 0.29942	0.33218 0.31397	0.34917 0.31997	0.30195 0.30320	0.35645	0.34172	AVRG		0.32423		6.63880	
1,2-Dibromoethane	NE 0.32860	0.33970 0.32537	0.30962 0.33375	0.29367 0.33265	0.34003	0.33026	AVRG		0.32596		4.63664	
1-Chlorohexane	NE 0.22707	0.27669 0.26138	0.25539 0.26751	0.22698 0.25288	0.26192	0.26587	AVRG		0.25508		6.79509	
Chlorobenzene	NE 0.92599	0.94815 0.93555	0.96085 0.95703	0.89814 0.93363	1.00628	0.96687	AVRG		0.94805		3.19309	
1,1,1,2-Tetrachloroethane	NE 0.34858	0.35679 0.35393	0.35956 0.36522	0.30262 0.35850	0.36041	0.35591	AVRG		0.35128		5.35668	
Ethylbenzene	NE 0.45868	0.48108 0.47563	0.48827 0.48606	0.43327 0.46961	0.51619	0.50151	AVRG		0.47892		5.02565	
m,p-Xylenes	NE 0.57839	0.55805 0.59729	0.59871 0.61406	0.56232 0.58838	0.63413	0.62999	AVRG		0.59570		4.55362	
o-Xylene	NE 0.55697	0.59290 0.57740	0.58091 0.58940	0.53642 0.57361	0.60968	0.59466	AVRG		0.57911		3.77403	
Styrene	NE 0.95759	0.91159 0.99020	0.92976 1.01045	0.83032 0.98766	0.97583	0.98950	AVRG		0.95366		5.86887	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Initial Calibration Data

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS22080933

RunID VOA6_413360

Volatiles Organics by Method 8260C

ICAL Start Date 19-JUL-2022 1127 **ICAL End Date** 19-JUL-2022 1456

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Bromoform	NE 238426	1755 516716	3730 810870	7169 1117306	20344	88254	LINR	0.02467	0.24853		0.99965	
Isopropylbenzene	NE 1.35695	1.43849 1.44809	1.47443 1.47877	1.30268 1.40439	1.54245	1.51550	AVRG		1.44020		5.26370	
1,1,2,2-Tetrachloroethane	NE 0.66696	0.78144 0.66668	0.76770 0.68892	0.65338 0.69597	0.70660	0.69246	AVRG		0.70224		6.32540	
1,2,3-Trichloropropane	NE 0.49473	0.58784 0.49603	0.58996 0.56553	0.54572 0.52662	0.53765	0.52889	AVRG		0.54144		6.44455	
trans-1,4-Dichloro-2-butene	NE 0.08441	0.08639 0.08926	0.07814 0.09300	0.07380 0.09316	0.07809	0.08014	AVRG		0.08404		8.27424	
n-Propylbenzene	NE 3.09097	3.25257 3.29325	3.29066 3.37575	2.95890 3.28483	3.57342	3.56584	AVRG		3.29846		6.00434	
Bromobenzene	NE 0.81720	0.87451 0.82902	0.85594 0.85910	0.81226 0.85431	0.91203	0.87056	AVRG		0.85388		3.65984	
1,3,5-Trimethylbenzene	NE 2.25194	2.59658 2.36457	2.46258 2.43329	2.25441 2.36654	2.59000	2.53828	AVRG		2.42869		5.38765	
2-Chlorotoluene	NE 1.93372	2.44781 1.97524	2.37660 2.01189	2.08294 2.01003	2.31087	2.13956	AVRG		2.14319		8.82358	
4-Chlorotoluene	NE 2.23415	2.65636 2.28193	2.51503 2.35478	2.21178 2.34073	2.48509	2.44971	AVRG		2.39217		6.10354	
tert-Butylbenzene	NE 1.87857	2.09660 2.01729	2.17146 2.06018	1.85260 1.99143	2.27190	2.18568	AVRG		2.05841		6.80340	
1,2,4-Trimethylbenzene	NE 2.26858	2.54200 2.34756	2.45760 2.40073	2.18686 2.36591	2.52880	2.48717	AVRG		2.39836		4.98293	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS22080933

RunID VOA6_413360

Volatiles Organics by Method 8260C

ICAL Start Date 19-JUL-2022 1127 **ICAL End Date** 19-JUL-2022 1456

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
sec-Butylbenzene	NE 2.56004	2.95435 2.79338	2.91853 2.87407	2.53800 2.77273	2.97323	2.98357	AVRG		2.81866		6.02795	
p-Isopropyltoluene	NE 2.27539	2.49491 2.44665	2.57620 2.52369	2.05158 2.45478	2.51906	2.60761	AVRG		2.43888		7.11852	
1,3-Dichlorobenzene	NE 1.33559	1.42838 1.36835	1.38167 1.40273	1.27970 1.39635	1.47031	1.42236	AVRG		1.38727		4.01099	
1,4-Dichlorobenzene	NE 1.38400	1.63964 1.39934	1.49121 1.43248	1.51626 1.42707	1.47011	1.49485	AVRG		1.47277		5.23516	
Benzyl Chloride	NE 0.39135	0.43855 0.44029	0.35095 0.47061	0.36716 0.48435	0.33474	0.36186	AVRG		0.40443		13.62917	
n-Butylbenzene	NE 1.93301	2.09569 2.10694	1.88248 2.19365	1.73548 2.12379	1.99640	2.17139	AVRG		2.02654		7.49858	
1,2-Dichlorobenzene	NE 1.20556	1.25628 1.22245	1.27315 1.26196	1.17606 1.26277	1.33041	1.27128	AVRG		1.25110		3.57355	
1,2-Dibromo-3-Chloropropane	NE 25520	270 61674	348 99187	994 141749	2347	9850	QUAD	0.00789	19.55533	-15.65262	0.99973	*
1,2,4-Trichlorobenzene	NE 0.43214	0.45967 0.47716	0.38549 0.51475	0.41755 0.51794	0.44197	0.45194	AVRG		0.45540		9.50182	
Hexachlorobutadiene	NE 0.36108	0.50564 0.42134	0.40894 0.43716	0.38476 0.43414	0.40071	0.43144	AVRG		0.42058		9.64578	
Naphthalene	NE 0.46478	0.50994 0.51932	0.48404 0.57671	0.47311 0.61432	0.48572	0.45717	AVRG		0.50946		10.49645	
1,2,3-Trichlorobenzene	NE 0.23796	0.28871 0.26010	0.23370 0.29029	0.23930 0.30074	0.24443	0.24414	AVRG		0.25993		10.08886	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS22080933

RunID VOA6_413360

Volatiles Organics by Method 8260C

ICAL Start Date 19-JUL-2022 1127 **ICAL End Date** 19-JUL-2022 1456

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Ethyl Acetate	NE 0.37468	0.40866 0.36462	0.36149 0.36571	0.38433 0.37416	0.37402	0.38793	AVRG		0.37729		3.88483	
Methyl Acrylate	NE 0.41135	NE 0.42110	0.08197 0.42509	0.18205 0.42984	0.32449	0.34779	AVRG		0.32796		39.52952	*
n-Butanol	NE 92515	245 210846	576 347477	1120 481768	5230	31323	LINR	1.40108	0.00747		0.99785	*
Ethyl Acrylate	NE 1.02705	NE 1.03586	0.33536 1.03173	0.44170 1.03664	0.52229	0.97049	AVRG		0.80014		38.58861	*
Cyclohexanone	NE 0.01354	0.02999 0.01391	0.02591 0.01452	0.01565 0.01455	0.01586	0.01385	AVRG		0.01753		34.47473	*
1,4-Dioxane	0.00383 0.00352	0.00344 0.00359	0.00432 0.00382	0.00347 0.00389	0.00372	0.00373	AVRG		0.00373		6.94690	
n-Hexane	NE 0.38690	0.44005 0.45615	0.48427 0.45806	0.38126 0.43794	0.43490	0.47909	AVRG		0.43985		8.18722	
Freon TF	NE 0.37612	0.42449 0.41014	0.45970 0.40358	0.37786 0.38444	0.46969	0.44805	AVRG		0.41712		8.52239	
Methyl Acetate	NE 0.23356	0.25878 0.23289	0.22048 0.23995	0.22103 0.24622	0.21722	0.22389	AVRG		0.23267		5.92161	
Methylcyclohexane	NE 0.69515	0.67480 0.69631	0.68095 0.70106	0.62360 0.69110	0.60827	0.66355	AVRG		0.67053		4.96855	
Isopropyl alcohol	NE 225158	3316 475723	4535 762854	7686 1075115	21076	91055	LINR	0.58093	0.01644		0.99840	
Amyl alcohol	NE NE	NE NE	NE NE	0.00150 0.00580	0.00100	0.00119	AVRG		0.00237		96.60442	*

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Initial Calibration Data

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS22080933

RunID VOA6_413360

Volatiles Organics by Method 8260C

ICAL Start Date 19-JUL-2022 1127 **ICAL End Date** 19-JUL-2022 1456

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Allyl alcohol	NE 0.01935	0.02200 0.02281	0.02421 0.02290	0.01906 0.02190	0.02175	0.02395	AVRG		0.02199		8.18722	
4-Methyl-2-pentanol	NE 0.03573	0.05681 0.04032	0.05065 0.04227	0.04072 0.04253	0.03508	0.03609	AVRG		0.04224		17.16161	*
Tert-butyl alcohol	NE 0.02887	0.03495 0.02931	0.03178 0.02975	0.02713 0.03113	0.03008	0.02915	AVRG		0.03024		7.32692	
Diethyl ether	NE 0.30552	0.35577 0.30995	0.38001 0.30402	0.32336 0.30495	0.30084	0.30367	AVRG		0.32090		8.75260	
1,3-Butadiene	NE 0.34821	0.41434 0.36545	0.39518 0.36900	0.35913 0.35842	0.42141	0.38099	AVRG		0.37913		6.82959	
Cyclohexane	NE 0.53317	0.60481 0.59663	0.62314 0.59826	0.52543 0.57664	0.60938	0.60593	AVRG		0.58593		5.87736	
alpha-Methylstyrene	NE 1.08513	1.07038 1.12750	1.08091 1.16571	0.96349 1.16247	1.14232	1.15146	AVRG		1.10549		5.83113	
Diisopropyl ether	NE 1.26380	1.39968 1.27752	1.86885 1.26796	1.23209 1.27650	1.19970	1.22713	AVRG		1.33480		15.58023	*
Dichlorofluoromethane	NE 0.83117	NE 0.83166	NE 0.79161	0.86084 0.78977	0.77145	0.83721	AVRG		0.81624		3.93915	*
Propylene oxide	NE 0.04772	0.08712 0.04576	0.10974 0.04255	0.03868 0.04249	0.05506	0.04912	AVRG		0.05758		42.17888	*
3-Methyl-1-butanol	NE 0.00447	NE 0.00494	NE 0.00549	0.00237 0.00565	0.00347	0.00444	AVRG		0.00440		26.26662	*
Butyl acrylate	NE 0.50164	0.30448 0.56732	0.59325 0.61418	0.42297 0.61867	0.44119	0.46640	AVRG		0.50334		20.95468	*

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Initial Calibration Data

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS22080933

RunID VOA6_413360

Volatiles Organics by Method 8260C

ICAL Start Date 19-JUL-2022 1127 **ICAL End Date** 19-JUL-2022 1456

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
1,2,3-Trimethylbenzene	NE 2.31984	2.92740 2.29092	3.22779 2.27588	2.21255 2.25601	2.09670	2.30114	AVRG		2.43425		15.53604	*
Ethanol	NE 0.00232	NE 0.00216	0.00334 0.00200	0.00286 0.00196	0.00237	0.00232	AVRG		0.00242		19.26668	*
tert-Butyl formate	NE 0.22700	NE 0.22636	NE 0.23607	0.18272 0.24972	0.27854	0.22563	AVRG		0.23229		12.45420	*
3,3-Dimethyl-1-butanol	NE 0.01872	NE 0.01954	NE 0.02065	NE 0.02030	0.01892	0.01905	AVRG		0.01953		4.03874	*
tert-Amyl methyl ether	NE 1.39217	2.10676 1.38747	2.26865 1.41592	1.57527 1.40512	1.57965	1.34448	AVRG		1.60839		21.19632	*
tert-Butyl ethyl ether	NE 1.34295	1.74247 1.34765	1.95381 1.34309	1.30884 1.34382	1.28219	1.29607	AVRG		1.44010		16.55837	*
tert-Amyl alcohol	NE 0.02270	0.03356 0.02264	0.02895 0.02361	0.01827 0.02454	0.02785	0.02256	AVRG		0.02496		17.98305	*
Epichlorohydrin	NE 0.01961	0.02675 0.01958	0.02118 0.02021	NE 0.01986	0.01652	0.01783	AVRG		0.02019		14.96144	*
Isoprene	NE 0.14709	0.19912 0.15073	0.26507 0.14545	0.34024 0.14053	0.20189	0.16573	AVRG		0.19510		34.67071	*
n-Amyl acetate	NE 0.39560	NE 0.41555	NE 0.45595	NE 0.47052	0.44323	0.39671	AVRG		0.42959		7.35377	*
Isopropyl acetate	NE 0.75305	NE 0.74717	0.96396 0.75576	0.66183 0.76345	0.82124	0.74749	AVRG		0.77674		11.21768	*
n-Butyl acetate	NE 0.16576	0.27205 0.16246	0.23390 0.17091	0.20429 0.16666	0.19245	0.17604	AVRG		0.19384		19.29181	*

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS22080933

RunID VOA6_413360

Volatiles Organics by Method 8260C

ICAL Start Date 19-JUL-2022 1127 **ICAL End Date** 19-JUL-2022 1456

Compound	Level 1 0.250 Level 7 50.0	Level 2 0.500 Level 8 100.0	Level 3 1.00 Level 9 150.0	Level 4 2.00 Level 10 200.0	Level 5 5.00	Level 6 20.00	Curve	b	m1	m2	%RSD or R^2	Q
Acetaldehyde	NE 0.03193	NE 0.02386	0.05959 0.02374	0.05176 0.02405	0.03872	0.03091	AVRG		0.03557		38.21836	*
Methyl Amyl Ketone	NE 0.46461	0.23961 0.50221	0.44401 0.52577	0.33336 0.52518	0.41392	0.43757	AVRG		0.43180		21.77319	*
Dimethyl Disulfide	NE 0.67315	0.69299 0.70100	0.77600 0.71236	0.57117 0.70344	0.54730	0.62588	AVRG		0.66703		10.90625	
1,2-Dichloroethylene (total)	NE 0.47168	0.47474 0.46828	0.48149 0.47130	0.41258 0.47052	0.49952	0.46616	AVRG		0.46847		4.96279	
Xylenes (total)	NE 0.53624	0.51161 0.55294	0.53945 0.56412	0.49606 0.54437	0.57109	0.56990	AVRG		0.54286		4.74421	
Dibromofluoromethane	NE 346983	4991 746005	9308 1092576	18364 1508056	40606	142500	LINR	-0.01456	0.46506		0.99958	
1,2-Dichloroethane-d4	NE 382235	5362 809230	8675 1212903	15130 1659515	40441	154444	LINR	-0.00656	0.51338		0.99986	
Toluene-d8	NE 1.21663	1.45682 1.22523	1.25577 1.14163	1.35456 1.15509	1.16759	1.25429	AVRG		1.24751		8.16353	
4-Bromofluorobenzene	NE 453323	6586 977060	11894 1441404	19061 1974506	56818	180100	LINR	-0.01650	0.43895		0.99984	

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

right solutions.
right partner.

Form 6I

Initial Calibration Verification (ICV)

Workorder

HS22080933

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

09/09/2022

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS22080933

RunID VOA6_413360

Volatiles Organics by Method 8260C

Instrument ID voa6.i ICAL Date 19-JUL-2022
Lab File ID X071915.D ICAL Time 1353
?VAL? ?VAL? Conc Units ug/L
Analysis Type VOA Level LOW

Compound	Amount Added	Amount Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachlor	50.00	48.60	97.20	80-120	
1,1,1-Trichloroeth	50.00	47.27	94.55	80-120	
1,1,2,2-Tetrachlor	50.00	47.91	95.82	80-120	
Freon TF	50.00	47.39	94.80	80-120	
Methyl Acetate	50.00	48.74	97.49	80-120	
Cyclohexane	50.00	49.16	98.32	80-120	
Methylcyclohexane	50.00	49.18	98.36	80-120	
Carbon Disulfide	100.00	94.16	94.17	80-120	
2-Hexanone	100.00	104.32	104.33	80-120	
1,1,2-Trichloroeth	50.00	47.73	95.46	80-120	
1,1-Dichloroethane	50.00	46.55	93.12	80-120	
1,1-Dichloroethene	50.00	45.69	91.38	80-120	
1,1-Dichloropropen	50.00	47.92	95.85	80-120	
1,2,3-Trichloroben	50.00	58.54	117.10	80-120	
1,2,3-Trichloropro	50.00	46.25	92.50	80-120	
1,2,4-Trichloroben	50.00	56.47	112.95	80-120	
1,2,4-Trimethylben	50.00	48.76	97.53	80-120	
1,2-Dibromo-3-Chlo	50.00	54.31	108.62	80-120	
1,2-Dibromoethane	50.00	49.55	99.12	80-120	
1,2-Dichlorobenzen	50.00	49.77	99.55	80-120	
1,2-Dichloroethane	50.00	47.21	94.43	80-120	
1,2-Dichloropropan	50.00	47.16	94.33	80-120	
1,3,5-Trimethylben	50.00	47.69	95.39	80-120	
1,3-Dichlorobenzen	50.00	49.18	98.38	80-120	
1,3-Dichloropropan	50.00	48.03	96.07	80-120	
1,4-Dichlorobenzen	50.00	48.10	96.21	80-120	
1-Chlorohexane	50.00	47.00	94.02	80-120	
2,2-Dichloropropan	50.00	48.90	97.81	80-120	
2-Butanone	100.00	106.54	106.54	80-120	
2-Chlorotoluene	50.00	45.50	91.01	80-120	
4-Chlorotoluene	50.00	47.59	95.20	80-120	
p-Isopropyltoluene	50.00	48.81	97.64	80-120	
4-Methyl-2-Pentano	100.00	101.12	101.12	80-120	
Acetone	100.00	117.86	117.87	80-120	

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS22080933

RunID VOA6_413360

Volatiles Organics by Method 8260C

Instrument ID voa6.i ICAL Date 19-JUL-2022
Lab File ID X071915.D ICAL Time 1353
?VAL? ?VAL? Conc Units ug/L
Analysis Type VOA Level LOW

Compound	Amount Added	Amount Recovered	% Recovered	Limits	Q
Acetonitrile	50.00	464.45	928.91*	80-120	
Benzene	50.00	46.73	93.48	80-120	
Bromobenzene	50.00	48.10	96.21	80-120	
Bromochloromethane	50.00	46.01	92.02	80-120	
Bromodichlorometha	50.00	48.71	97.43	80-120	
Bromoform	50.00	48.27	96.55	80-120	
Bromomethane	50.00	48.45	96.92	80-120	
Carbon Tetrachlori	50.00	45.89	91.79	80-120	
Chlorobenzene	50.00	48.25	96.51	80-120	
Chloroethane	50.00	46.05	92.11	80-120	
Chloroform	50.00	47.08	94.16	80-120	
Chloromethane	50.00	47.90	95.81	80-120	
cis-1,2-Dichloroet	50.00	48.42	96.85	80-120	
cis-1,3-Dichloropr	50.00	50.10	100.21	80-120	
Dibromochlorometha	50.00	49.75	99.50	80-120	
Dibromomethane	50.00	48.27	96.55	80-120	
Dichlorodifluorome	50.00	49.07	98.16	80-120	
Ethylbenzene	50.00	48.53	97.07	80-120	
Hexachlorobutadien	50.00	51.08	102.17	80-120	
Isopropylbenzene	50.00	48.21	96.42	80-120	
m,p-Xylenes	100.00	99.09	99.09	80-120	
Methyl tert-butyl	50.00	46.68	93.37	80-120	
Methylene Chloride	50.00	47.96	95.92	80-120	
n-Butylbenzene	50.00	50.58	101.18	80-120	
n-Propylbenzene	50.00	48.36	96.73	80-120	
Naphthalene	50.00	59.28	118.57	80-120	
o-Xylene	50.00	48.22	96.45	80-120	
sec-Butylbenzene	50.00	47.71	95.44	80-120	
Styrene	50.00	50.47	100.96	80-120	
tert-Butylbenzene	50.00	47.36	94.73	80-120	
Tetrachloroethene	50.00	47.11	94.22	80-120	
Toluene	50.00	47.23	94.48	80-120	
trans-1,2-Dichloro	50.00	47.08	94.17	80-120	
trans-1,3-Dichloro	50.00	50.76	101.54	80-120	

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS22080933

RunID VOA6_413360

Volatiles Organics by Method 8260C

Instrument ID voa6.i ICAL Date 19-JUL-2022
Lab File ID X071915.D ICAL Time 1353
?VAL? ?VAL? Conc Units ug/L
Analysis Type VOA Level LOW

Compound	Amount Added	Amount Recovered	% Recovered	Limits	Q
Trichloroethene	50.00	47.65	95.31	80-120	
Trichlorofluoromet	50.00	47.02	94.04	80-120	
Vinyl Chloride	50.00	45.66	91.34	80-120	
1,2-Dichloroethyle	50.00	95.51	191.02*	80-120	
Xylenes (total)	150.00	147.31	98.21	80-120	
Tert-butyl alcohol	1000.00	983.68	98.37	80-120	
Dibromofluorometha	50.00	51.93	103.87	80-120	
1,2-Dichloroethane	50.00	50.89	101.79	80-120	
Toluene-d8	50.00	50.01	100.04	80-120	
4-Bromofluorobenze	50.00	52.16	104.34	80-120	
Dibromofluorometha	50.00	51.93	103.87	0-130	
1,2-Dichloroethane	50.00	50.89	101.79	0-130	
Toluene-d8	50.00	50.01	100.04	0-130	
4-Bromofluorobenze	50.00	52.16	104.34	0-130	

right solutions.
right partner.

Form 7

Continuing Calibration Verification (CCV)

Workorder

HS22080933

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

09/09/2022

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS22080933

RunID VOA6_415491

Volatiles Organics by Method 8260C

Instrument ID voa6.i Injection Date 19-AUG-2022 1117
Lab File ID X081903.D ICAL Date(s) 19-JUL-2022 19-JUL-2022
Analysis Type WATER ICAL Times 1127 1456
Lab Sample ID CCV Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dibromofluoromethane	50.0	52.59558	0.49597	0.100	-5.19116	20.0	Linear	
1,2-Dichloroethane-d4	50.0	53.88877	0.55668	0.100	-7.77754	20.0	Linear	
Toluene-d8	1.24751	1.28575	1.28575	0.100	-3.06505	20.0	Averaged	
4-Bromofluorobenzene	50.0	53.05512	0.47301	0.100	-6.11024	20.0	Linear	
1,1,1,2-Tetrachloroethane	0.35128	0.36855	0.36855	0.100	-4.91790	20.0	Averaged	
1,1,1-Trichloroethane	0.70930	0.70830	0.70830	0.100	0.14124	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.70224	0.72114	0.72114	0.300	-2.69247	20.0	Averaged	
1,1,2-Trichloroethane	0.25708	0.25525	0.25525	0.100	0.71118	20.0	Averaged	
1,1-Dichloroethane	0.76975	0.74563	0.74563	0.200	3.13323	20.0	Averaged	
1,1-Dichloroethene	0.41738	0.35919	0.35919	0.100	13.94164	20.0	Averaged	
1,1-Dichloropropene	0.40353	0.41114	0.41114	0.100	-1.88450	20.0	Averaged	
1,2,3-Trichlorobenzene	0.25993	0.29504	0.29504	0.010	-13.50904	20.0	Averaged	
1,2,3-Trichloropropane	0.54144	0.54120	0.54120	0.100	0.04545	20.0	Averaged	
1,2,4-Trichlorobenzene	0.45540	0.50990	0.50990	0.100	-11.96719	20.0	Averaged	
1,2,4-Trimethylbenzene	2.39836	2.61482	2.61482	0.100	-9.02548	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	56.49236	0.06028	0.040	-12.98472	20.0	Quadratic	
1,2-Dibromoethane	0.32596	0.32479	0.32479	0.100	0.35905	20.0	Averaged	
1,2-Dichlorobenzene	1.25110	1.33905	1.33905	0.400	-7.02944	20.0	Averaged	
1,2-Dichloroethane	0.43851	0.41755	0.41755	0.100	4.78033	20.0	Averaged	
1,2-Dichloropropane	0.30776	0.29748	0.29748	0.100	3.33962	20.0	Averaged	
1,3,5-Trimethylbenzene	2.42869	2.61878	2.61878	0.100	-7.82697	20.0	Averaged	
1,3-Dichlorobenzene	1.38727	1.48572	1.48572	0.600	-7.09656	20.0	Averaged	
1,3-Dichloropropane	0.52292	0.52021	0.52021	0.100	0.51999	20.0	Averaged	
1,4-Dichlorobenzene	1.47277	1.53607	1.53607	0.400	-4.29803	20.0	Averaged	
2,2-Dichloropropane	50.0	52.03375	0.71132	0.100	-4.06750	20.0	Linear	
2-Butanone	0.12543	0.12869	0.12869	0.100	-2.59331	20.0	Averaged	
2-Chlorotoluene	2.14319	2.17233	2.17233	0.100	-1.35989	20.0	Averaged	
2-Hexanone	0.15722	0.17619	0.17619	0.100	-12.06340	20.0	Averaged	
4-Chlorotoluene	2.39217	2.52049	2.52049	0.100	-5.36422	20.0	Averaged	
p-Isopropyltoluene	2.43888	2.75494	2.75494	0.100	-12.95938	20.0	Averaged	
4-Methyl-2-Pentanone	0.24363	0.26556	0.26556	0.100	-9.00258	20.0	Averaged	
Acetone	100	98.33704	0.10365	0.100	1.66296	20.0	Linear	
Benzene	1.18481	1.12340	1.12340	0.500	5.18276	20.0	Averaged	
Bromobenzene	0.85388	0.87883	0.87883	0.100	-2.92178	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS22080933

RunID VOA6_415491

Volatiles Organics by Method 8260C

Instrument ID voa6.i Injection Date 19-AUG-2022 1117
Lab File ID X081903.D ICAL Date(s) 19-JUL-2022 19-JUL-2022
Analysis Type WATER ICAL Times 1127 1456
Lab Sample ID CCV Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Bromochloromethane	0.28191	0.25831	0.25831	0.100	8.37115	20.0	Averaged	
Bromodichloromethane	0.42227	0.41870	0.41870	0.200	0.84463	20.0	Averaged	
Bromoform	50.0	49.97906	0.24229	0.100	0.04188	20.0	Linear	
Bromomethane	50.0	45.12080	0.30914	0.100	9.75840	20.0	Linear	
Carbon Disulfide	1.10497	1.02472	1.02472	0.100	7.26337	20.0	Averaged	
Carbon Tetrachloride	0.43130	0.41408	0.41408	0.100	3.99093	20.0	Averaged	
Chlorobenzene	0.94805	0.95983	0.95983	0.500	-1.24229	20.0	Averaged	
Chloroethane	0.32070	0.28261	0.28261	0.100	11.87573	20.0	Averaged	
Chloroform	0.84337	0.82070	0.82070	0.200	2.68805	20.0	Averaged	
Chloromethane	50.0	48.98697	0.45354	0.100	2.02606	20.0	Linear	
cis-1,2-Dichloroethene	0.49709	0.49071	0.49071	0.100	1.28404	20.0	Averaged	
cis-1,3-Dichloropropene	0.51870	0.52631	0.52631	0.200	-1.46680	20.0	Averaged	
Dibromochloromethane	0.37111	0.37704	0.37704	0.100	-1.59835	20.0	Averaged	
Dibromomethane	0.20649	0.19958	0.19958	0.100	3.34690	20.0	Averaged	
Dichlorodifluoromethane	50.0	47.80735	0.45552	0.100	4.38530	20.0	Linear	
Ethylbenzene	0.47892	0.49823	0.49823	0.100	-4.03183	20.0	Averaged	
Hexachlorobutadiene	0.42058	0.45330	0.45330	0.100	-7.78120	20.0	Averaged	
Isopropylbenzene	1.44020	1.56359	1.56359	0.100	-8.56771	20.0	Averaged	
m,p-Xylenes	0.59570	0.62813	0.62813	0.100	-5.44325	20.0	Averaged	
Methylene Chloride	50.0	48.83828	0.44926	0.100	2.32344	20.0	Linear	
n-Butylbenzene	2.02654	2.41372	2.41372	0.500	-19.10565	20.0	Averaged	
n-Propylbenzene	3.29846	3.65662	3.65662	0.100	-10.85817	20.0	Averaged	
Naphthalene	0.50946	0.59235	0.59235	0.200	-16.27108	20.0	Averaged	
o-Xylene	0.57911	0.59604	0.59604	0.300	-2.92365	20.0	Averaged	
sec-Butylbenzene	2.81866	3.15024	3.15024	0.100	-11.76382	20.0	Averaged	
Styrene	0.95366	1.01270	1.01270	0.300	-6.19165	20.0	Averaged	
tert-Butylbenzene	2.05841	2.26308	2.26308	0.100	-9.94297	20.0	Averaged	
Tetrachloroethene	0.32423	0.31929	0.31929	0.200	1.52325	20.0	Averaged	
Toluene	1.40552	1.38284	1.38284	0.400	1.61355	20.0	Averaged	
trans-1,2-Dichloroethene	0.43986	0.43183	0.43183	0.100	1.82589	20.0	Averaged	
trans-1,3-Dichloropropene	0.42957	0.44589	0.44589	0.100	-3.80043	20.0	Averaged	
Trichloroethene	0.35097	0.33846	0.33846	0.200	3.56524	20.0	Averaged	
Trichlorofluoromethane	0.78735	0.72741	0.72741	0.100	7.61372	20.0	Averaged	
Vinyl Chloride	0.52429	0.46665	0.46665	0.100	10.99410	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS22080933

RunID VOA6_415491

Volatiles Organics by Method 8260C

Instrument ID voa6.i Injection Date 19-AUG-2022 2106
Lab File ID X081931.D ICAL Date(s) 19-JUL-2022 19-JUL-2022
Analysis Type WATER ICAL Times 1127 1456
Lab Sample ID CCV-END Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Dibromofluoromethane	50.0	55.26363	0.52079	0.100	-10.52726	50.0	Linear	
1,2-Dichloroethane-d4	50.0	55.80349	0.57634	0.100	-11.60699	50.0	Linear	
Toluene-d8	1.24751	1.27370	1.27370	0.100	-2.09926	50.0	Averaged	
4-Bromofluorobenzene	50.0	53.24684	0.47469	0.100	-6.49368	50.0	Linear	
1,1,1,2-Tetrachloroethane	0.35128	0.36621	0.36621	0.100	-4.25168	50.0	Averaged	
1,1,1-Trichloroethane	0.70930	0.73003	0.73003	0.100	-2.92215	50.0	Averaged	
1,1,2,2-Tetrachloroethane	0.70224	0.70231	0.70231	0.300	-0.01077	50.0	Averaged	
1,1,2-Trichloroethane	0.25708	0.25612	0.25612	0.100	0.37281	50.0	Averaged	
1,1-Dichloroethane	0.76975	0.73147	0.73147	0.200	4.97389	50.0	Averaged	
1,1-Dichloroethene	0.41738	0.37972	0.37972	0.100	9.02274	50.0	Averaged	
1,1-Dichloropropene	0.40353	0.40865	0.40865	0.100	-1.26864	50.0	Averaged	
1,2,3-Trichlorobenzene	0.25993	0.25980	0.25980	0.010	0.04795	50.0	Averaged	
1,2,3-Trichloropropane	0.54144	0.56819	0.56819	0.100	-4.94037	50.0	Averaged	
1,2,4-Trichlorobenzene	0.45540	0.46994	0.46994	0.100	-3.19244	50.0	Averaged	
1,2,4-Trimethylbenzene	2.39836	2.47970	2.47970	0.100	-3.39156	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	52.08465	0.05531	0.040	-4.16930	50.0	Quadratic	
1,2-Dibromoethane	0.32596	0.32620	0.32620	0.100	-0.07261	50.0	Averaged	
1,2-Dichlorobenzene	1.25110	1.29113	1.29113	0.400	-3.19962	50.0	Averaged	
1,2-Dichloroethane	0.43851	0.42976	0.42976	0.100	1.99560	50.0	Averaged	
1,2-Dichloropropane	0.30776	0.29793	0.29793	0.100	3.19226	50.0	Averaged	
1,3,5-Trimethylbenzene	2.42869	2.51587	2.51587	0.100	-3.58956	50.0	Averaged	
1,3-Dichlorobenzene	1.38727	1.42086	1.42086	0.600	-2.42103	50.0	Averaged	
1,3-Dichloropropane	0.52292	0.51892	0.51892	0.100	0.76598	50.0	Averaged	
1,4-Dichlorobenzene	1.47277	1.47110	1.47110	0.400	0.11349	50.0	Averaged	
2,2-Dichloropropane	50.0	48.39046	0.66175	0.100	3.21907	50.0	Linear	
2-Butanone	0.12543	0.13906	0.13906	0.100	-10.86420	50.0	Averaged	
2-Chlorotoluene	2.14319	2.08717	2.08717	0.100	2.61369	50.0	Averaged	
2-Hexanone	0.15722	0.18031	0.18031	0.100	-14.68383	50.0	Averaged	
4-Chlorotoluene	2.39217	2.40978	2.40978	0.100	-0.73618	50.0	Averaged	
p-Isopropyltoluene	2.43888	2.62065	2.62065	0.100	-7.45331	50.0	Averaged	
4-Methyl-2-Pentanone	0.24363	0.26966	0.26966	0.100	-10.68304	50.0	Averaged	
Acetone	100	96.18041	0.10151	0.100	3.81959	50.0	Linear	
Benzene	1.18481	1.13692	1.13692	0.500	4.04189	50.0	Averaged	
Bromobenzene	0.85388	0.84556	0.84556	0.100	0.97421	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS22080933

RunID VOA6_415491

Volatiles Organics by Method 8260C

Instrument ID voa6.i Injection Date 19-AUG-2022 2106
Lab File ID X081931.D ICAL Date(s) 19-JUL-2022 19-JUL-2022
Analysis Type WATER ICAL Times 1127 1456
Lab Sample ID CCV-END Quant Type ISTD

Compound	$\overline{RRF}$ / Amount	RF50	CCV RRF50	Min RRF	%D / %Drift	Max %D / %Drift	Curve Type	Q
Bromochloromethane	0.28191	0.26177	0.26177	0.100	7.14653	50.0	Averaged	
Bromodichloromethane	0.42227	0.42478	0.42478	0.200	-0.59394	50.0	Averaged	
Bromoform	50.0	49.57921	0.24030	0.100	0.84159	50.0	Linear	
Bromomethane	50.0	49.03104	0.33514	0.100	1.93792	50.0	Linear	
Carbon Disulfide	1.10497	1.02074	1.02074	0.100	7.62363	50.0	Averaged	
Carbon Tetrachloride	0.43130	0.41569	0.41569	0.100	3.61873	50.0	Averaged	
Chlorobenzene	0.94805	0.94873	0.94873	0.500	-0.07108	50.0	Averaged	
Chloroethane	0.32070	0.30212	0.30212	0.100	5.79253	50.0	Averaged	
Chloroform	0.84337	0.84613	0.84613	0.200	-0.32648	50.0	Averaged	
Chloromethane	50.0	46.36616	0.42925	0.100	7.26769	50.0	Linear	
cis-1,2-Dichloroethene	0.49709	0.49238	0.49238	0.100	0.94732	50.0	Averaged	
cis-1,3-Dichloropropene	0.51870	0.51329	0.51329	0.200	1.04184	50.0	Averaged	
Dibromochloromethane	0.37111	0.37507	0.37507	0.100	-1.06760	50.0	Averaged	
Dibromomethane	0.20649	0.20261	0.20261	0.100	1.87914	50.0	Averaged	
Dichlorodifluoromethane	50.0	46.25326	0.44077	0.100	7.49349	50.0	Linear	
Ethylbenzene	0.47892	0.49330	0.49330	0.100	-3.00133	50.0	Averaged	
Hexachlorobutadiene	0.42058	0.42882	0.42882	0.100	-1.95894	50.0	Averaged	
Isopropylbenzene	1.44020	1.55829	1.55829	0.100	-8.20001	50.0	Averaged	
m,p-Xylenes	0.59570	0.62096	0.62096	0.100	-4.24070	50.0	Averaged	
Methylene Chloride	50.0	49.47282	0.45499	0.100	1.05435	50.0	Linear	
n-Butylbenzene	2.02654	2.25037	2.25037	0.500	-11.04536	50.0	Averaged	
n-Propylbenzene	3.29846	3.51573	3.51573	0.100	-6.58683	50.0	Averaged	
Naphthalene	0.50946	0.48809	0.48809	0.200	4.19384	50.0	Averaged	
o-Xylene	0.57911	0.59502	0.59502	0.300	-2.74807	50.0	Averaged	
sec-Butylbenzene	2.81866	3.02813	3.02813	0.100	-7.43184	50.0	Averaged	
Styrene	0.95366	0.99804	0.99804	0.300	-4.65389	50.0	Averaged	
tert-Butylbenzene	2.05841	2.18355	2.18355	0.100	-6.07948	50.0	Averaged	
Tetrachloroethene	0.32423	0.31976	0.31976	0.200	1.37665	50.0	Averaged	
Toluene	1.40552	1.37814	1.37814	0.400	1.94811	50.0	Averaged	
trans-1,2-Dichloroethene	0.43986	0.43520	0.43520	0.100	1.05791	50.0	Averaged	
trans-1,3-Dichloropropene	0.42957	0.44157	0.44157	0.100	-2.79425	50.0	Averaged	
Trichloroethene	0.35097	0.35594	0.35594	0.200	-1.41651	50.0	Averaged	
Trichlorofluoromethane	0.78735	0.76241	0.76241	0.100	3.16843	50.0	Averaged	
Vinyl Chloride	0.52429	0.47363	0.47363	0.100	9.66419	50.0	Averaged	

right solutions.
right partner.

Form 8

Internal Standard Area and RT Summary

Workorder

HS22080933

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

09/09/2022

Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

RunID
VOA6_415491

		IS1		IS2		IS3		IS4	
Sample ID	File ID	Area	RT	Area	RT	Area	RT	Area	RT
12-HOUR STD (CCV)	X081903	622775 #	4.19 #	928349 #	4.97 #	852660 #	7.67 #	426129 #	9.66 #
CCB	X081904	667126	4.19	947720	4.97	823254	7.67	360049	9.67
VLCSW-220819	X081905	601746	4.19	892670	4.97	818800	7.67	391283	9.67
VBLKW-220819	X081907	644792	4.19	929319	4.97	819045	7.67	368319	9.67
HS22080933-09	X081908	627318	4.19	902057	4.97	785287	7.67	330834	9.67
HS22080933-08	X081909	633449	4.19	895717	4.97	790731	7.67	344321	9.67
HS22080933-07	X081910	618516	4.19	879877	4.97	757411	7.67	338427	9.67
HS22080933-01	X081911	612975	4.19	878095	4.97	767550	7.67	332585	9.67
HS22080933-06	X081912	620642	4.19	893355	4.97	788558	7.67	348679	9.67
HS22080933-05	X081913	620279	4.19	890299	4.97	784881	7.67	347826	9.67
HS22080933-02	X081914	627554	4.19	907933	4.97	784121	7.67	341329	9.67
HS22080933-04	X081915	621180	4.19	888272	4.97	786656	7.67	346450	9.67
HS22080933-03	X081916	619950	4.19	889487	4.97	785005	7.67	341491	9.67
HS22080933-01MS	X081917	624696	4.19	889570	4.97	805144	7.67	391626	9.66
HS22080933-01MSD	X081918	641483	4.19	919434	4.97	834524	7.67	412166	9.67
HS22080933-04	X081919	633783	4.19	899034	4.97	784365	7.67	350126	9.67
HS22080933-03	X081930	613762	4.19	877446	4.97	760022	7.67	332207	9.67
CCV-END	X081931	566958	4.19	863314	4.97	814831	7.67	416707	9.67

IS1 - Pentafluorobenzene IS2 - 1,4-Difluorobenzene IS3 - Chlorobenzene-d5 IS4 - 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of 12H STD IS Area
AREA LOWER LIMIT = - 50% of 12H STD IS Area
RT - Retention Time IS - Internal Standard

RT UPPER LIMIT = + 0.50 of 12H STD IS RT
RT LOWER LIMIT = - 0.50 of 12H STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

right solutions.
right partner.

Analysis Run Log

Workorder

HS22080933

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

09/09/2022

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

RunID
VOA6_413360

Instrument ID VOA6 **Matrix** R413360 **Start Date** 07/19/2022 **EndDate** 07/19/2022

Client Sample ID	Type	Lab Sample ID	DF	Analysis Date	File ID
BFB	TUNE	BFB	1	07/19/22 11:06	X071901.D
VSTD000.25	ICAL1	VSTD000.25	1	07/19/22 11:27	X071902.D
VSTD000.5	ICAL2	VSTD000.5	1	07/19/22 12:08	X071903.D
VSTD001	ICAL3	VSTD001	1	07/19/22 12:29	X071904.D
VSTD002	ICAL4	VSTD002	1	07/19/22 12:50	X071905.D
VSTD005	ICAL5	VSTD005	1	07/19/22 13:11	X071906.D
VSTD020	ICAL6	VSTD020	1	07/19/22 13:32	X071907.D
VSTD050	ICAL7	VSTD050	1	07/19/22 13:53	X071908.D
VSTD100	ICAL8	VSTD100	1	07/19/22 14:14	X071909.D
VSTD150	ICAL9	VSTD150	1	07/19/22 14:35	X071910.D
VSTD200	ICAL	VSTD200	1	07/19/22 14:56	X071911.D
CCV	ICV	CCV	1	07/19/22 16:20	X071915.D

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

RunID
VOA6_415491

Instrument ID VOA6 **Matrix** R415491 **Start Date** 08/19/2022 **EndDate** 08/19/2022

Client Sample ID	Type	Lab Sample ID	DF	Analysis Date	File ID
BFB	TUNE	BFB	1	08/19/22 10:35	X081901.D
CCV	CCV	CCV	1	08/19/22 11:17	X081903.D
CCB	CCB	CCB	1	08/19/22 11:38	X081904.D
VLCSW-220819	LCS	VLCSW-220819	1	08/19/22 11:59	X081905.D
VBLKW-220819	MBLK	VBLKW-220819	1	08/19/22 12:41	X081907.D
Trip Blank	SAMP	HS22080933-09	1	08/19/22 13:02	X081908.D
CO6_081522	SAMP	HS22080933-08	1	08/19/22 13:23	X081909.D
18CPTMW15_081522	SAMP	HS22080933-07	1	08/19/22 13:44	X081910.D
18CPTMW03SW_081522	SAMP	HS22080933-01	1	08/19/22 14:05	X081911.D
18WW25_081522	SAMP	HS22080933-06	1	08/19/22 14:26	X081912.D
MW18_081522	SAMP	HS22080933-05	1	08/19/22 14:47	X081913.D
1824DPTMW05_081522	SAMP	HS22080933-02	25	08/19/22 15:08	X081914.D
MW14_081522	SAMP	HS22080933-04	25	08/19/22 15:30	X081915.D
120_081522	SAMP	HS22080933-03	50	08/19/22 15:51	X081916.D
HS22080933-01MS	MS	HS22080933-01MS	1	08/19/22 16:12	X081917.D
HS22080933-01MSD	MSD	HS22080933-01MSD	1	08/19/22 16:33	X081918.D
MW14_081522	SAMP	HS22080933-04	250	08/19/22 16:54	X081919.D
ZZZZZZZZZZ	SAMP	HS22080927-11	1	08/19/22 17:36	X081921.D
ZZZZZZZZZZ	SAMP	HS22080927-03	1	08/19/22 17:57	X081922.D
ZZZZZZZZZZ	SAMP	HS22080927-04	1	08/19/22 18:18	X081923.D
ZZZZZZZZZZ	SAMP	HS22080927-06	1	08/19/22 18:39	X081924.D
ZZZZZZZZZZ	SAMP	HS22080927-07	1	08/19/22 19:00	X081925.D
ZZZZZZZZZZ	SAMP	HS22080927-08	1	08/19/22 19:21	X081926.D
ZZZZZZZZZZ	SAMP	HS22080927-09	1	08/19/22 19:42	X081927.D
ZZZZZZZZZZ	SAMP	HS22080927-10	1	08/19/22 20:03	X081928.D
ZZZZZZZZZZ	SAMP	HS22080927-05	1	08/19/22 20:24	X081929.D
120_081522	SAMP	HS22080933-03	10	08/19/22 20:45	X081930.D
CCV-END	CCV_END	CCV-END	1	08/19/22 21:06	X081931.D

right solutions.
right partner.

Raw Data VOA6 413360

Workorder

HS22080933

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

09/09/2022

Data File: \\NAHSTWS005\Target\chem\Voa6.i\X220719.b\X071901.D Page 1
Report Date: 19-Jul-2022 11:27

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\Voa6.i\X220719.b\X071901.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 19-JUL-2022 11:06
Operator : PC Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : HS22052000V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\Voa6.i\X220719.b\bfb.m
Meth Date : 14-Jun-2022 12:47 Linh.Pham Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7051

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/l)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
8.698	8.889	(0.000)	95	32320			0.00- 100.00	100.00
8.698	8.889	(0.000)	50	5179			15.00- 40.00	16.02
8.698	8.889	(0.000)	75	16180			30.00- 60.00	50.06
8.698	8.889	(0.000)	96	2034			5.00- 9.00	6.29
8.698	8.889	(0.000)	173	170			0.00- 2.00	0.53
8.698	8.889	(0.000)	174	32248			50.00- 0.00	99.78
8.698	8.889	(0.000)	175	2068			5.00- 9.00	6.41
8.698	8.889	(0.000)	176	32048			95.00- 101.00	99.38
8.698	8.889	(0.000)	177	1757			5.00- 9.00	5.48

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.02
75	30.00 - 60.00% of mass 95	50.06
96	5.00 - 9.00% of mass 95	6.29
173	Less than 2.00% of mass 174	0.53 (0.53)
174	Greater than 50.00% of mass 95	99.78
175	5.00 - 9.00% of mass 174	6.40 (6.41)
176	95.00 - 101.00% of mass 174	99.16 (99.38)
177	5.00 - 9.00% of mass 176	5.44 (5.48)

Data File: X071901.D
Spectrum: Scan 2165 (8.70)
Location of Maximum: 95.00
Number of points: 83

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	403	61.90	879	87.90	1444	128.80	207
37.10	1658	63.00	1157	90.90	136	129.80	301
38.10	1647	64.00	301	92.00	847	137.00	117
39.00	908	65.00	56	93.10	1045	139.00	107
40.10	707	65.80	80	94.00	3846	141.00	494
41.00	93	67.00	143	95.00	32320	141.90	76
44.00	900	68.00	3426	96.00	2034	142.90	211
45.00	387	69.10	3149	97.00	70	147.80	82
47.10	310	70.10	316	103.70	114	149.70	61
47.80	125	71.90	395	104.10	107	155.10	64
48.30	97	72.90	1771	104.80	86	156.80	105
49.00	1195	74.00	5297	105.90	90	170.00	130
50.00	5179	75.00	16180	106.60	55	172.90	170
51.00	1985	76.00	1271	109.10	59	173.90	32248
52.20	111	77.00	406	109.90	93	175.00	2068
54.90	93	77.90	329	112.80	52	175.90	32048
56.10	488	78.90	1240	115.90	314	177.00	1757
56.90	1104	79.80	364	116.80	350	177.90	82
58.00	145	80.90	1270	118.00	96	186.10	221
60.00	255	81.90	202	118.80	198	262.00	64
61.00	1500	86.90	1378	128.00	111		

Data File: \\NAHSTWS005\Target\chem\Voa6.i\X220719.b\X071901.D Page 1

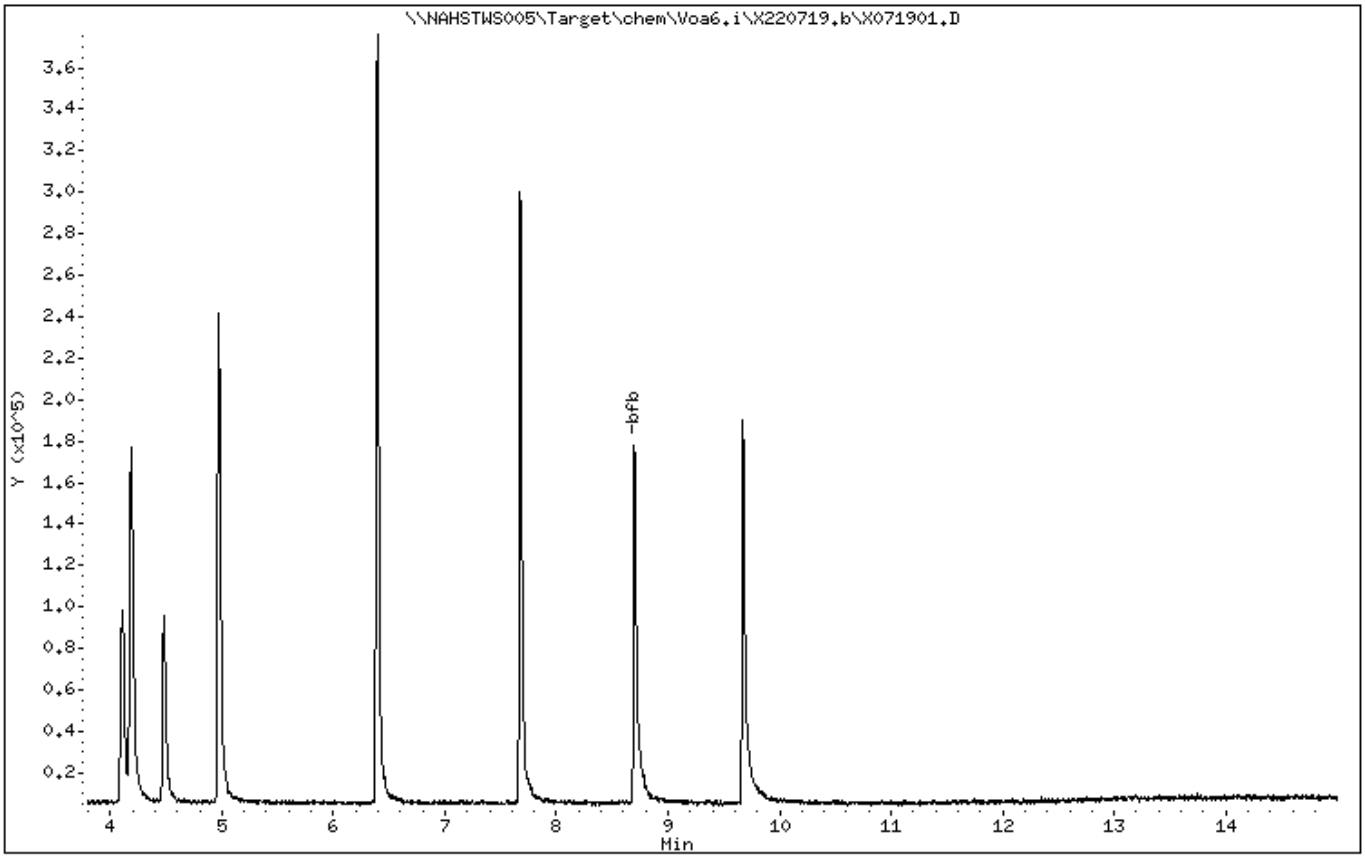
Date : 19-JUL-2022 11:06

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\Voa6.i\X220719.b\X071901.D Page 2

Date : 19-JUL-2022 11:06

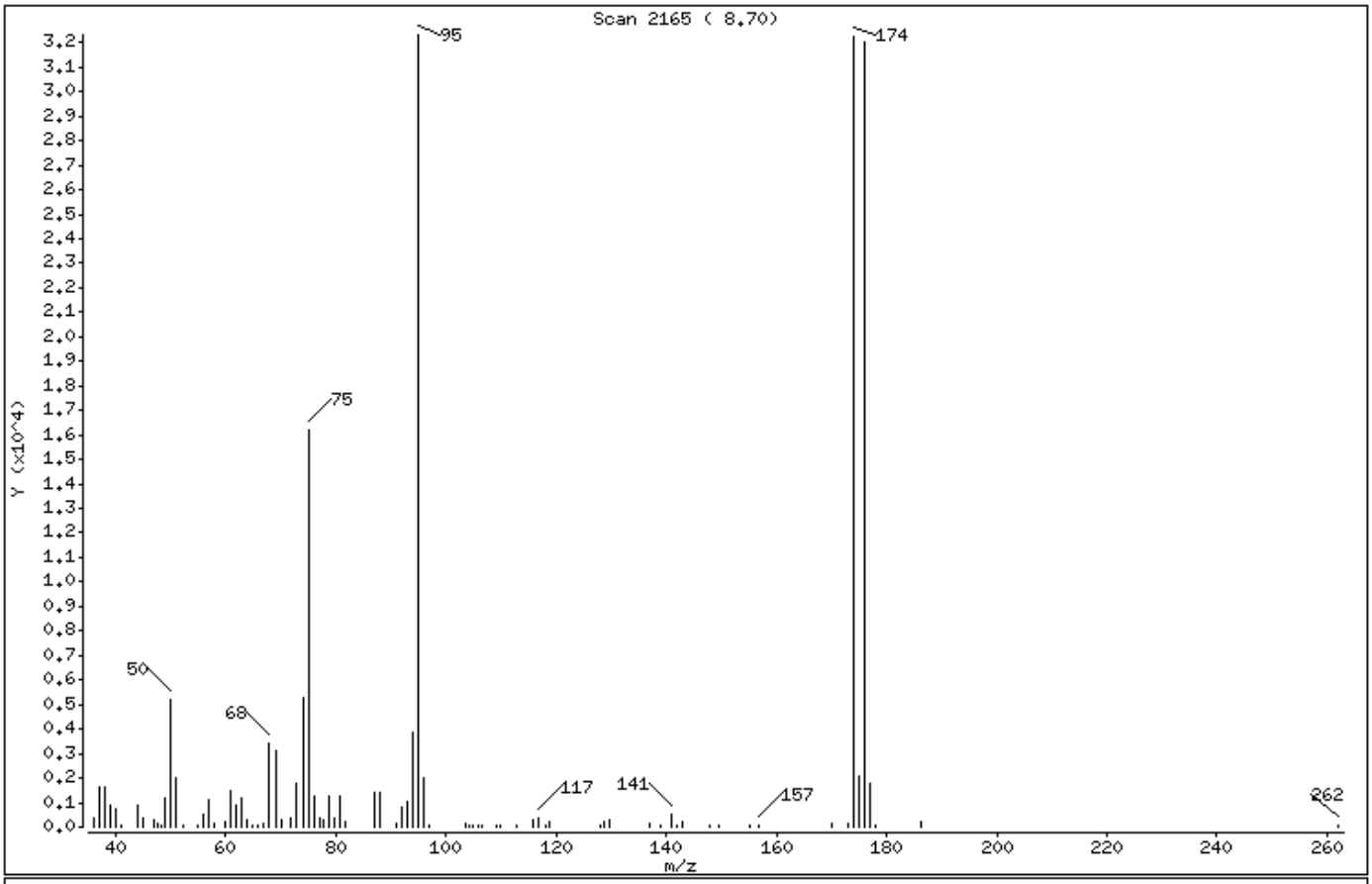
Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.02
75	30.00 - 60.00% of mass 95	50.06
96	5.00 - 9.00% of mass 95	6.29
173	Less than 2.00% of mass 174	0.53 (0.53)
174	Greater than 50.00% of mass 95	99.78
175	5.00 - 9.00% of mass 174	6.40 (6.41)
176	95.00 - 101.00% of mass 174	99.16 (99.38)
177	5.00 - 9.00% of mass 176	5.44 (5.48)

Data File: \\NAHSTWS005\Target\chem\Voa6.i\X220719.b\X071901.D Page 3

Date : 19-JUL-2022 11:06

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

Data File: X071901.D
Spectrum: Scan 2165 (8.70)
Location of Maximum: 95.00
Number of points: 83

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	403	61.90	879	87.90	1444	128.80	207
37.10	1658	63.00	1157	90.90	136	129.80	301
38.10	1647	64.00	301	92.00	847	137.00	117
39.00	908	65.00	56	93.10	1045	139.00	107
40.10	707	65.80	80	94.00	3846	141.00	494
41.00	93	67.00	143	95.00	32320	141.90	76
44.00	900	68.00	3426	96.00	2034	142.90	211
45.00	387	69.10	3149	97.00	70	147.80	82
47.10	310	70.10	316	103.70	114	149.70	61
47.80	125	71.90	395	104.10	107	155.10	64
48.30	97	72.90	1771	104.80	86	156.80	105
49.00	1195	74.00	5297	105.90	90	170.00	130
50.00	5179	75.00	16180	106.60	55	172.90	170
51.00	1985	76.00	1271	109.10	59	173.90	32248
52.20	111	77.00	406	109.90	93	175.00	2068
54.90	93	77.90	329	112.80	52	175.90	32048
56.10	488	78.90	1240	115.90	314	177.00	1757
56.90	1104	79.80	364	116.80	350	177.90	82
58.00	145	80.90	1270	118.00	96	186.10	221
60.00	255	81.90	202	118.80	198	262.00	64
61.00	1500	86.90	1378	128.00	111		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071902.D Page 1
Report Date: 08-Sep-2022 12:20

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071902.D
Lab Smp Id: VSTD000.25 Client Smp ID: VSTD000.25
Inj Date : 19-JUL-2022 11:27
Operator : PC Inst ID: voa6.i
Smp Info : VSTD000.25;VSTD000.25;1;1;
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\8260W.m
Meth Date : 08-Sep-2022 12:20 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 14:56 Cal File: X071911.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.185	4.185	(1.000)	835764	50.0000	
* 36 1,4-Difluorobenzene	114	4.969	4.969	(1.000)	1243619	50.0000	
* 47 Chlorobenzene-d5	117	7.675	7.675	(1.000)	1125944	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.666	9.666	(1.000)	516358	50.0000	
$ 30 Dibromofluoromethane	113	4.110	4.110	(0.982)	2821	0.25000	(a)
$ 35 1,2-Dichloroethane-d4	65	4.489	4.489	(1.073)	3098	0.25000	0.03(aM)
$ 48 Toluene-d8	98	6.404	6.404	(0.834)	8187	0.25000	0.29(aM)
$ 69 4-Bromofluorobenzene	95	8.717	8.717	(1.136)	4127	0.25000	(aM)
60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.013)	2061	0.25000	0.26(a)
31 1,1,1-Trichloroethane	97	4.091	4.091	(0.978)	2586	0.25000	0.21(a)
68 1,1,2,2-Tetrachloroethane	83	8.852	8.852	(0.916)	2066	0.25000	0.28(aM)
53 1,1,2-Trichloroethane	83	6.854	6.854	(0.893)	1586	0.25000	0.27(a)
22 1,1-Dichloroethane	63	2.933	2.933	(0.701)	3255	0.25000	0.25(Ta)
11 1,1-Dichloroethene	96	1.921	1.921	(0.459)	1876	0.25000	0.26(a)
32 1,1-Dichloropropene	75	4.286	4.286	(0.863)	3123	0.25000	0.31(a)
93 1,2,3-Trichlorobenzene	180	11.791	11.791	(1.220)	365	0.25000	0.13(aM)
71 1,2,3-Trichloropropane	75	8.878	8.878	(0.919)	898	0.25000	0.16(a)
90 1,2,4-Trichlorobenzene	180	11.427	11.427	(1.182)	737	0.25000	0.15(aM)
79 1,2,4-Trimethylbenzene	105	9.392	9.392	(0.972)	5841	0.25000	0.23(a)
57 1,2-Dibromoethane	107	7.281	7.281	(0.949)	1909	0.25000	0.26(a)

88 1,2-Dichlorobenzene	146	10.018	10.018 (1.036)	2967	0.25000	0.22(a)
33 1,2-Dichloroethane	62	4.571	4.571 (0.920)	2679	0.25000	0.24(a)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071902.D Page 2
Report Date: 08-Sep-2022 12:20

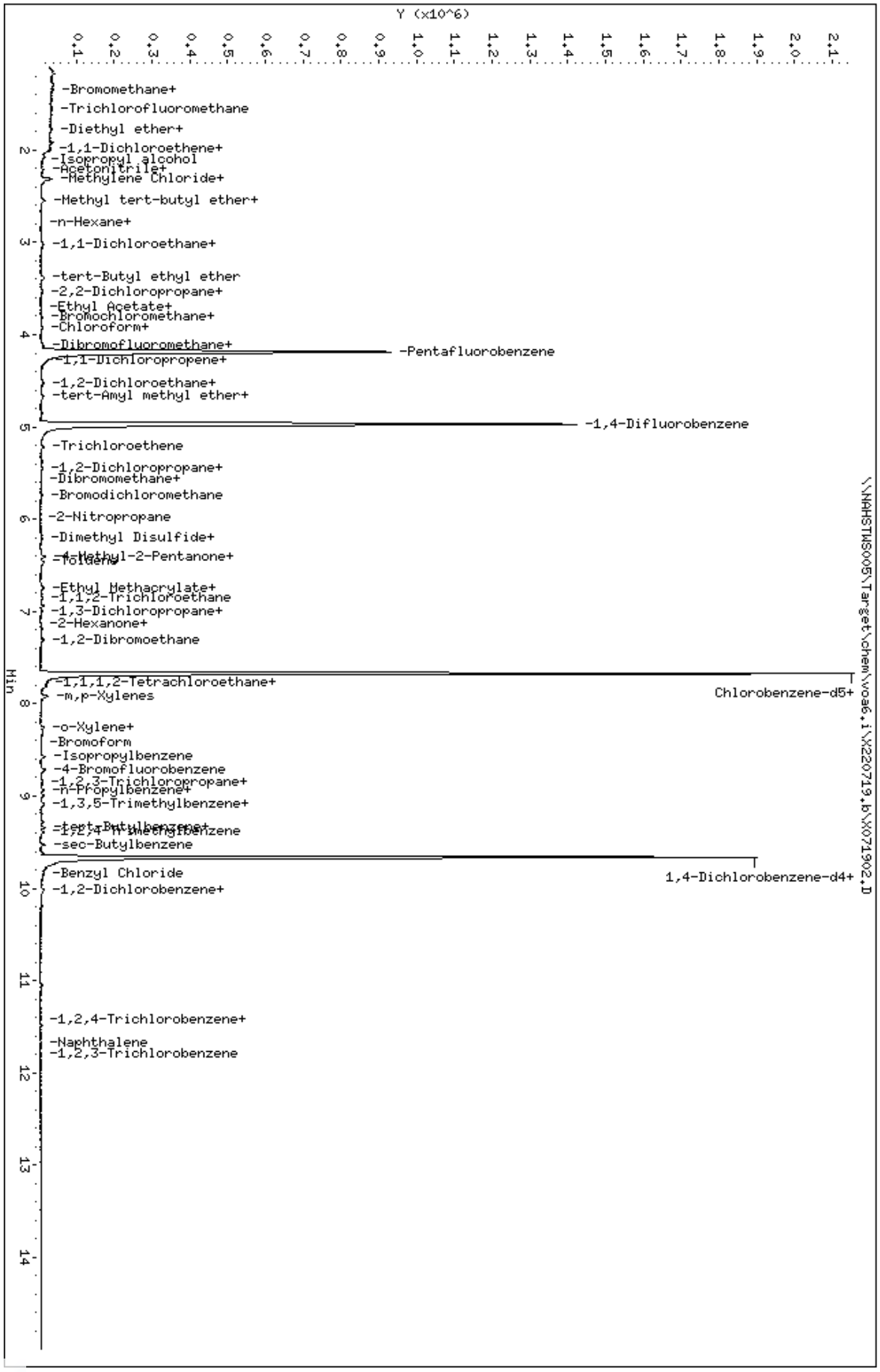
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
42	1,2-Dichloropropane	63	5.452	5.452	(1.097)	1860	0.25000	0.24(a)
75	1,3,5-Trimethylbenzene	105	9.081	9.081	(0.940)	5704	0.25000	0.22(a)
83	1,3-Dichlorobenzene	146	9.617	9.617	(0.995)	3278	0.25000	0.22(a)
54	1,3-Dichloropropane	76	7.000	7.000	(0.912)	3168	0.25000	0.26(a)
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	4292	0.25000	0.28(a)
26	2,2-Dichloropropane	77	3.522	3.522	(0.841)	2918	0.25000	0.00(aM)
24	2-Butanone	43	3.709	3.709	(0.886)	1011	0.50000	0.48(aM)
76	2-Chlorotoluene	91	8.991	8.991	(0.930)	5527	0.25000	0.24(a)
52	2-Hexanone	43	7.139	7.139	(0.930)	1144	0.50000	0.32(a)
77	4-Chlorotoluene	91	9.103	9.103	(0.942)	5589	0.25000	0.22(a)
82	p-Isopropyltoluene	119	9.654	9.654	(0.999)	5688	0.25000	0.22(a)
45	4-Methyl-2-Pentanone	43	6.352	6.352	(0.828)	1814	0.50000	0.33(a)
10	Acetone	43	1.973	1.973	(0.472)	1327	0.50000	(aM)
37	Benzene	78	4.530	4.530	(0.912)	7348	0.25000	0.24(a)
74	Bromobenzene	156	8.833	8.833	(0.914)	1831	0.25000	0.20(a)
29	Bromochloromethane	128	3.810	3.810	(0.910)	1379	0.25000	0.29(a)
39	Bromodichloromethane	83	5.741	5.741	(1.155)	2545	0.25000	0.24(aM)
66	Bromoform	173	8.421	8.421	(1.097)	995	0.25000	1.41(aM)
6	Bromomethane	94	1.351	1.351	(0.323)	3274	0.25000	(a)
19	Carbon Disulfide	76	2.082	2.082	(0.498)	9996	0.50000	0.54(a)
34	Carbon Tetrachloride	117	4.268	4.268	(0.859)	2941	0.25000	0.27(aM)
59	Chlorobenzene	112	7.698	7.698	(1.003)	5699	0.25000	0.26(a)
7	Chloroethane	64	1.407	1.407	(0.336)	1480	0.25000	0.27(aM)
28	Chloroform	83	3.919	3.919	(0.936)	3577	0.25000	0.25(a)
3	Chloromethane	50	1.081	1.081	(0.258)	2143	0.25000	0.32(a)
27	cis-1,2-Dichloroethene	96	3.555	3.555	(0.850)	2176	0.25000	0.26(aM)
46	cis-1,3-Dichloropropene	75	6.176	6.176	(1.243)	3069	0.25000	0.23(aM)
55	Dibromochloromethane	129	7.191	7.191	(0.937)	1966	0.25000	0.23(a)
44	Dibromomethane	93	5.565	5.565	(1.120)	1155	0.25000	0.22(a)
2	Dichlorodifluoromethane	85	0.976	0.976	(0.233)	1741	0.25000	0.04(a)
61	Ethylbenzene	106	7.810	7.810	(1.018)	2551	0.25000	0.23(a)
91	Hexachlorobutadiene	225	11.491	11.491	(1.189)	656	0.25000	0.15(aM)
67	Isopropylbenzene	105	8.575	8.575	(1.117)	7326	0.25000	0.22(a)
62	m,p-Xylenes	106	7.915	7.915	(1.031)	5956	0.50000	0.44(a)
17	Methylene Chloride	84	2.303	2.303	(0.550)	2179	0.25000	(aM)
87	n-Butylbenzene	91	10.022	10.022	(1.037)	2636	0.25000	0.12(aM)
73	n-Propylbenzene	91	8.935	8.935	(0.924)	8239	0.25000	0.24(a)
92	Naphthalene	128	11.671	11.671	(1.207)	1028	0.25000	0.19(aM)
63	o-Xylene	106	8.264	8.264	(1.077)	3336	0.25000	0.25(a)
81	sec-Butylbenzene	105	9.527	9.527	(0.986)	7167	0.25000	0.24(a)
64	Styrene	104	8.309	8.309	(1.083)	4361	0.25000	0.20(a)
78	tert-Butylbenzene	119	9.339	9.339	(0.966)	4918	0.25000	0.23(a)
56	Tetrachloroethene	164	6.933	6.933	(0.903)	1792	0.25000	0.24(a)
50	Toluene	91	6.460	6.460	(0.842)	8059	0.25000	0.25(a)
20	trans-1,2-Dichloroethene	96	2.543	2.543	(0.608)	1679	0.25000	0.22(a)
51	trans-1,3-Dichloropropene	75	6.715	6.715	(1.352)	2385	0.25000	0.22(a)
38	Trichloroethene	130	5.220	5.220	(1.051)	2042	0.25000	0.23(a)
8	Trichlorofluoromethane	101	1.565	1.565	(0.374)	2838	0.25000	0.21(a)
5	Vinyl Chloride	62	1.149	1.149	(0.275)	2270	0.25000	0.25(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071902.D
Date : 19-JUL-2022 11:27
Client ID: VSTD000.25
Sample Info: VSTD000.25;VSTD000.25;1;1;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

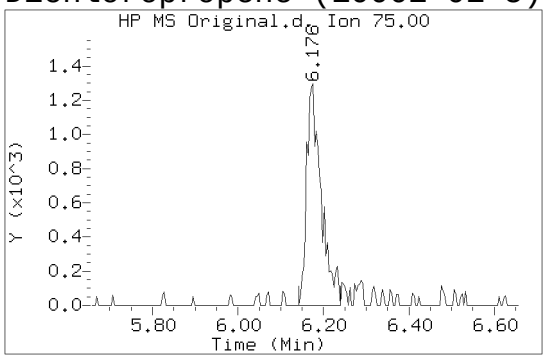
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071902.D
Inj Date : 19-JUL-2022 11:27
InstruID : voa6.i
LabSampID : VSTD000.25

cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

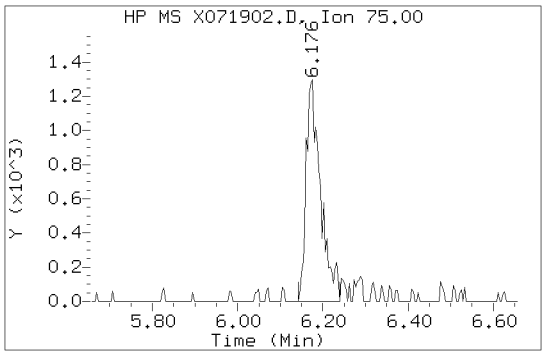
BEFORE

MASS
128
AREA
1379
HEIGHT
582
25-Jul-2022
09:00
linh
pham



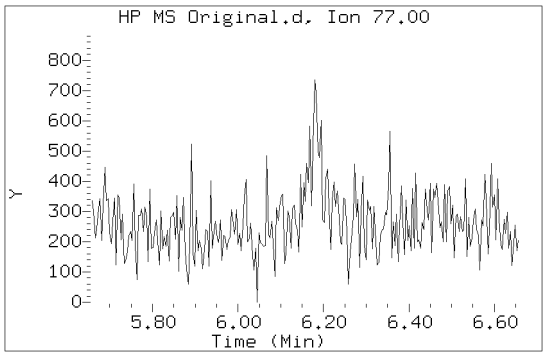
AFTER

MASS
75
AREA
3069
HEIGHT
1297
08-Sep-2022
12:20
linh
pham



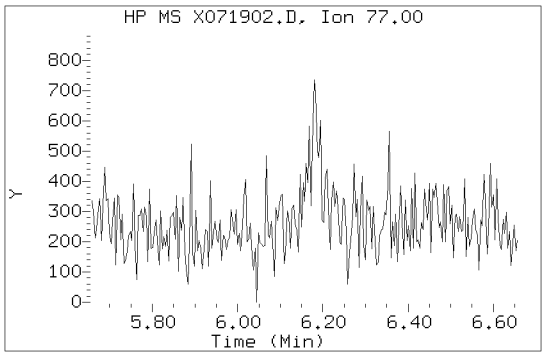
BEFORE

MASS
49
AREA
1593
HEIGHT
651
25-Jul-2022
09:00
linh
pham



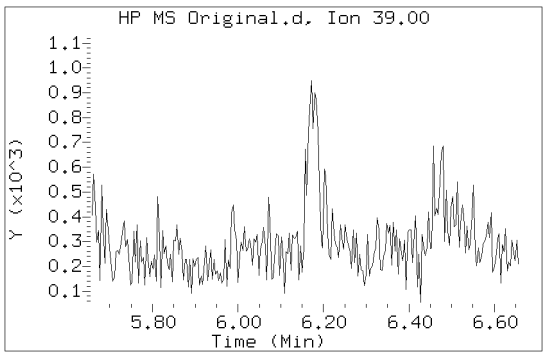
AFTER

MASS
77
AREA
0
HEIGHT
0
08-Sep-2022
12:20
linh
pham



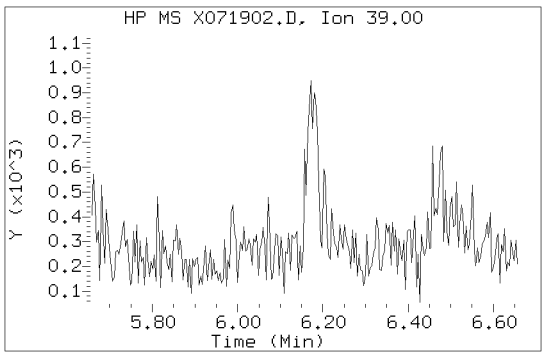
BEFORE

MASS
130
AREA
1583
HEIGHT
689
25-Jul-2022
09:00
linh
pham



AFTER

MASS
39
AREA
0
HEIGHT
0
08-Sep-2022
12:20
linh
pham

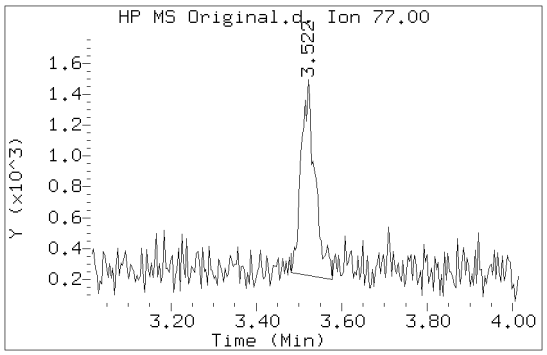


2,2-Dichloropropane (594-20-7)

Reason Code:

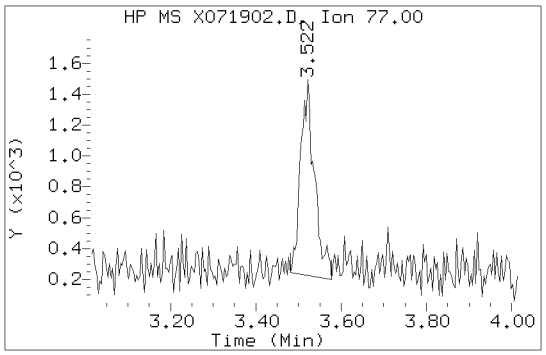
BEFORE

MASS
43
AREA
1144
HEIGHT
523
25-Jul-2022
09:00
linh
pham



AFTER

MASS
77
AREA
2918
HEIGHT
1268
08-Sep-2022
12:20
linh
pham



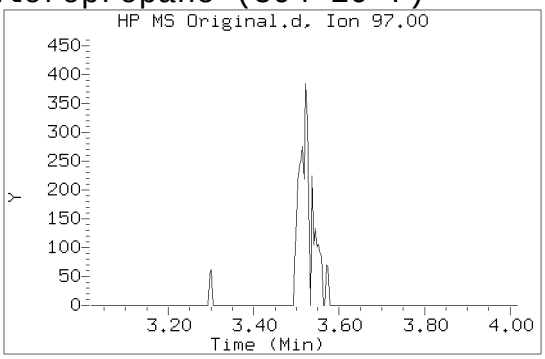
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071902.D
Inj Date : 19-JUL-2022 11:27
InstruID : voa6.i
LabSampID : VSTD000.25

2,2-Dichloropropane (594-20-7)

Reason Code:

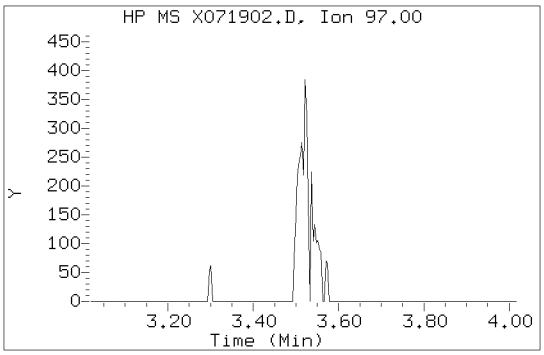
BEFORE

MASS
58
AREA
718
HEIGHT
357
25-Jul-2022
09:00
linh
pham



AFTER

MASS
97
AREA
0
HEIGHT
0
08-Sep-2022
12:20
linh
pham

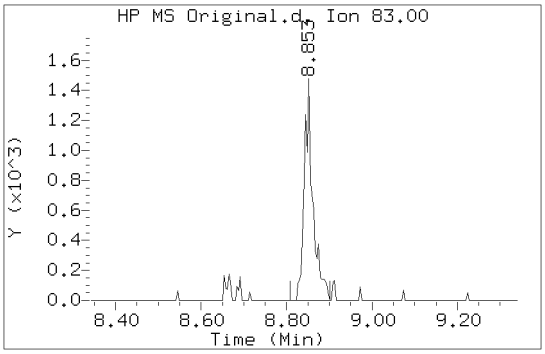


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

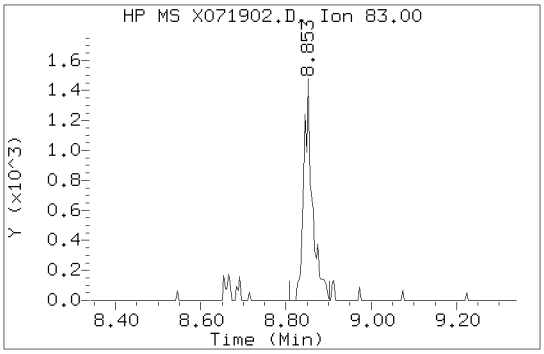
BEFORE

MASS
101
AREA
1540
HEIGHT
826
25-Jul-2022
09:00
linh
pham



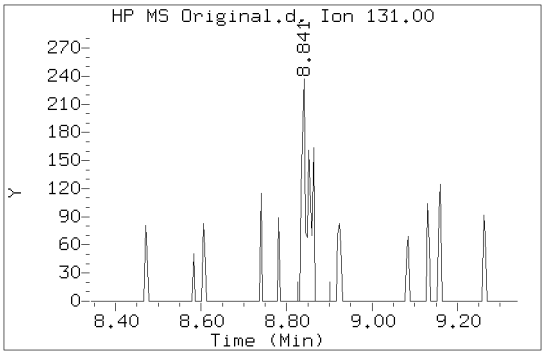
AFTER

MASS
83
AREA
2066
HEIGHT
1478
08-Sep-2022
12:20
linh
pham



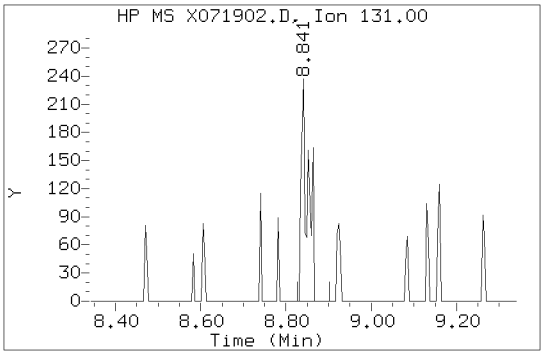
BEFORE

MASS
151
AREA
1093
HEIGHT
601
25-Jul-2022
09:00
linh
pham



AFTER

MASS
131
AREA
261
HEIGHT
237
08-Sep-2022
12:20
linh
pham

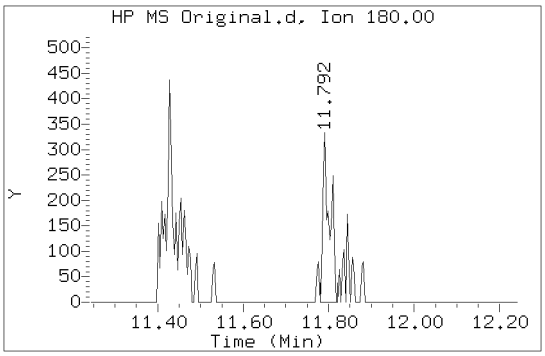


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

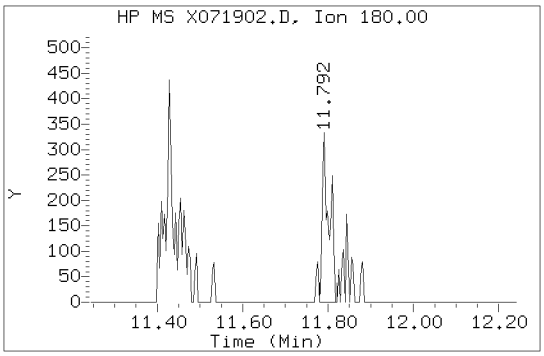
BEFORE

MASS
77
AREA
2918
HEIGHT
1268
25-Jul-2022
09:00
linh
pham



AFTER

MASS
180
AREA
365
HEIGHT
333
08-Sep-2022
12:20
linh
pham

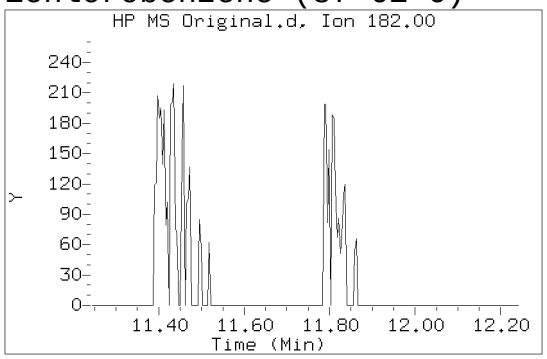


Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071902.D
Inj Date : 19-JUL-2022 11:27
InstruID : voa6.i
LabSampID : VSTD000.25

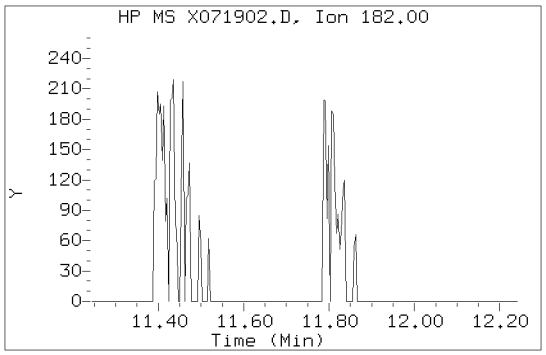
1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

BEFORE
MASS
97
AREA
0
HEIGHT
0
25-Jul-2022
09:00
linh
pham



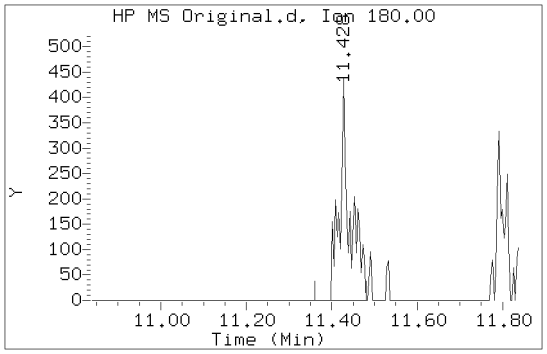
AFTER
MASS
182
AREA
0
HEIGHT
0
08-Sep-2022
12:20
linh
pham



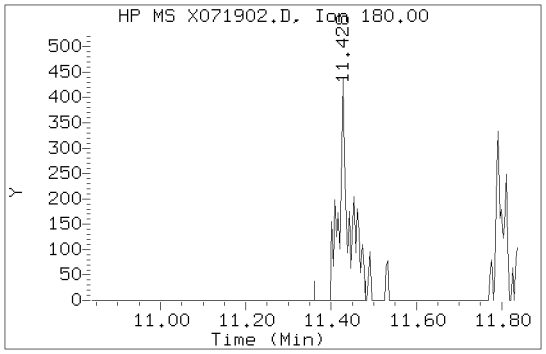
1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

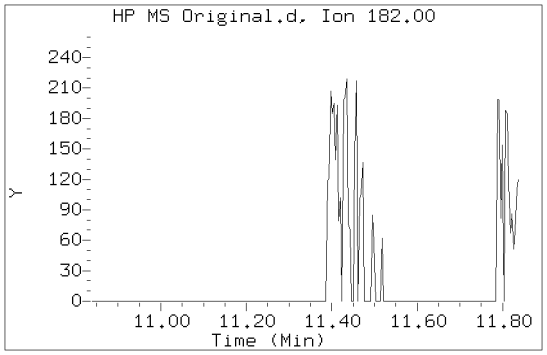
BEFORE
MASS
93
AREA
1155
HEIGHT
850
25-Jul-2022
09:00
linh
pham



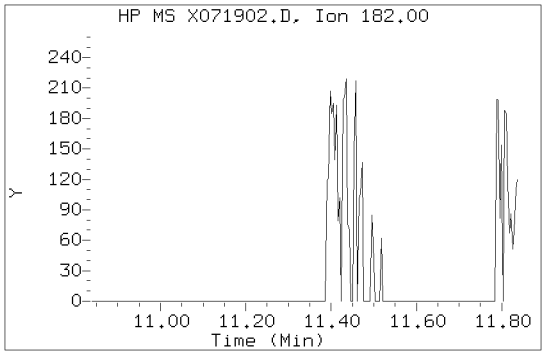
AFTER
MASS
180
AREA
737
HEIGHT
437
08-Sep-2022
12:20
linh
pham



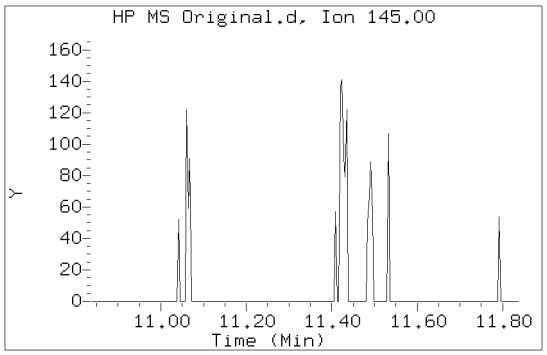
BEFORE
MASS
95
AREA
1189
HEIGHT
756
25-Jul-2022
09:00
linh
pham



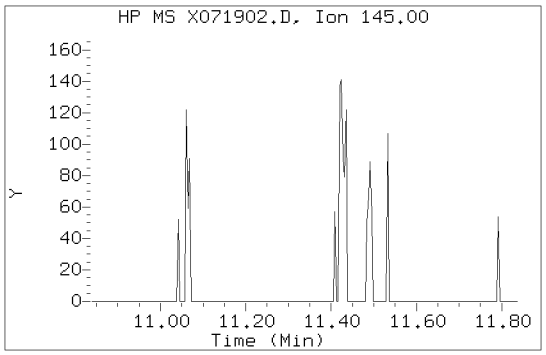
AFTER
MASS
182
AREA
0
HEIGHT
0
08-Sep-2022
12:20
linh
pham



BEFORE
MASS
174
AREA
1408
HEIGHT
628
25-Jul-2022
09:00
linh
pham



AFTER
MASS
145
AREA
0
HEIGHT
0
08-Sep-2022
12:20
linh
pham



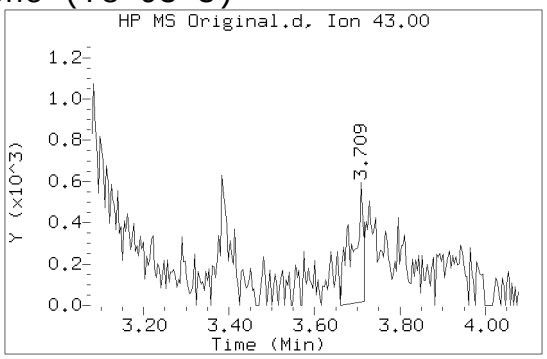
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071902.D
Inj Date : 19-JUL-2022 11:27
InstruID : voa6.i
LabSampID : VSTD000.25

2-Butanone (78-93-3)

Reason Code:

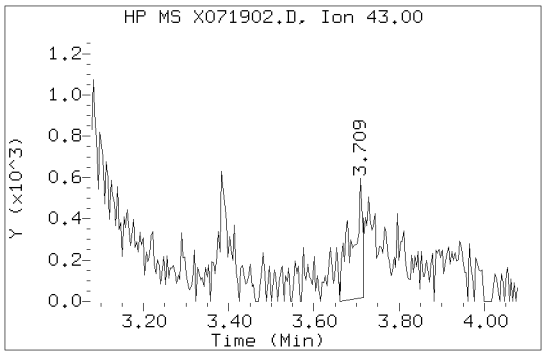
BEFORE

MASS
83
AREA
2066
HEIGHT
1478
25-Jul-2022
09:00
linh
pham



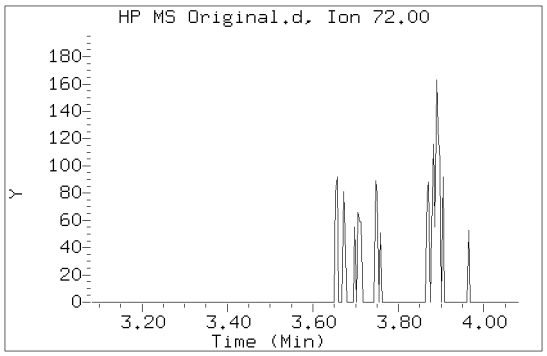
AFTER

MASS
43
AREA
1011
HEIGHT
580
08-Sep-2022
12:20
linh
pham



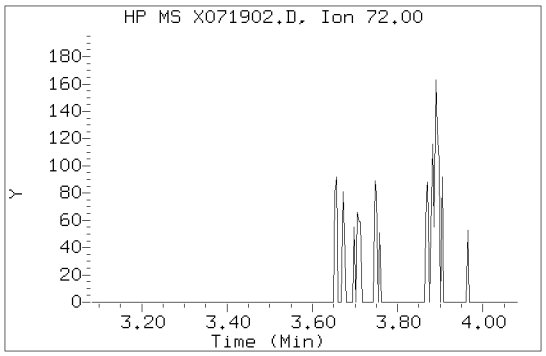
BEFORE

MASS
131
AREA
261
HEIGHT
237
25-Jul-2022
09:00
linh
pham



AFTER

MASS
72
AREA
0
HEIGHT
0
08-Sep-2022
12:20
linh
pham

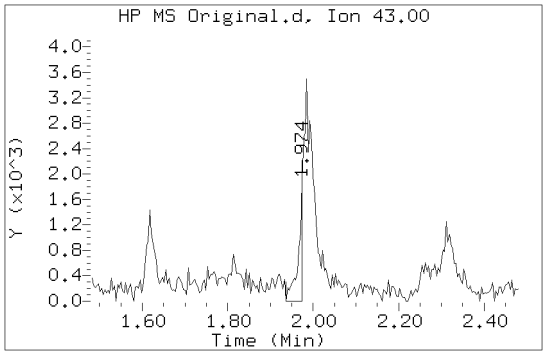


Acetone (67-64-1)

Reason Code:

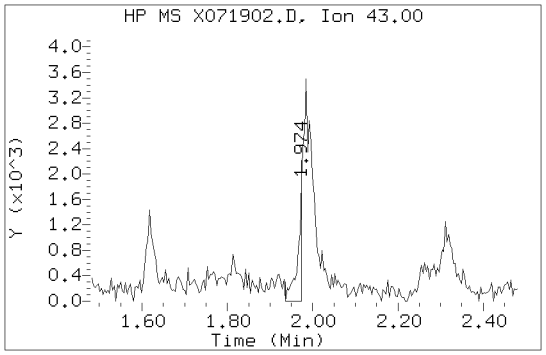
BEFORE

MASS
62
AREA
2270
HEIGHT
1999
25-Jul-2022
09:00
linh
pham



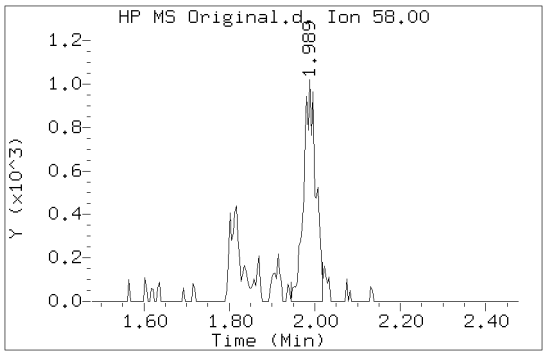
AFTER

MASS
43
AREA
1327
HEIGHT
1915
08-Sep-2022
12:20
linh
pham



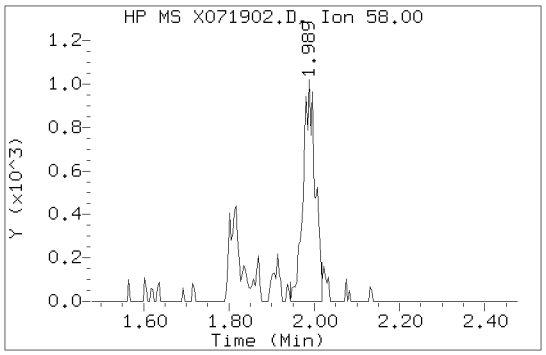
BEFORE

MASS
64
AREA
1357
HEIGHT
893
25-Jul-2022
09:00
linh
pham



AFTER

MASS
58
AREA
2032
HEIGHT
1020
08-Sep-2022
12:20
linh
pham



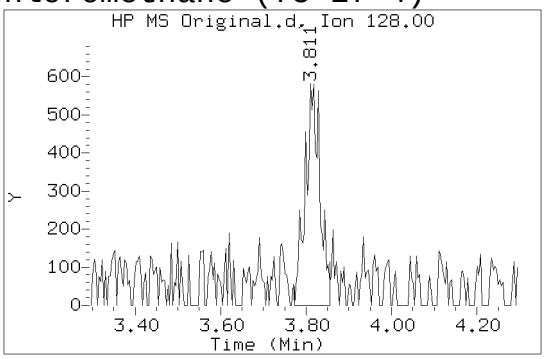
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071902.D
Inj Date : 19-JUL-2022 11:27
InstruID : voa6.i
LabSampID : VSTD000.25

Bromodichloromethane (75-27-4)

Reason Code:

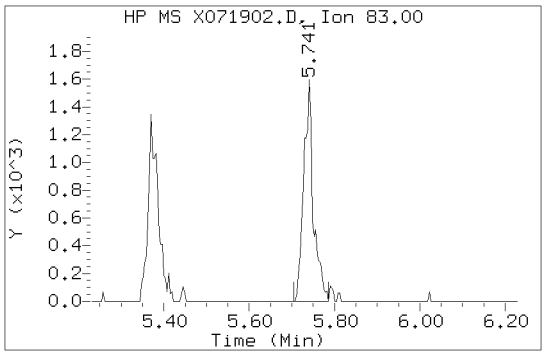
BEFORE

MASS
112
AREA
5699
HEIGHT
4160
25-Jul-2022
09:00
linh
pham



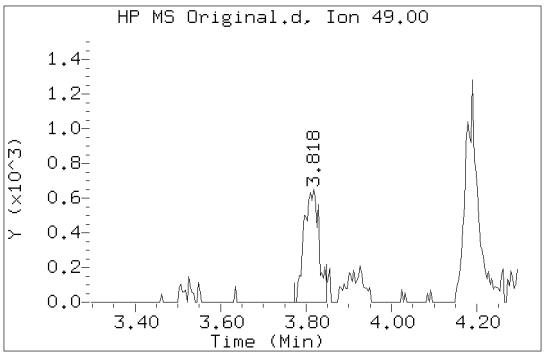
AFTER

MASS
83
AREA
2545
HEIGHT
1596
08-Sep-2022
12:20
linh
pham



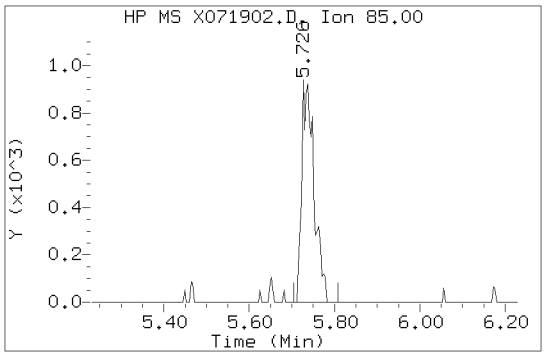
BEFORE

MASS
77
AREA
13059
HEIGHT
6542
25-Jul-2022
09:00
linh
pham



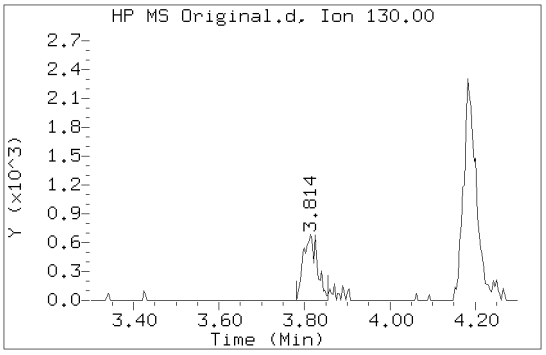
AFTER

MASS
85
AREA
1904
HEIGHT
940
08-Sep-2022
12:20
linh
pham



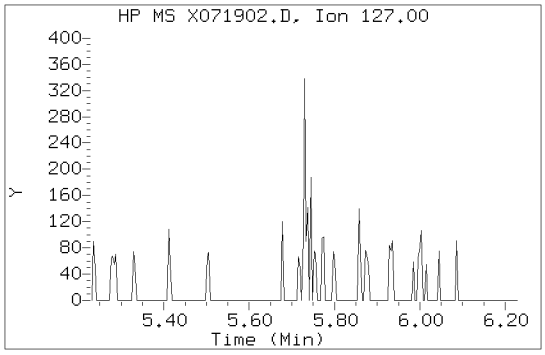
BEFORE

MASS
114
AREA
1994
HEIGHT
1227
25-Jul-2022
09:00
linh
pham



AFTER

MASS
127
AREA
0
HEIGHT
0
08-Sep-2022
12:20
linh
pham

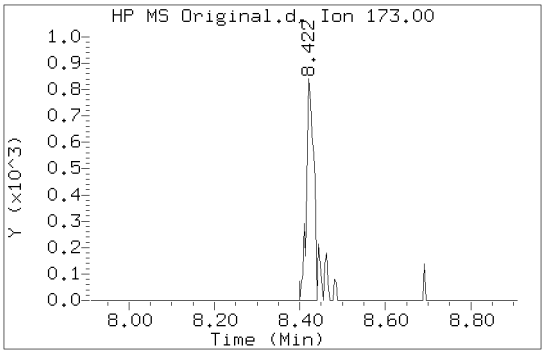


Bromoform (75-25-2)

Reason Code:

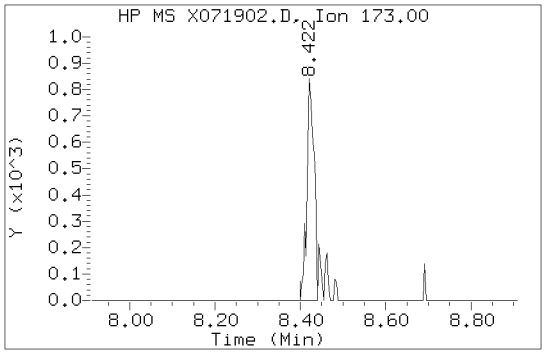
BEFORE

MASS
64
AREA
1480
HEIGHT
1248
25-Jul-2022
09:00
linh
pham



AFTER

MASS
173
AREA
995
HEIGHT
841
08-Sep-2022
12:20
linh
pham



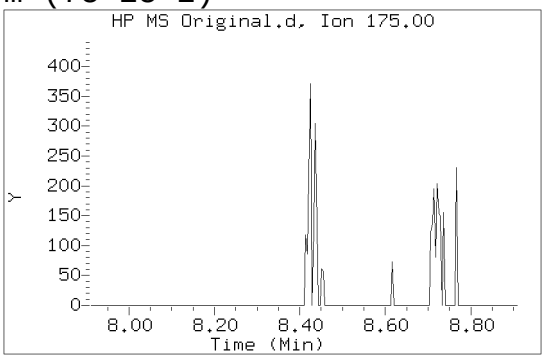
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071902.D
Inj Date : 19-JUL-2022 11:27
InstruID : voa6.i
LabSampID : VSTD000.25

Bromoform (75-25-2)

Reason Code:

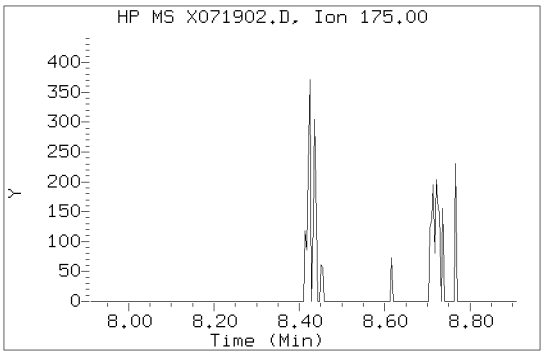
BEFORE

MASS
66
AREA
908
HEIGHT
577
25-Jul-2022
09:00
linh
pham



AFTER

MASS
175
AREA
0
HEIGHT
0
08-Sep-2022
12:20
linh
pham

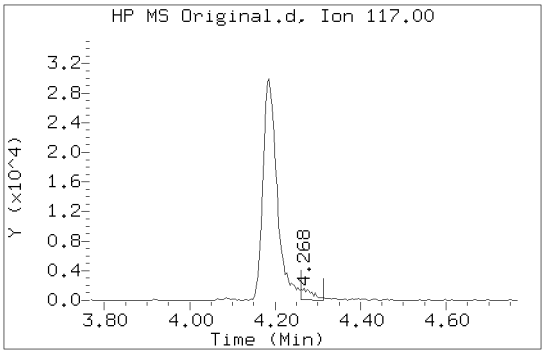


Carbon Tetrachloride (56-23-5)

Reason Code:

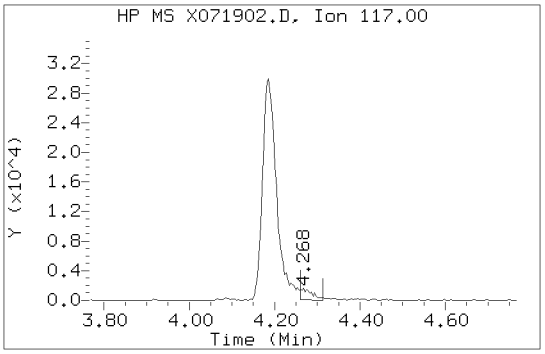
BEFORE

MASS
96
AREA
2176
HEIGHT
1100
25-Jul-2022
09:00
linh
pham



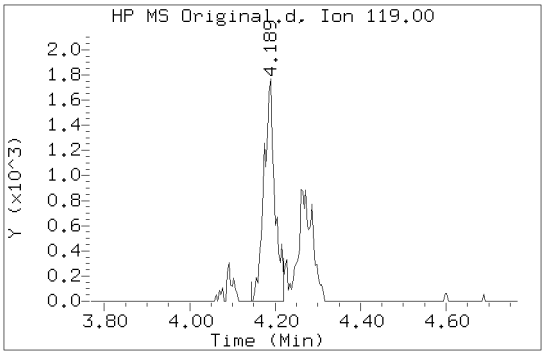
AFTER

MASS
117
AREA
2941
HEIGHT
1575
08-Sep-2022
12:20
linh
pham



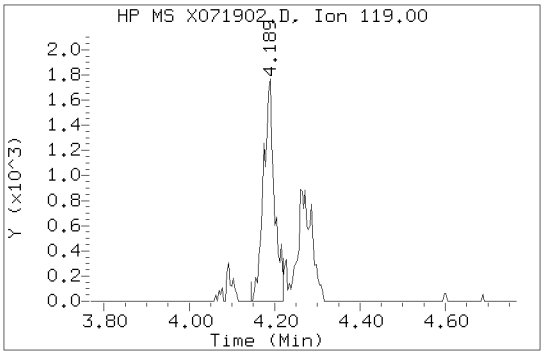
BEFORE

MASS
61
AREA
2985
HEIGHT
1241
25-Jul-2022
09:00
linh
pham



AFTER

MASS
119
AREA
3120
HEIGHT
1768
08-Sep-2022
12:20
linh
pham

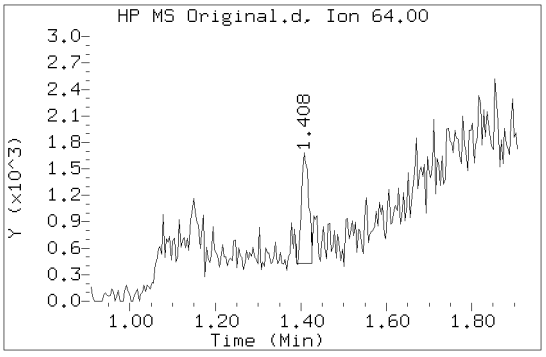


Chloroethane (75-00-3)

Reason Code:

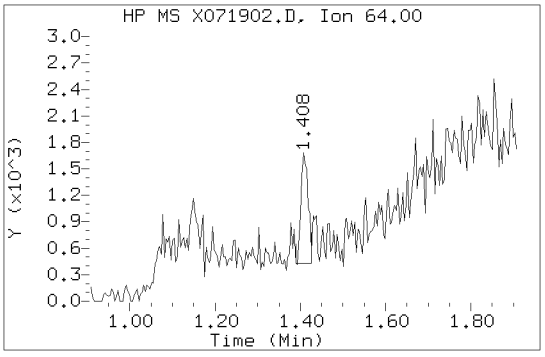
BEFORE

MASS
117
AREA
1125944
HEIGHT
749184
25-Jul-2022
09:00
linh
pham



AFTER

MASS
64
AREA
1480
HEIGHT
1248
08-Sep-2022
12:20
linh
pham



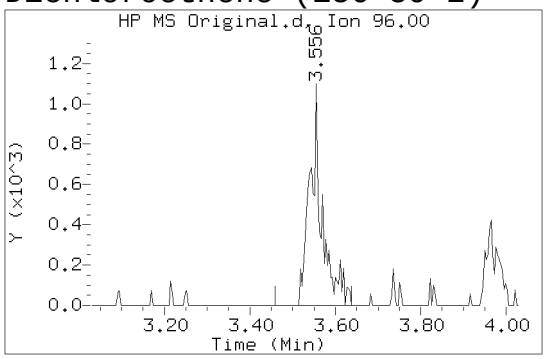
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071902.D
Inj Date : 19-JUL-2022 11:27
InstruID : voa6.i
LabSampID : VSTD000.25

cis-1,2-Dichloroethene (156-59-2)

Reason Code:

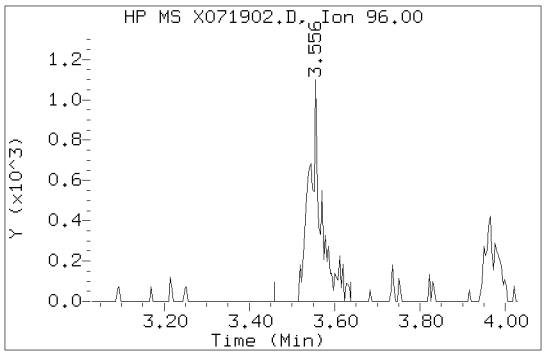
BEFORE

MASS
106
AREA
2551
HEIGHT
1284
25-Jul-2022
09:00
linh
pham



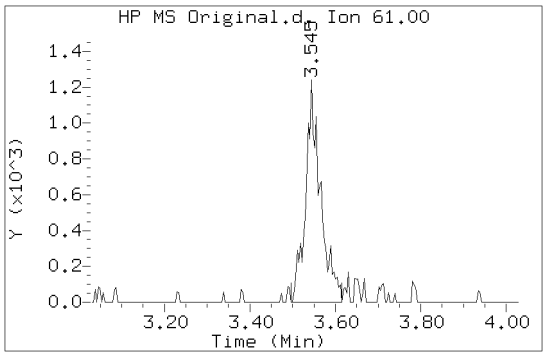
AFTER

MASS
96
AREA
2176
HEIGHT
1100
08-Sep-2022
12:20
linh
pham



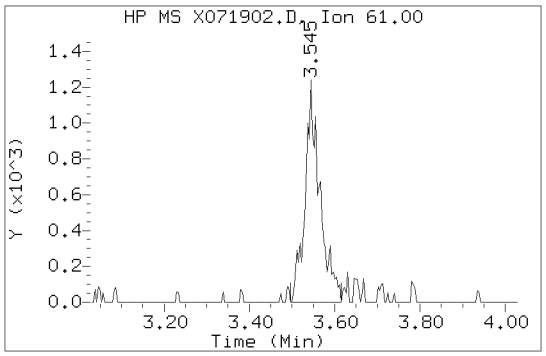
BEFORE

MASS
91
AREA
8845
HEIGHT
4301
25-Jul-2022
09:00
linh
pham



AFTER

MASS
61
AREA
2985
HEIGHT
1241
08-Sep-2022
12:20
linh
pham

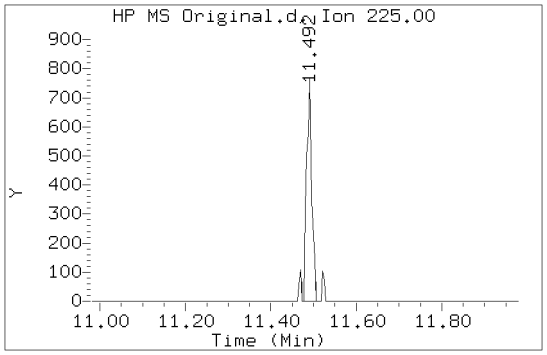


Hexachlorobutadiene (87-68-3)

Reason Code:

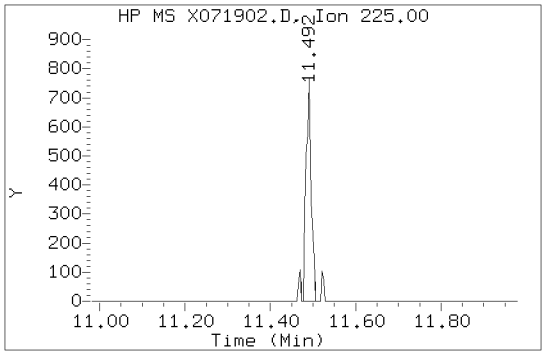
BEFORE

MASS
91
AREA
8239
HEIGHT
3499
25-Jul-2022
09:00
linh
pham



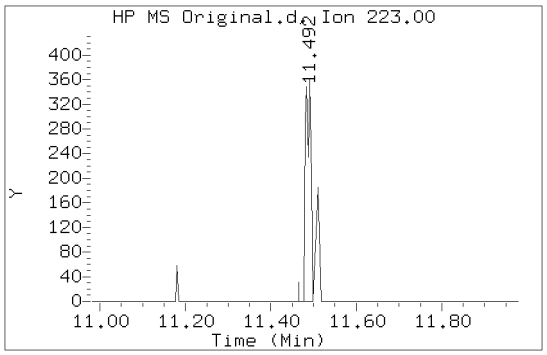
AFTER

MASS
225
AREA
656
HEIGHT
765
08-Sep-2022
12:20
linh
pham



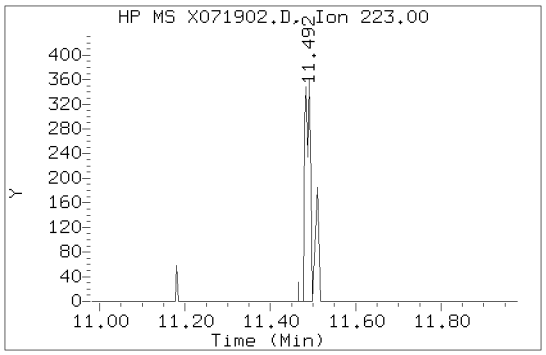
BEFORE

MASS
120
AREA
2347
HEIGHT
1333
25-Jul-2022
09:00
linh
pham



AFTER

MASS
223
AREA
322
HEIGHT
360
08-Sep-2022
12:20
linh
pham



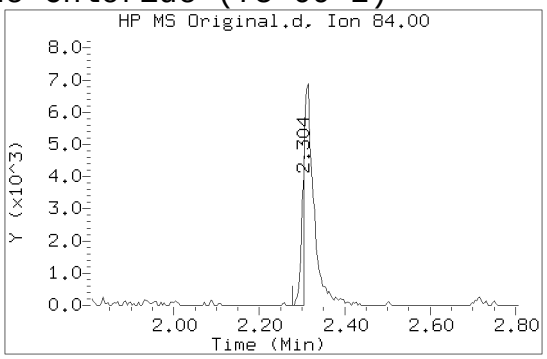
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071902.D
Inj Date : 19-JUL-2022 11:27
InstruID : voa6.i
LabSampID : VSTD000.25

Methylene Chloride (75-09-2)

Reason Code:

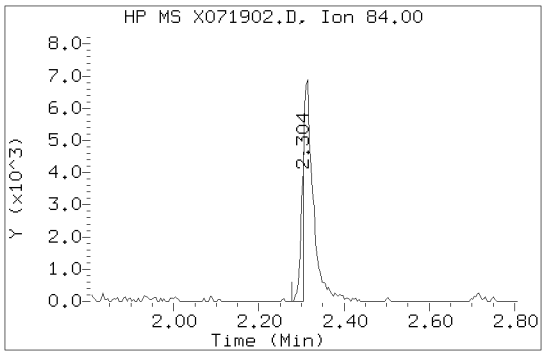
BEFORE

MASS
91
AREA
5589
HEIGHT
2011
25-Jul-2022
09:00
linh
pham



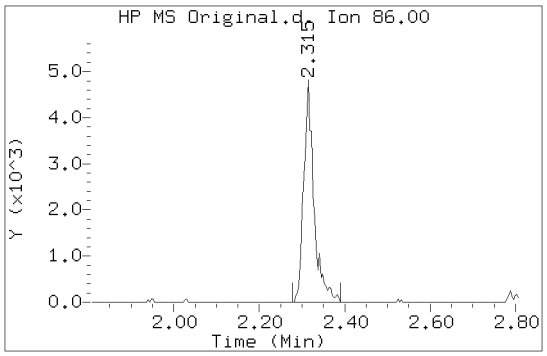
AFTER

MASS
84
AREA
2179
HEIGHT
4047
08-Sep-2022
12:20
linh
pham



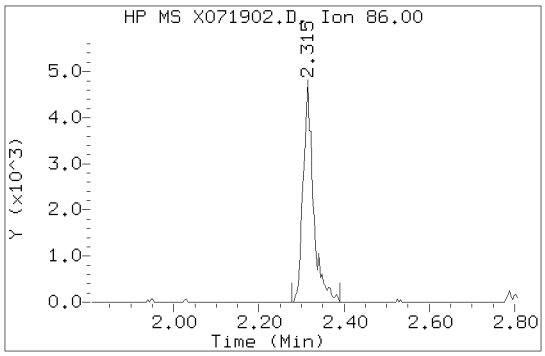
BEFORE

MASS
126
AREA
1833
HEIGHT
712
25-Jul-2022
09:00
linh
pham



AFTER

MASS
86
AREA
8177
HEIGHT
4819
08-Sep-2022
12:20
linh
pham

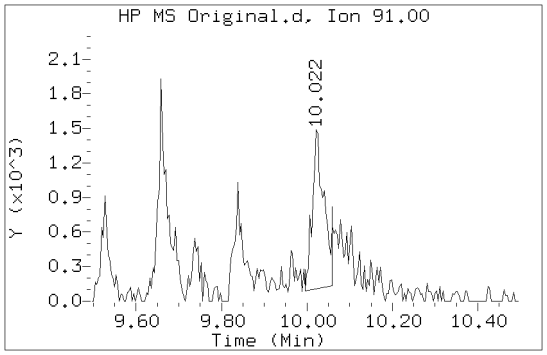


n-Butylbenzene (104-51-8)

Reason Code:

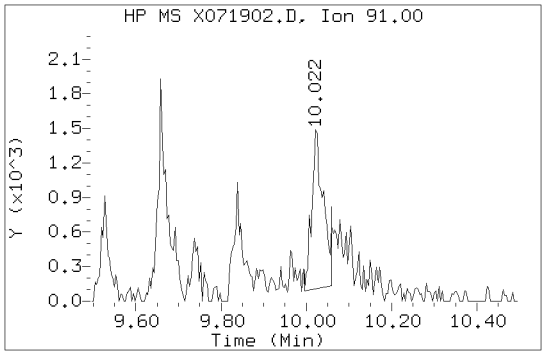
BEFORE

MASS
119
AREA
4918
HEIGHT
3300
25-Jul-2022
09:00
linh
pham



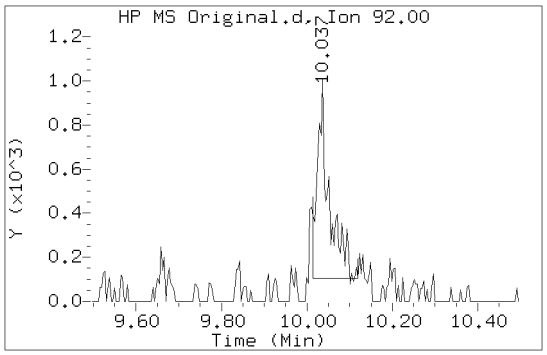
AFTER

MASS
91
AREA
2636
HEIGHT
1379
08-Sep-2022
12:20
linh
pham



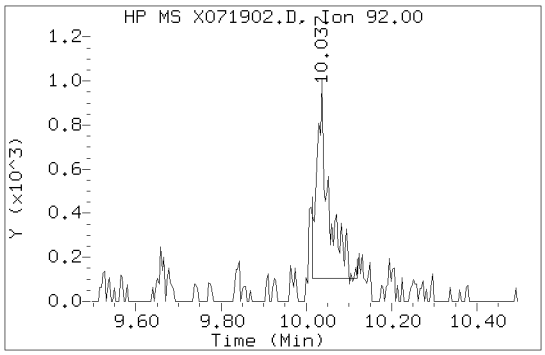
BEFORE

MASS
91
AREA
3272
HEIGHT
2266
25-Jul-2022
09:00
linh
pham



AFTER

MASS
92
AREA
1706
HEIGHT
901
08-Sep-2022
12:20
linh
pham

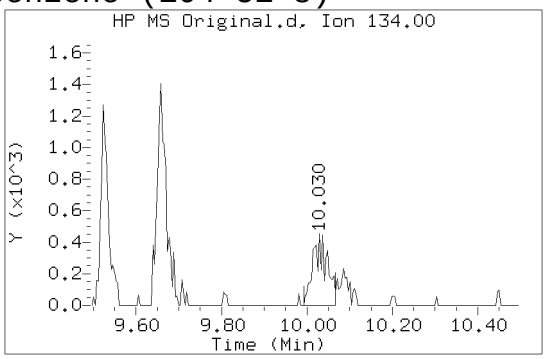


Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071902.D
Inj Date : 19-JUL-2022 11:27
InstruID : voa6.i
LabSampID : VSTD000.25

n-Butylbenzene (104-51-8)

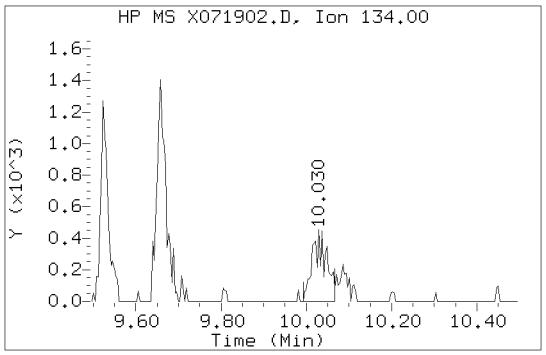
BEFORE

MASS
134
AREA
1291
HEIGHT
839
25-Jul-2022
09:00
linh
pham



AFTER

MASS
134
AREA
1039
HEIGHT
456
08-Sep-2022
12:20
linh
pham

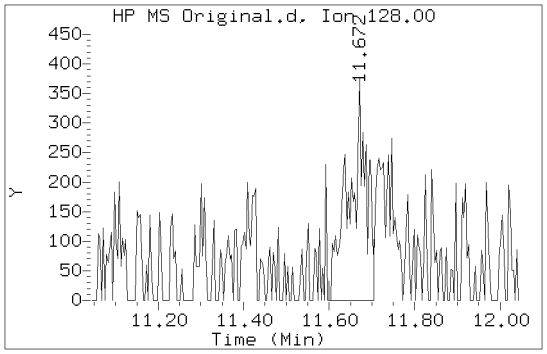


Reason Code:

Naphthalene (91-20-3)

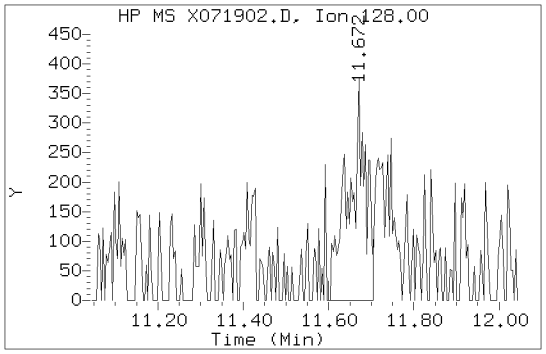
BEFORE

MASS
105
AREA
7167
HEIGHT
4920
25-Jul-2022
09:00
linh
pham



AFTER

MASS
128
AREA
1028
HEIGHT
375
08-Sep-2022
12:20
linh
pham

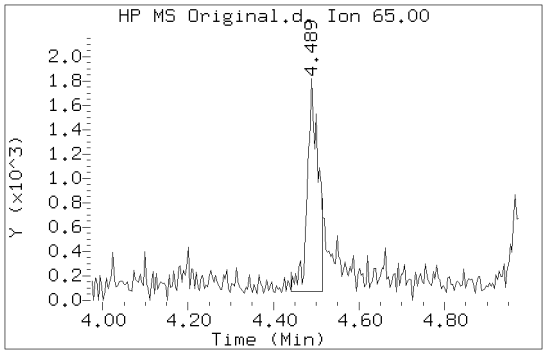


Reason Code:

1,2-Dichloroethane-d4 (17060-07-0)

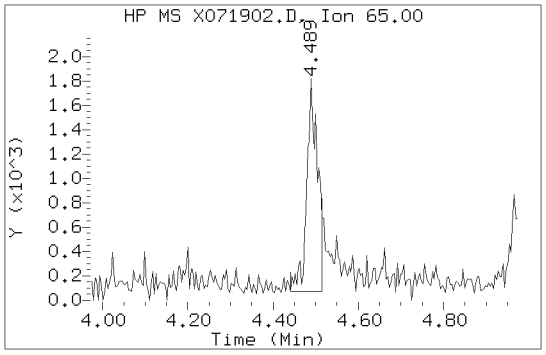
BEFORE

MASS
113
AREA
2821
HEIGHT
1201
25-Jul-2022
09:00
linh
pham



AFTER

MASS
65
AREA
3098
HEIGHT
1743
08-Sep-2022
12:20
linh
pham



Reason Code:

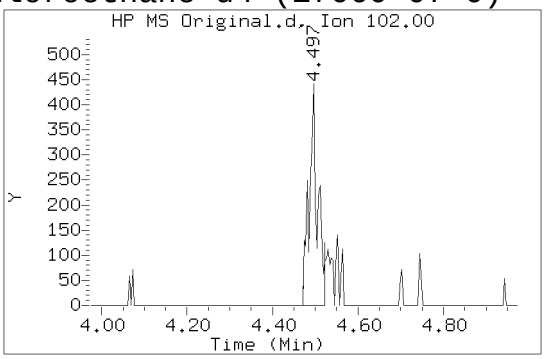
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071902.D
Inj Date : 19-JUL-2022 11:27
InstruID : voa6.i
LabSampID : VSTD000.25

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

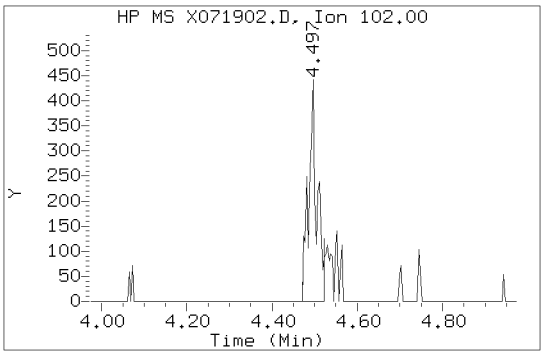
BEFORE

MASS
111
AREA
2894
HEIGHT
1282
25-Jul-2022
09:00
linh
pham



AFTER

MASS
102
AREA
606
HEIGHT
442
08-Sep-2022
12:20
linh
pham

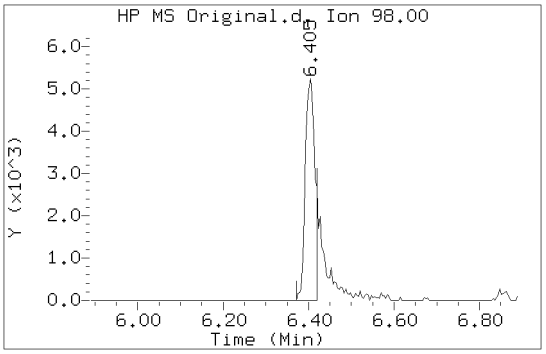


Toluene-d8 (2037-26-5)

Reason Code:

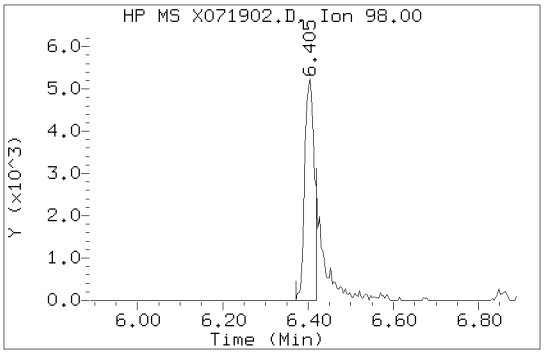
BEFORE

MASS
65
AREA
3098
HEIGHT
1743
25-Jul-2022
09:00
linh
pham



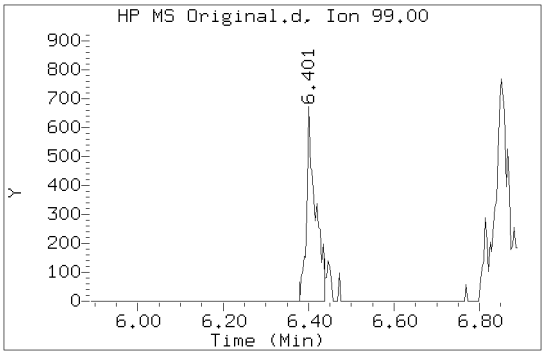
AFTER

MASS
98
AREA
8187
HEIGHT
5242
08-Sep-2022
12:20
linh
pham



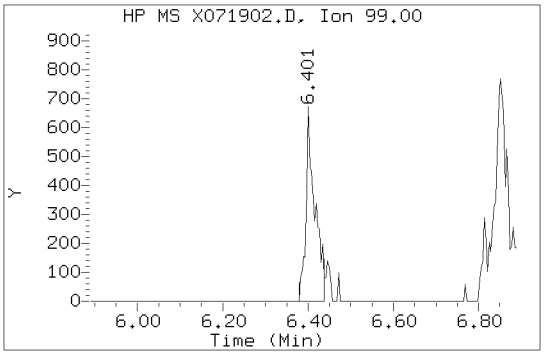
BEFORE

MASS
102
AREA
606
HEIGHT
442
25-Jul-2022
09:00
linh
pham



AFTER

MASS
99
AREA
978
HEIGHT
672
08-Sep-2022
12:20
linh
pham

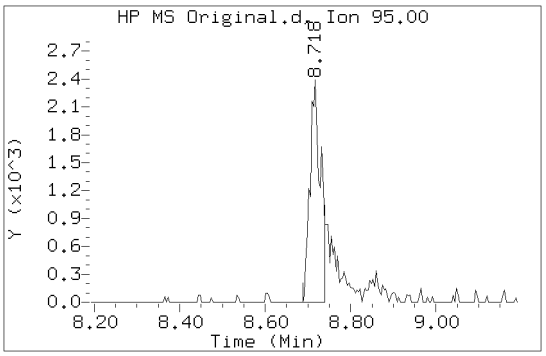


4-Bromofluorobenzene (460-00-4)

Reason Code:

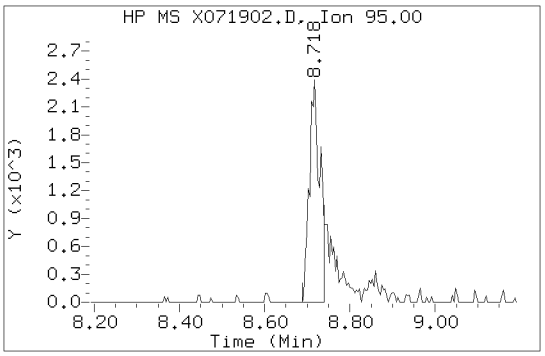
BEFORE

MASS
95
AREA
4127
HEIGHT
2390
25-Jul-2022
09:00
linh
pham



AFTER

MASS
95
AREA
4127
HEIGHT
2390
08-Sep-2022
12:20
linh
pham



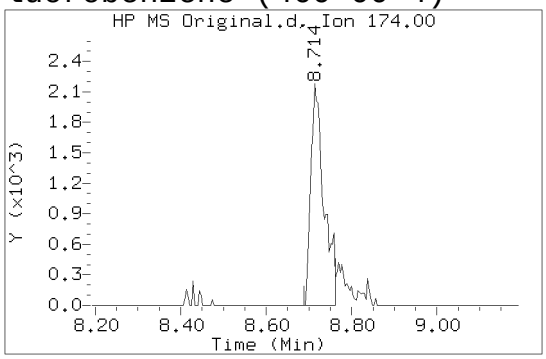
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071902.D
Inj Date : 19-JUL-2022 11:27
InstruID : voa6.i
LabSampID : VSTD000.25

4-Bromofluorobenzene (460-00-4)

Reason Code:

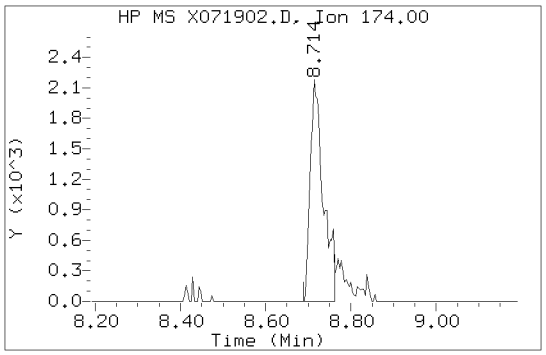
BEFORE

MASS
174
AREA
4648
HEIGHT
2180
25-Jul-2022
09:00
linh
pham



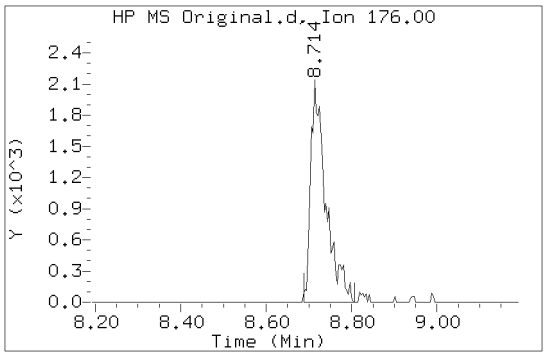
AFTER

MASS
174
AREA
4648
HEIGHT
2180
08-Sep-2022
12:20
linh
pham



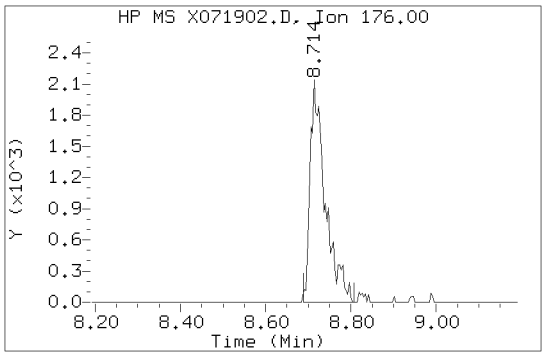
BEFORE

MASS
176
AREA
5254
HEIGHT
2140
25-Jul-2022
09:00
linh
pham



AFTER

MASS
176
AREA
5254
HEIGHT
2140
08-Sep-2022
12:20
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071903.D Page 1
Report Date: 08-Sep-2022 12:20

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071903.D
Lab Smp Id: VSTD000.5 Client Smp ID: VSTD000.5
Inj Date : 19-JUL-2022 12:08
Operator : PC Inst ID: voa6.i
Smp Info : VSTD000.5;VSTD000.5;1;2;
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\8260W.m
Meth Date : 08-Sep-2022 12:20 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 11:27 Cal File: X071902.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

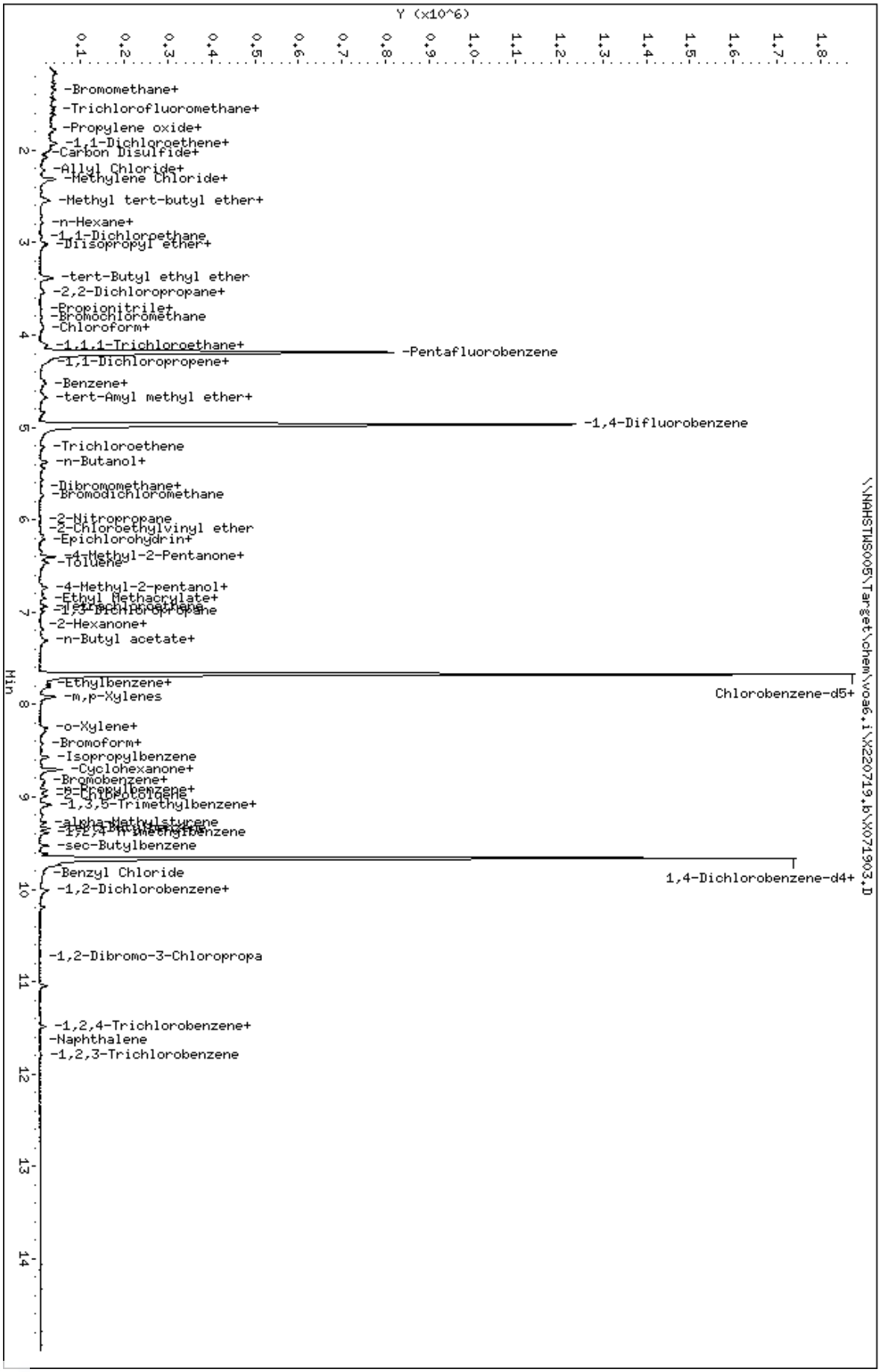
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.185	4.185	(1.000)	739240	50.0000	
* 36 1,4-Difluorobenzene	114	4.968	4.968	(1.000)	1081359	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	971157	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.665	9.665	(1.000)	441620	50.0000	
$ 30 Dibromofluoromethane	113	4.106	4.106	(0.981)	4991	0.50000	(aM)
$ 35 1,2-Dichloroethane-d4	65	4.492	4.492	(1.073)	5362	0.50000	0.37(aM)
$ 48 Toluene-d8	98	6.400	6.400	(0.834)	14148	0.50000	0.58(aM)
$ 69 4-Bromofluorobenzene	95	8.702	8.702	(1.134)	6586	0.50000	(aM)
60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	3465	0.50000	0.50(aM)
31 1,1,1-Trichloroethane	97	4.099	4.099	(0.979)	5496	0.50000	0.52(a)
68 1,1,2,2-Tetrachloroethane	83	8.848	8.848	(0.915)	3451	0.50000	0.55(aM)
53 1,1,2-Trichloroethane	83	6.850	6.850	(0.893)	2609	0.50000	0.52(aM)
22 1,1-Dichloroethane	63	2.933	2.933	(0.701)	5606	0.50000	0.49(a)
11 1,1-Dichloroethene	96	1.921	1.921	(0.459)	3325	0.50000	0.53(aM)
32 1,1-Dichloropropene	75	4.290	4.290	(0.863)	4832	0.50000	0.55(a)
93 1,2,3-Trichlorobenzene	180	11.791	11.791	(1.220)	1275	0.50000	0.55(aM)
71 1,2,3-Trichloropropane	75	8.878	8.878	(0.919)	2596	0.50000	0.54(aM)
90 1,2,4-Trichlorobenzene	180	11.401	11.401	(1.180)	2030	0.50000	0.50(aM)
79 1,2,4-Trimethylbenzene	105	9.392	9.392	(0.972)	11226	0.50000	0.52(aM)
89 1,2-Dibromo-3-Chloropropane	155	10.726	10.726	(1.110)	270	0.50000	0.99(aM)

57	1,2-Dibromoethane	107	7.278	7.278 (0.949)	3299	0.50000	0.52(aM)
88	1,2-Dichlorobenzene	146	10.010	10.010 (1.036)	5548	0.50000	0.50(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
33 1,2-Dichloroethane	62	4.567	4.567	(0.919)	4888	0.50000	0.51(aM)
42 1,2-Dichloropropane	63	5.456	5.456	(1.098)	3868	0.50000	0.58(aM)
75 1,3,5-Trimethylbenzene	105	9.073	9.073	(0.939)	11467	0.50000	0.53(a)
83 1,3-Dichlorobenzene	146	9.617	9.617	(0.995)	6308	0.50000	0.51(a)
54 1,3-Dichloropropane	76	6.993	6.993	(0.912)	5230	0.50000	0.51(aM)
84 1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	7241	0.50000	0.55(a)
26 2,2-Dichloropropane	77	3.525	3.525	(0.842)	5133	0.50000	0.26(a)
24 2-Butanone	43	3.694	3.694	(0.883)	1760	1.00000	0.94(aM)
76 2-Chlorotoluene	91	8.987	8.987	(0.930)	10810	0.50000	0.57(aM)
52 2-Hexanone	43	7.131	7.131	(0.930)	3055	1.00000	1.00(aM)
77 4-Chlorotoluene	91	9.099	9.099	(0.941)	11731	0.50000	0.55(a)
82 p-Isopropyltoluene	119	9.654	9.654	(0.999)	11018	0.50000	0.51(aM)
45 4-Methyl-2-Pentanone	43	6.352	6.352	(0.828)	4464	1.00000	0.94(a)
10 Acetone	43	1.977	1.977	(0.472)	1762	1.00000	(aM)
37 Benzene	78	4.534	4.534	(0.912)	13584	0.50000	0.53(a)
74 Bromobenzene	156	8.826	8.826	(0.913)	3862	0.50000	0.51(a)
29 Bromochloromethane	128	3.810	3.810	(0.910)	2258	0.50000	0.54(a)
39 Bromodichloromethane	83	5.733	5.733	(1.154)	4485	0.50000	0.49(aM)
66 Bromoform	173	8.421	8.421	(1.098)	1755	0.50000	1.59(Ta)
6 Bromomethane	94	1.347	1.347	(0.322)	3413	0.50000	(aM)
19 Carbon Disulfide	76	2.078	2.078	(0.497)	16886	1.00000	1.03(a)
34 Carbon Tetrachloride	117	4.260	4.260	(0.857)	5505	0.50000	0.59(aMH)
59 Chlorobenzene	112	7.701	7.701	(1.004)	9208	0.50000	0.50(a)
7 Chloroethane	64	1.411	1.411	(0.337)	2356	0.50000	0.49(aM)
28 Chloroform	83	3.919	3.919	(0.936)	6190	0.50000	0.49(a)
3 Chloromethane	50	1.085	1.085	(0.259)	3959	0.50000	0.63(aM)
27 cis-1,2-Dichloroethene	96	3.551	3.551	(0.849)	3635	0.50000	0.49(a)
46 cis-1,3-Dichloropropene	75	6.172	6.172	(1.242)	5379	0.50000	0.47(aM)
55 Dibromochloromethane	129	7.191	7.191	(0.937)	3661	0.50000	0.50(aM)
44 Dibromomethane	93	5.564	5.564	(1.120)	2298	0.50000	0.51(a)
2 Dichlorodifluoromethane	85	0.976	0.976	(0.233)	3857	0.50000	0.37(a)
61 Ethylbenzene	106	7.810	7.810	(1.018)	4672	0.50000	0.50(a)
91 Hexachlorobutadiene	225	11.487	11.487	(1.188)	2233	0.50000	0.60(aM)
67 Isopropylbenzene	105	8.567	8.567	(1.117)	13970	0.50000	0.49(aM)
62 m,p-Xylenes	106	7.919	7.919	(1.032)	10839	1.00000	0.93(a)
17 Methylene Chloride	84	2.311	2.311	(0.552)	4801	0.50000	(aM)
87 n-Butylbenzene	91	10.018	10.018	(1.036)	9255	0.50000	0.51(aM)
73 n-Propylbenzene	91	8.927	8.927	(0.924)	14364	0.50000	0.49(a)
92 Naphthalene	128	11.637	11.637	(1.204)	2252	0.50000	0.50(aM)
63 o-Xylene	106	8.256	8.256	(1.076)	5758	0.50000	0.51(a)
81 sec-Butylbenzene	105	9.527	9.527	(0.986)	13047	0.50000	0.52(a)
64 Styrene	104	8.293	8.293	(1.081)	8853	0.50000	0.47(aM)
78 tert-Butylbenzene	119	9.343	9.343	(0.967)	9259	0.50000	0.50(a)
56 Tetrachloroethene	164	6.940	6.940	(0.905)	3226	0.50000	0.51(aM)
50 Toluene	91	6.464	6.464	(0.843)	14425	0.50000	0.52(a)
20 trans-1,2-Dichloroethene	96	2.547	2.547	(0.609)	3384	0.50000	0.52(a)
51 trans-1,3-Dichloropropene	75	6.708	6.708	(1.350)	4702	0.50000	0.50(aM)
38 Trichloroethene	130	5.216	5.216	(1.050)	3892	0.50000	0.51(a)
8 Trichlorofluoromethane	101	1.565	1.565	(0.374)	5874	0.50000	0.50(a)
5 Vinyl Chloride	62	1.149	1.149	(0.275)	4102	0.50000	0.52(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071903.D
Date : 19-JUL-2022 12:08
Client ID: VSTD000.5
Sample Info: VSTD000.5;VSTD000.5;1;2;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

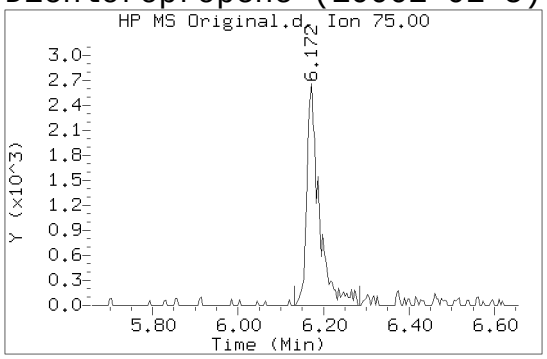
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071903.D
Inj Date : 19-JUL-2022 12:08
InstruID : voa6.i
LabSampID : VSTD000.5

cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

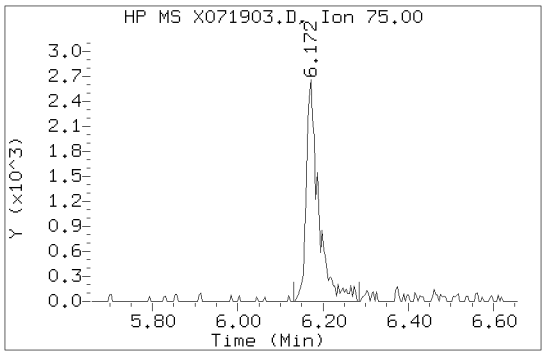
BEFORE

MASS
128
AREA
2258
HEIGHT
1011
25-Jul-2022
09:00
linh
pham



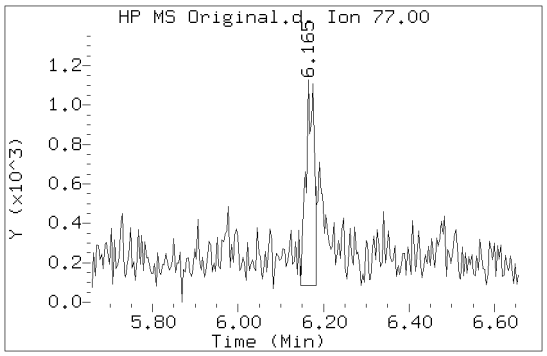
AFTER

MASS
75
AREA
5379
HEIGHT
2657
08-Sep-2022
12:20
linh
pham



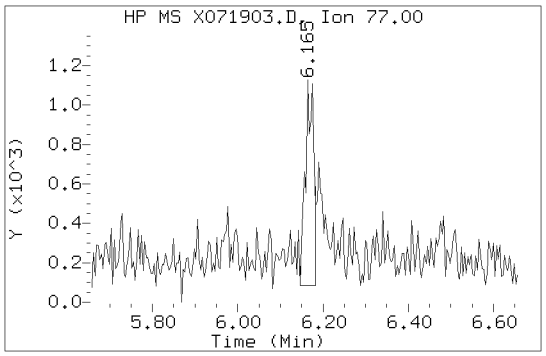
BEFORE

MASS
49
AREA
2606
HEIGHT
1091
25-Jul-2022
09:00
linh
pham



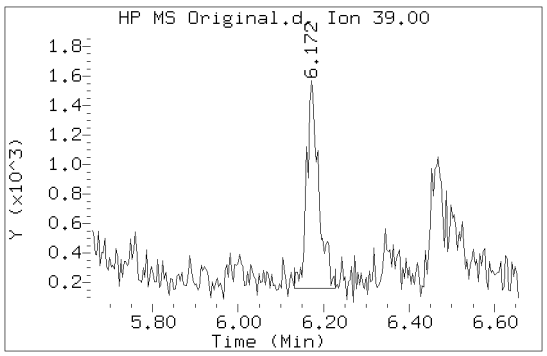
AFTER

MASS
77
AREA
1442
HEIGHT
1044
08-Sep-2022
12:20
linh
pham



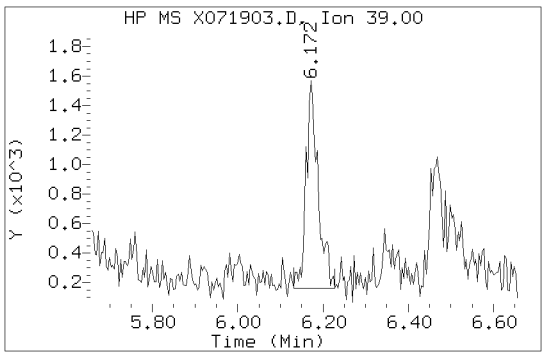
BEFORE

MASS
130
AREA
2598
HEIGHT
1041
25-Jul-2022
09:00
linh
pham



AFTER

MASS
39
AREA
2778
HEIGHT
1408
08-Sep-2022
12:20
linh
pham

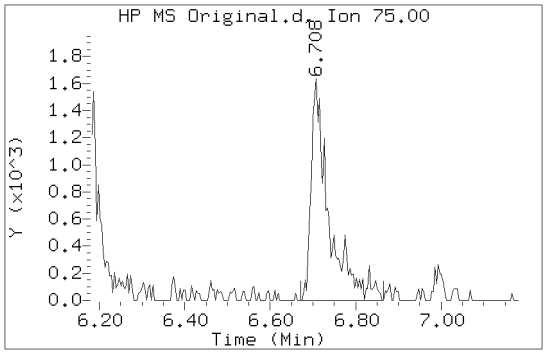


trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

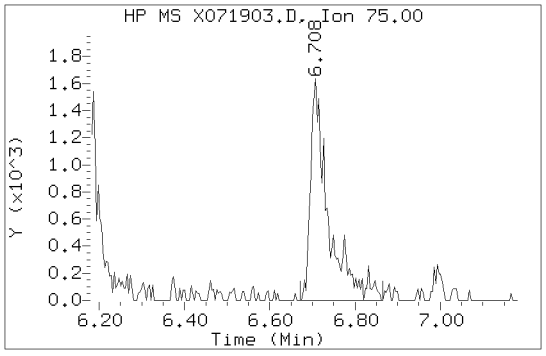
BEFORE

MASS
43
AREA
1760
HEIGHT
747
25-Jul-2022
09:00
linh
pham



AFTER

MASS
75
AREA
4702
HEIGHT
1636
08-Sep-2022
12:20
linh
pham



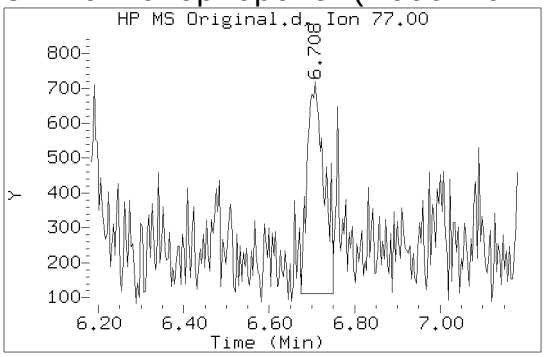
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071903.D
Inj Date : 19-JUL-2022 12:08
InstruID : voa6.i
LabSampID : VSTD000.5

trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

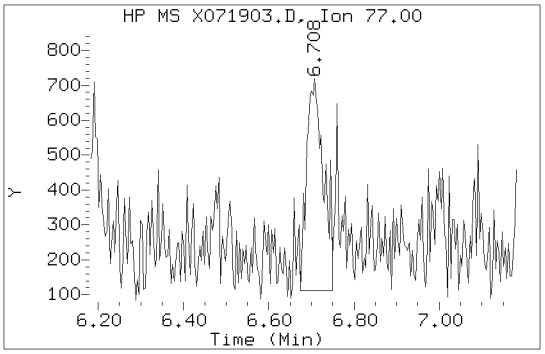
BEFORE

MASS
72
AREA
0
HEIGHT
0
25-Jul-2022
09:00
linh
pham



AFTER

MASS
77
AREA
1672
HEIGHT
607
08-Sep-2022
12:20
linh
pham

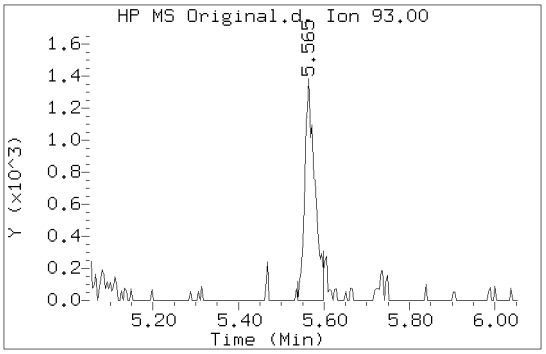


1,2-Dibromoethane (106-93-4)

Reason Code:

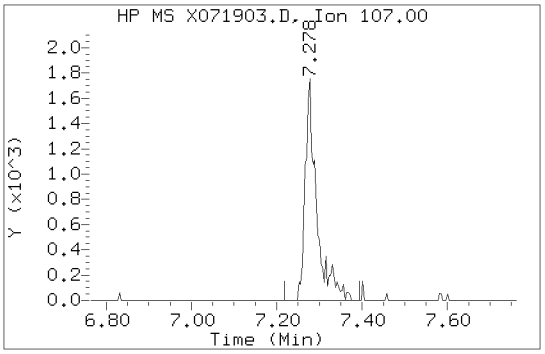
BEFORE

MASS
75
AREA
4702
HEIGHT
1636
25-Jul-2022
09:00
linh
pham



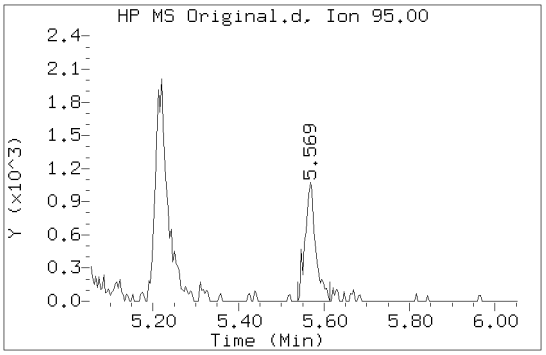
AFTER

MASS
107
AREA
3299
HEIGHT
1755
08-Sep-2022
12:20
linh
pham



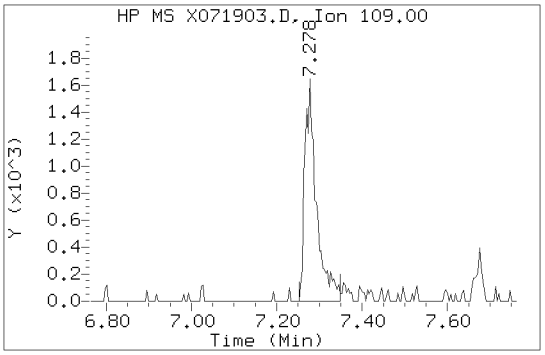
BEFORE

MASS
77
AREA
1672
HEIGHT
607
25-Jul-2022
09:00
linh
pham



AFTER

MASS
109
AREA
3147
HEIGHT
1645
08-Sep-2022
12:20
linh
pham

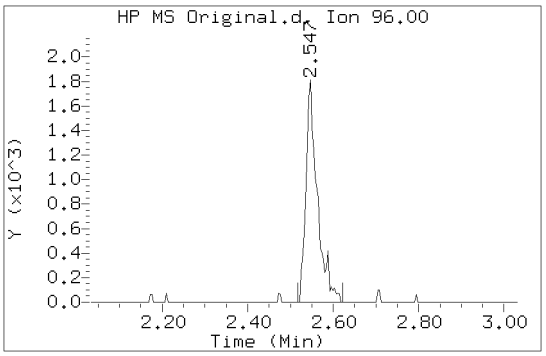


1,1,1,2-Tetrachloroethane (630-20-6)

Reason Code:

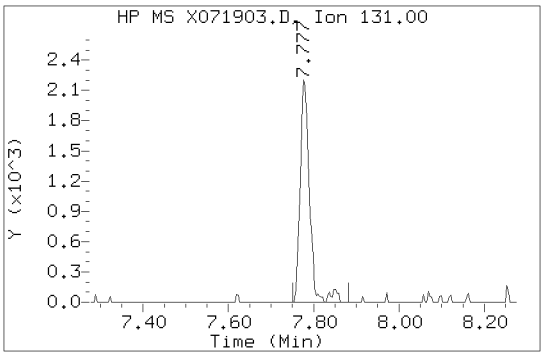
BEFORE

MASS
43
AREA
4464
HEIGHT
1764
25-Jul-2022
09:00
linh
pham



AFTER

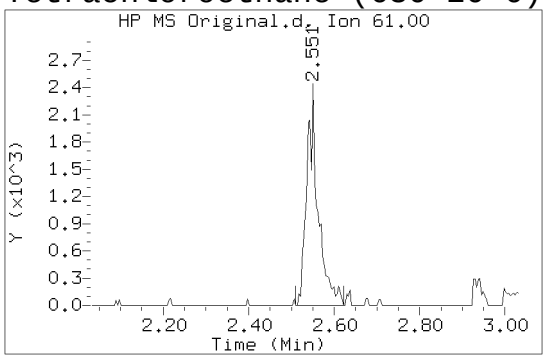
MASS
131
AREA
3465
HEIGHT
2203
08-Sep-2022
12:20
linh
pham



Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071903.D
Inj Date : 19-JUL-2022 12:08
InstruID : voa6.i
LabSampID : VSTD000.5

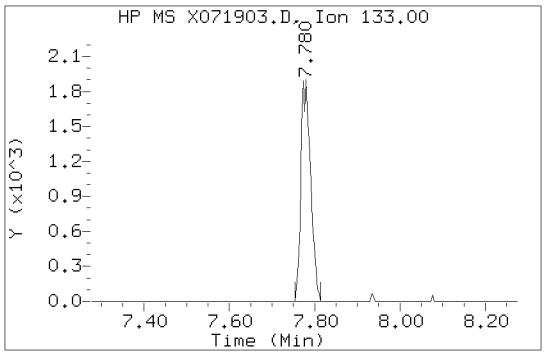
1,1,1,2-Tetrachloroethane (630-20-6)

BEFORE
MASS
58
AREA
1503
HEIGHT
1051
25-Jul-2022
09:00
linh
pham

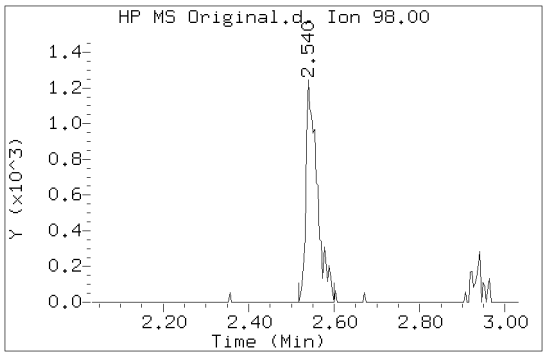


Reason Code:

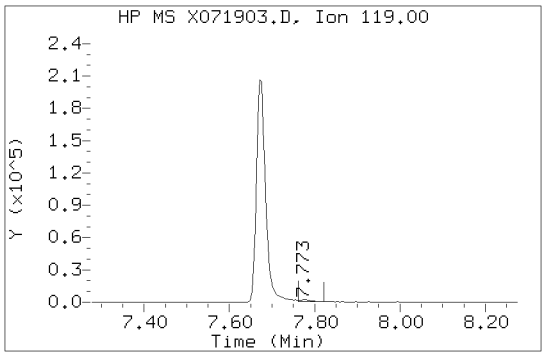
AFTER
MASS
133
AREA
3076
HEIGHT
1901
08-Sep-2022
12:20
linh
pham



BEFORE
MASS
100
AREA
16954
HEIGHT
9045
25-Jul-2022
09:00
linh
pham

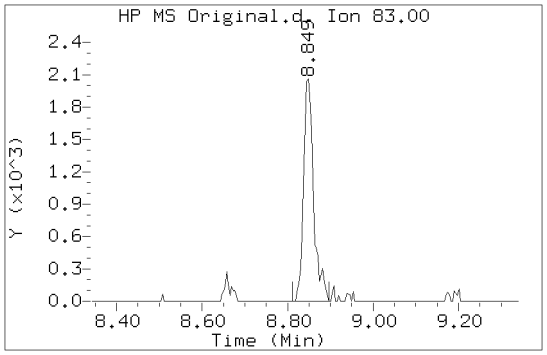


AFTER
MASS
119
AREA
3743
HEIGHT
2153
08-Sep-2022
12:20
linh
pham



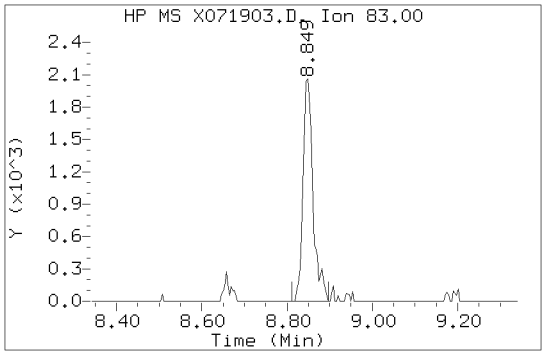
1,1,2,2-Tetrachloroethane (79-34-5)

BEFORE
MASS
101
AREA
3138
HEIGHT
2150
25-Jul-2022
09:00
linh
pham

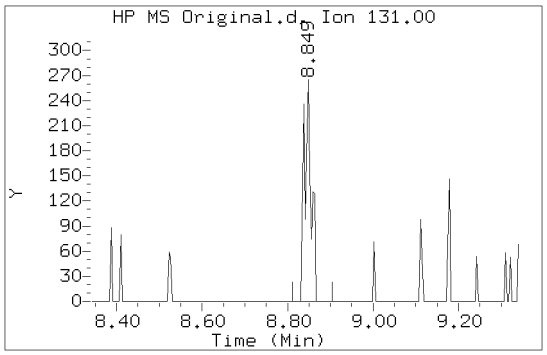


Reason Code:

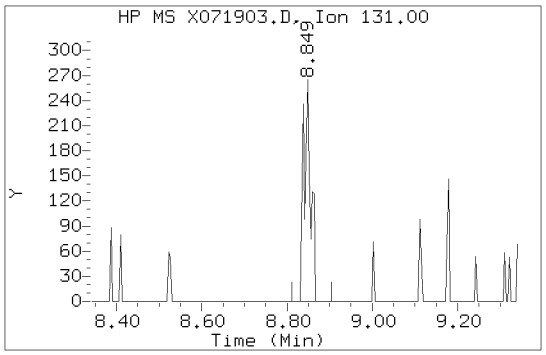
AFTER
MASS
83
AREA
3451
HEIGHT
2061
08-Sep-2022
12:20
linh
pham



BEFORE
MASS
151
AREA
2944
HEIGHT
1769
25-Jul-2022
09:00
linh
pham



AFTER
MASS
131
AREA
304
HEIGHT
265
08-Sep-2022
12:20
linh
pham



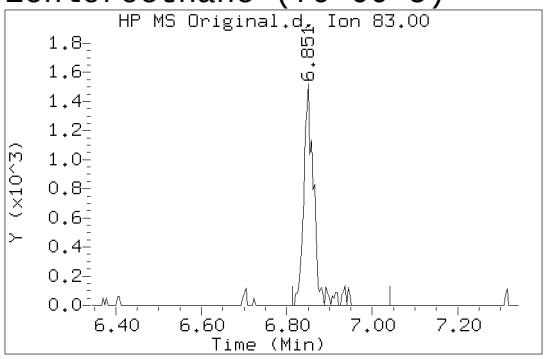
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071903.D
Inj Date : 19-JUL-2022 12:08
InstruID : voa6.i
LabSampID : VSTD000.5

1,1,2-Trichloroethane (79-00-5)

Reason Code:

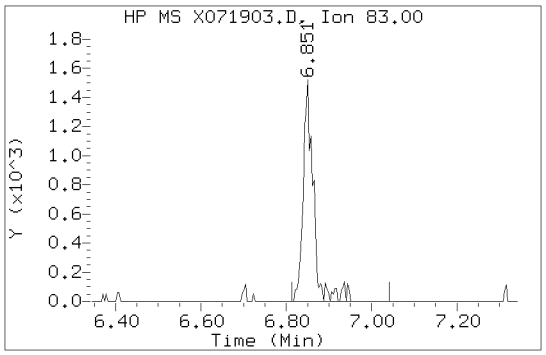
BEFORE

MASS
104
AREA
8853
HEIGHT
3020
25-Jul-2022
09:00
linh
pham



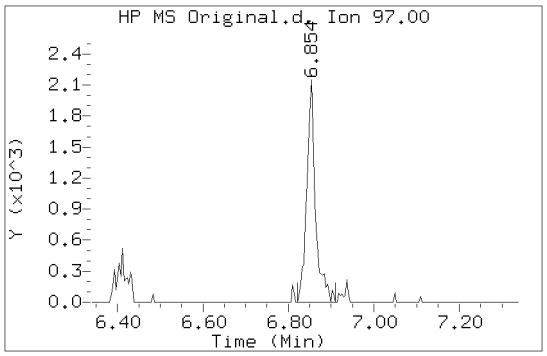
AFTER

MASS
83
AREA
2609
HEIGHT
1522
08-Sep-2022
12:20
linh
pham



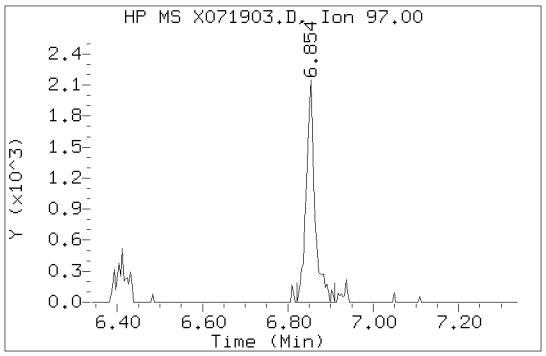
BEFORE

MASS
78
AREA
3427
HEIGHT
1842
25-Jul-2022
09:00
linh
pham



AFTER

MASS
97
AREA
3118
HEIGHT
2149
08-Sep-2022
12:20
linh
pham

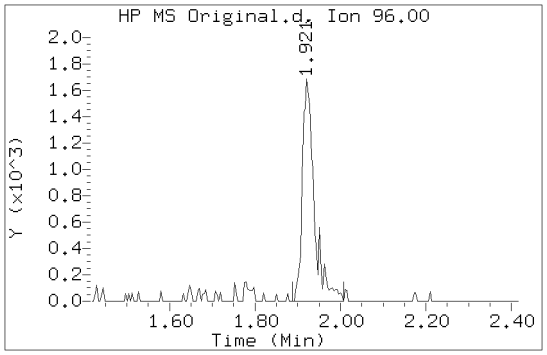


1,1-Dichloroethene (75-35-4)

Reason Code:

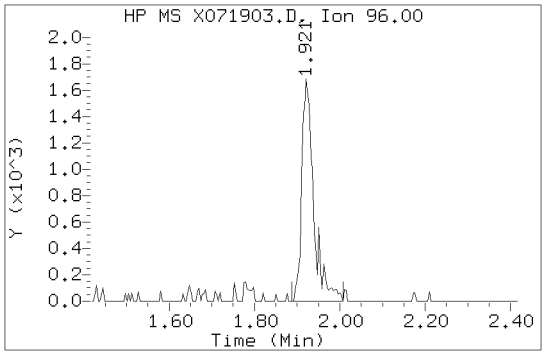
BEFORE

MASS
76
AREA
16886
HEIGHT
10303
25-Jul-2022
09:00
linh
pham



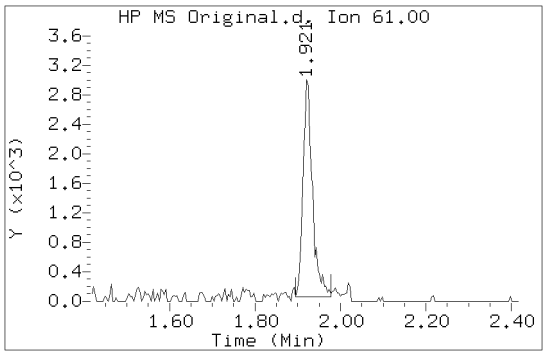
AFTER

MASS
96
AREA
3325
HEIGHT
1685
08-Sep-2022
12:20
linh
pham



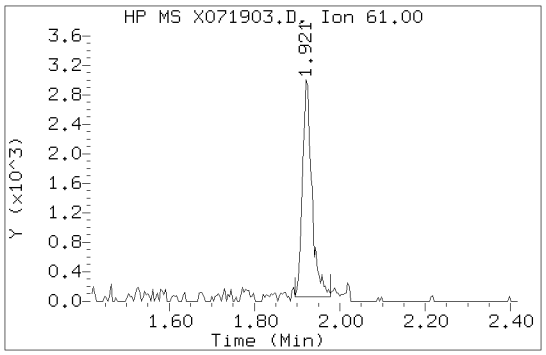
BEFORE

MASS
78
AREA
1233
HEIGHT
871
25-Jul-2022
09:00
linh
pham



AFTER

MASS
61
AREA
4630
HEIGHT
2947
08-Sep-2022
12:20
linh
pham



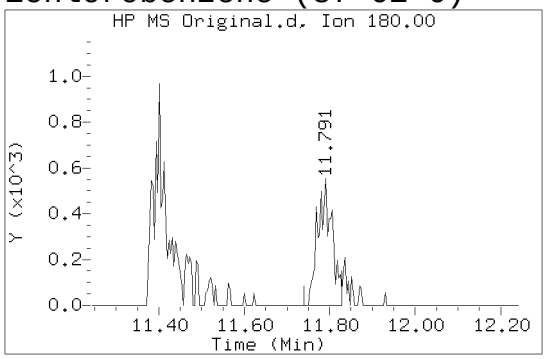
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071903.D
Inj Date : 19-JUL-2022 12:08
InstruID : voa6.i
LabSampID : VSTD000.5

1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

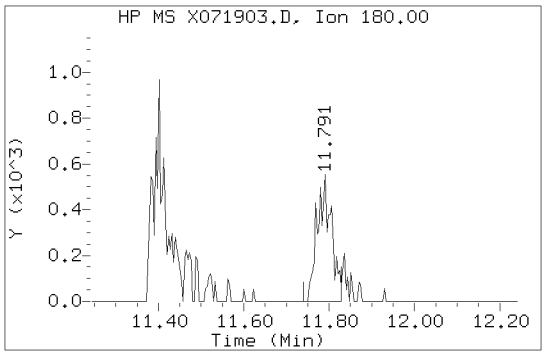
BEFORE

MASS
77
AREA
5133
HEIGHT
2125
25-Jul-2022
09:00
linh
pham



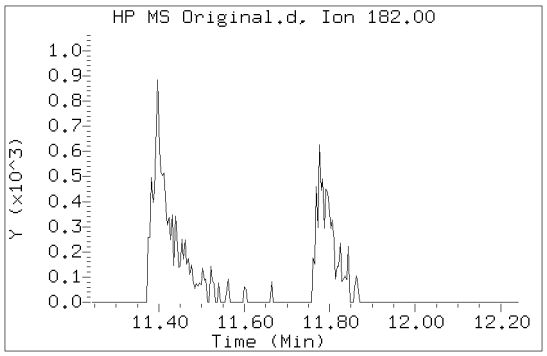
AFTER

MASS
180
AREA
1275
HEIGHT
555
08-Sep-2022
12:20
linh
pham



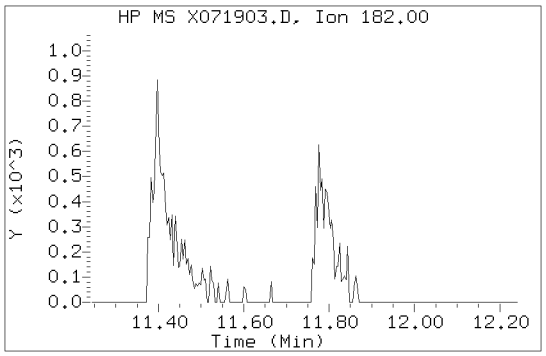
BEFORE

MASS
97
AREA
728
HEIGHT
479
25-Jul-2022
09:00
linh
pham



AFTER

MASS
182
AREA
0
HEIGHT
0
08-Sep-2022
12:20
linh
pham

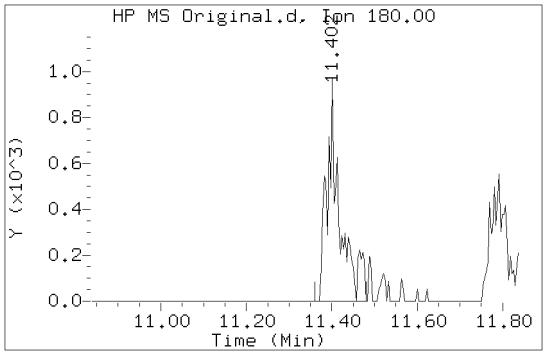


1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

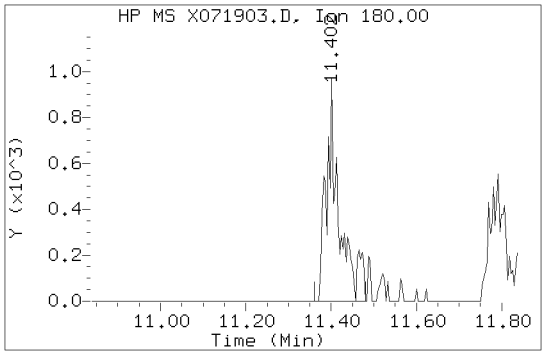
BEFORE

MASS
93
AREA
2298
HEIGHT
1384
25-Jul-2022
09:00
linh
pham



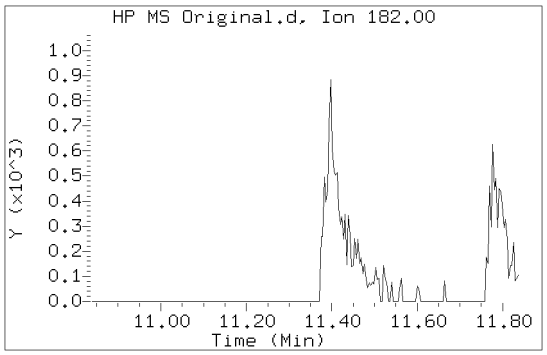
AFTER

MASS
180
AREA
2030
HEIGHT
968
08-Sep-2022
12:20
linh
pham



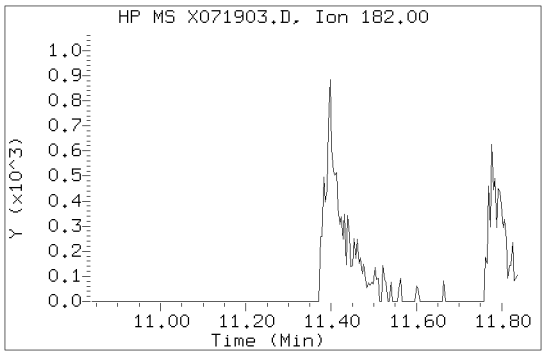
BEFORE

MASS
95
AREA
1884
HEIGHT
1077
25-Jul-2022
09:00
linh
pham



AFTER

MASS
182
AREA
0
HEIGHT
0
08-Sep-2022
12:20
linh
pham



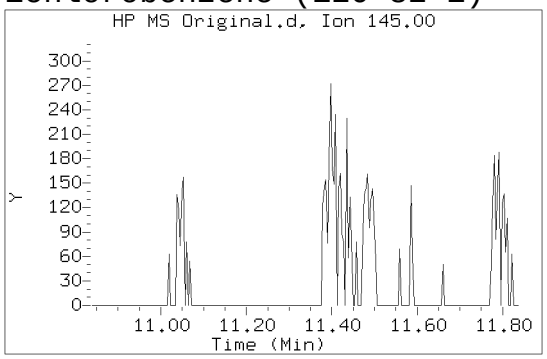
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071903.D
Inj Date : 19-JUL-2022 12:08
InstruID : voa6.i
LabSampID : VSTD000.5

1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

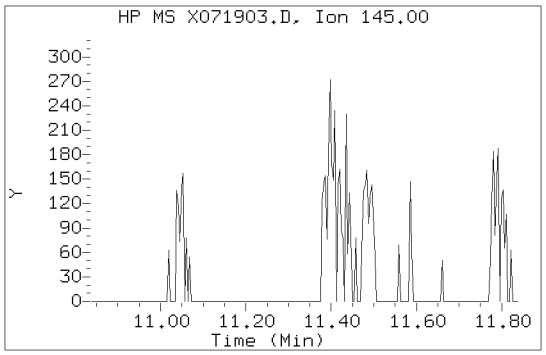
BEFORE

MASS
174
AREA
2657
HEIGHT
1337
25-Jul-2022
09:00
linh
pham



AFTER

MASS
145
AREA
0
HEIGHT
0
08-Sep-2022
12:20
linh
pham

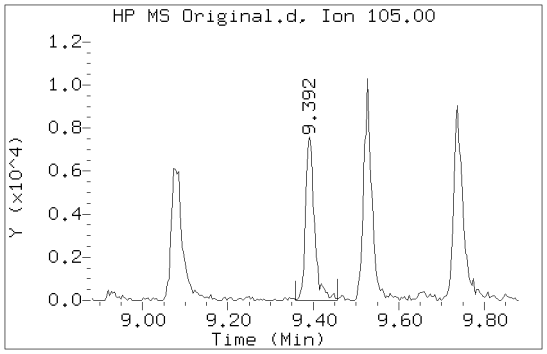


1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

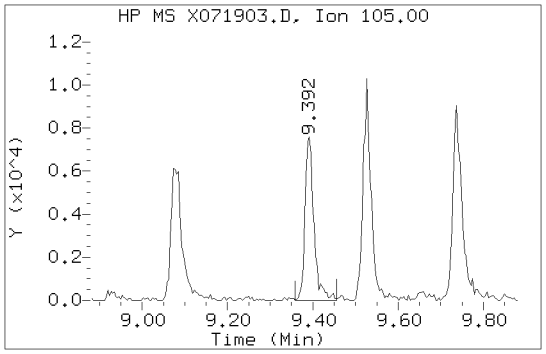
BEFORE

MASS
76
AREA
5230
HEIGHT
3017
25-Jul-2022
09:00
linh
pham



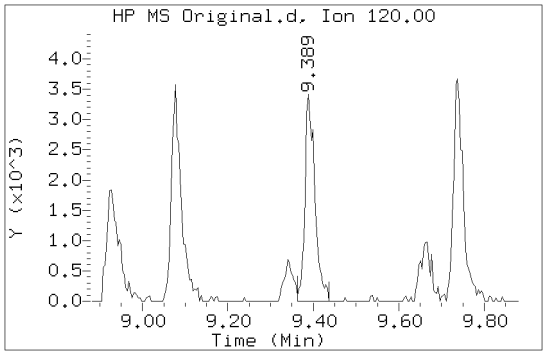
AFTER

MASS
105
AREA
11226
HEIGHT
7596
08-Sep-2022
12:20
linh
pham



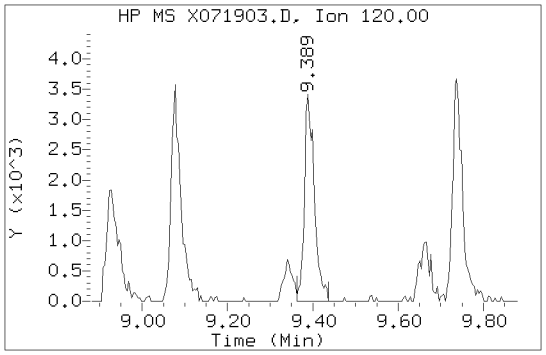
BEFORE

MASS
78
AREA
2030
HEIGHT
1255
25-Jul-2022
09:00
linh
pham



AFTER

MASS
120
AREA
5587
HEIGHT
3418
08-Sep-2022
12:20
linh
pham

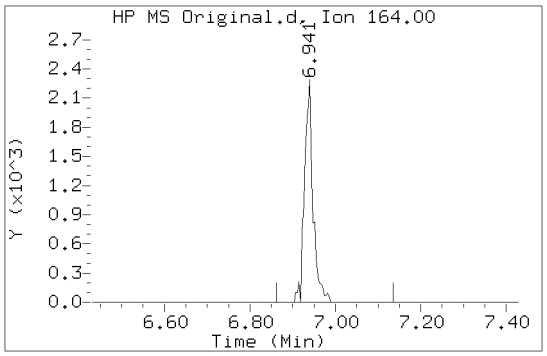


Tetrachloroethene (127-18-4)

Reason Code:

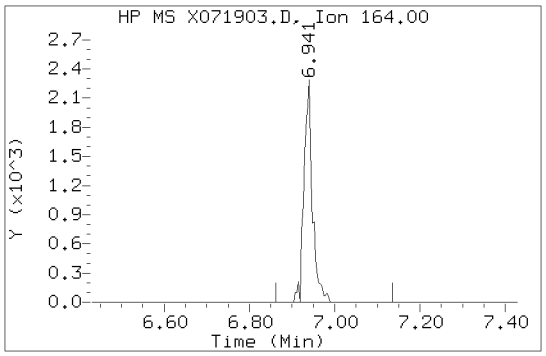
BEFORE

MASS
63
AREA
3868
HEIGHT
1977
25-Jul-2022
09:00
linh
pham



AFTER

MASS
164
AREA
3226
HEIGHT
2287
08-Sep-2022
12:20
linh
pham



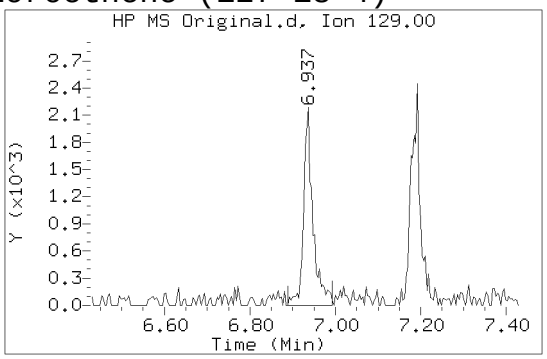
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071903.D
Inj Date : 19-JUL-2022 12:08
InstruID : voa6.i
LabSampID : VSTD000.5

Tetrachloroethene (127-18-4)

Reason Code:

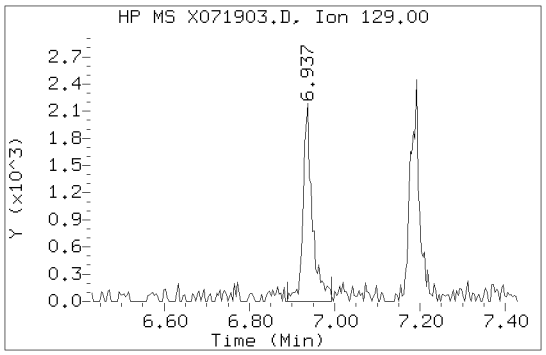
BEFORE

MASS
112
AREA
91
HEIGHT
181
25-Jul-2022
09:00
linh
pham



AFTER

MASS
129
AREA
3404
HEIGHT
2186
08-Sep-2022
12:20
linh
pham

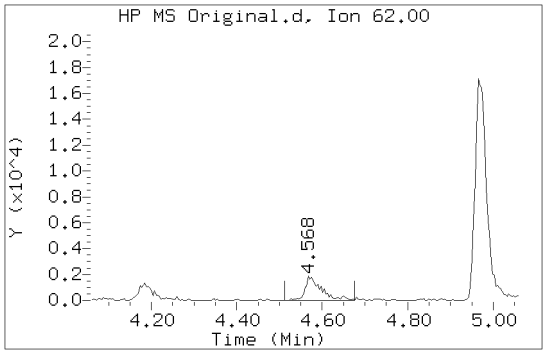


1,2-Dichloroethane (107-06-2)

Reason Code:

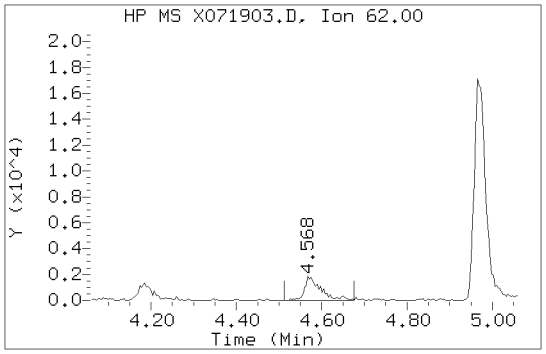
BEFORE

MASS
146
AREA
5548
HEIGHT
3293
25-Jul-2022
09:00
linh
pham



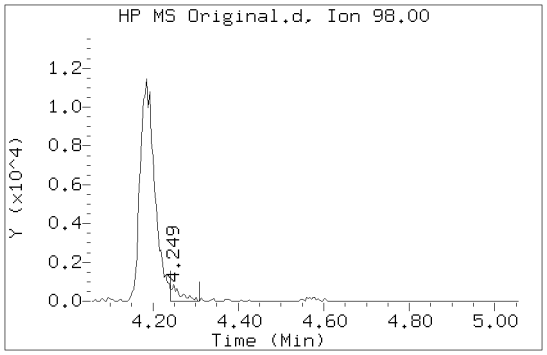
AFTER

MASS
62
AREA
4888
HEIGHT
1898
08-Sep-2022
12:20
linh
pham



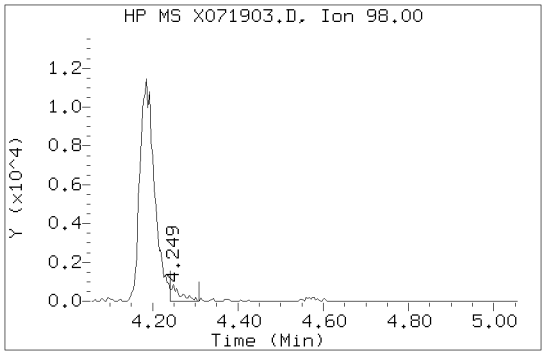
BEFORE

MASS
111
AREA
2270
HEIGHT
1209
25-Jul-2022
09:00
linh
pham



AFTER

MASS
98
AREA
1332
HEIGHT
847
08-Sep-2022
12:20
linh
pham

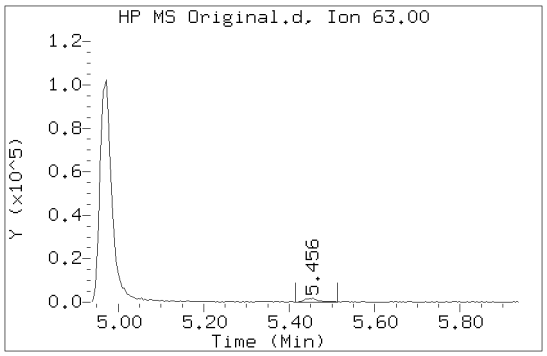


1,2-Dichloropropane (78-87-5)

Reason Code:

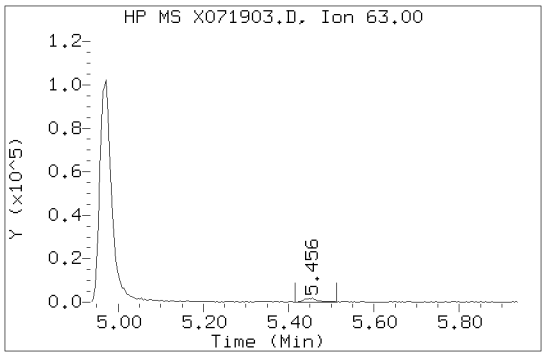
BEFORE

MASS
96
AREA
3384
HEIGHT
1813
25-Jul-2022
09:00
linh
pham



AFTER

MASS
63
AREA
3868
HEIGHT
1977
08-Sep-2022
12:20
linh
pham



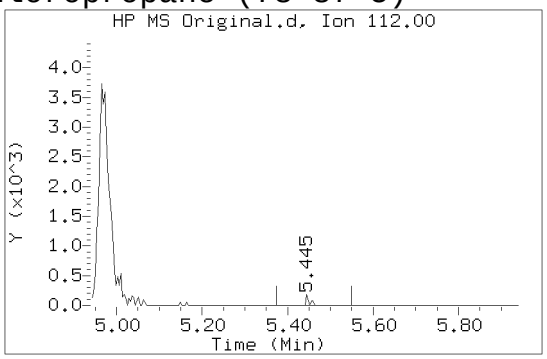
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071903.D
Inj Date : 19-JUL-2022 12:08
InstruID : voa6.i
LabSampID : VSTD000.5

1,2-Dichloropropane (78-87-5)

Reason Code:

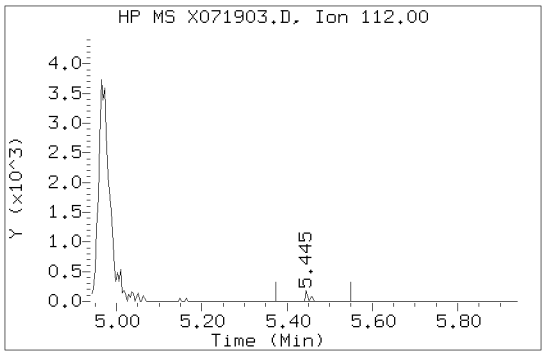
BEFORE

MASS
61
AREA
4515
HEIGHT
2443
25-Jul-2022
09:00
linh
pham



AFTER

MASS
112
AREA
91
HEIGHT
181
08-Sep-2022
12:20
linh
pham

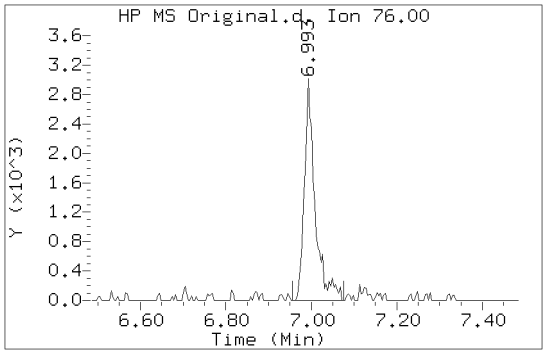


1,3-Dichloropropane (142-28-9)

Reason Code:

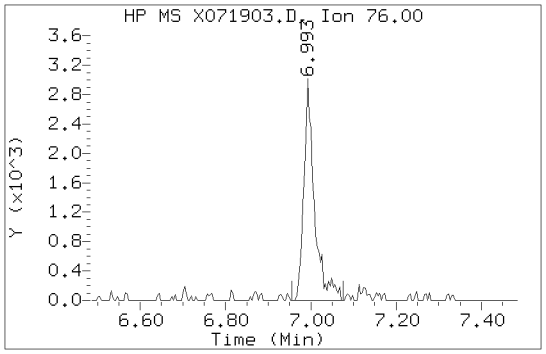
BEFORE

MASS
63
AREA
5606
HEIGHT
2531
25-Jul-2022
09:00
linh
pham



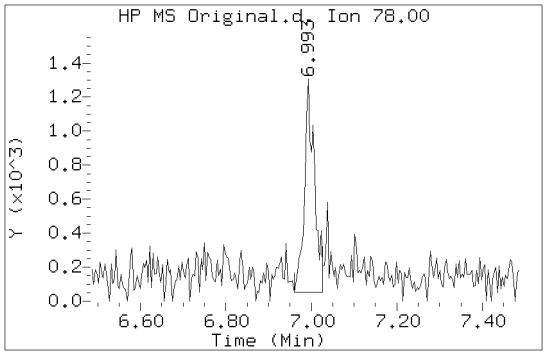
AFTER

MASS
76
AREA
5230
HEIGHT
3017
08-Sep-2022
12:20
linh
pham



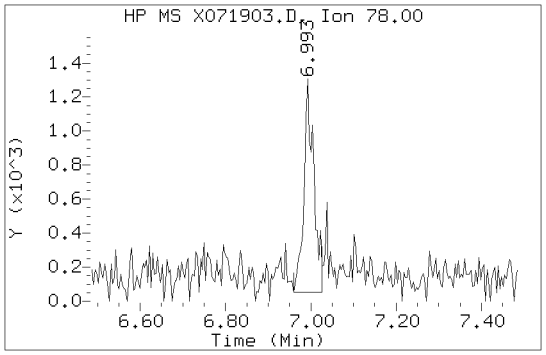
BEFORE

MASS
65
AREA
1710
HEIGHT
852
25-Jul-2022
09:00
linh
pham



AFTER

MASS
78
AREA
2030
HEIGHT
1255
08-Sep-2022
12:20
linh
pham

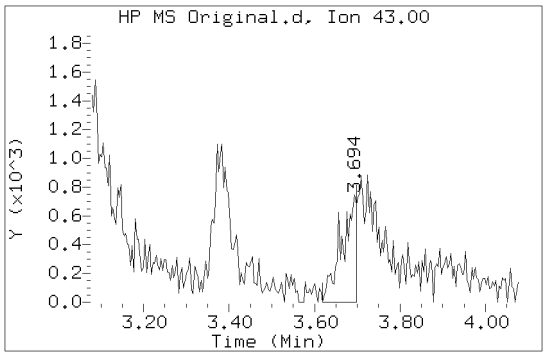


2-Butanone (78-93-3)

Reason Code:

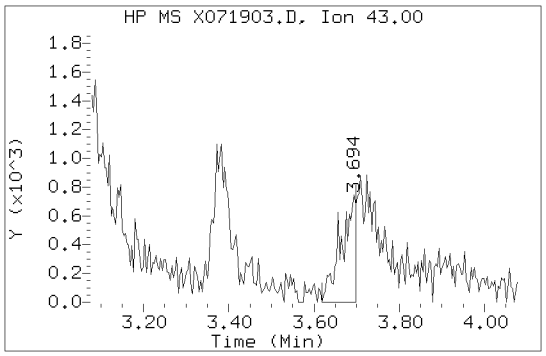
BEFORE

MASS
83
AREA
3451
HEIGHT
2061
25-Jul-2022
09:00
linh
pham



AFTER

MASS
43
AREA
1760
HEIGHT
747
08-Sep-2022
12:20
linh
pham



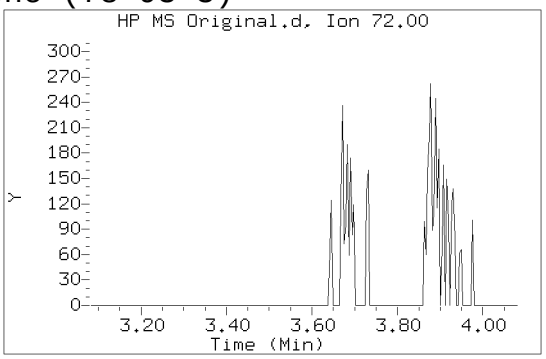
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071903.D
Inj Date : 19-JUL-2022 12:08
InstruID : voa6.i
LabSampID : VSTD000.5

2-Butanone (78-93-3)

Reason Code:

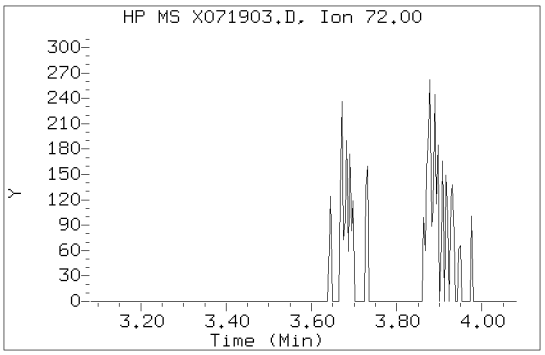
BEFORE

MASS
131
AREA
304
HEIGHT
265
25-Jul-2022
09:00
linh
pham



AFTER

MASS
72
AREA
0
HEIGHT
0
08-Sep-2022
12:20
linh
pham

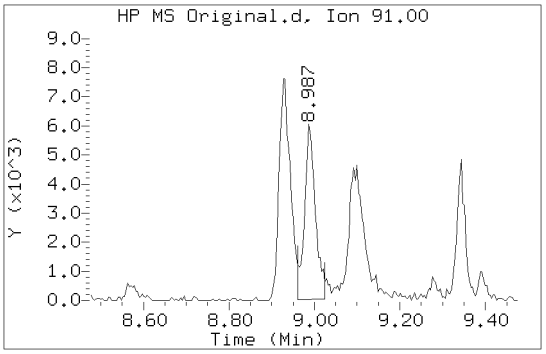


2-Chlorotoluene (95-49-8)

Reason Code:

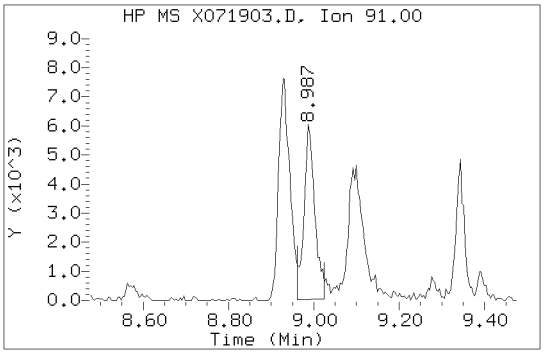
BEFORE

MASS
164
AREA
3226
HEIGHT
2287
25-Jul-2022
09:00
linh
pham



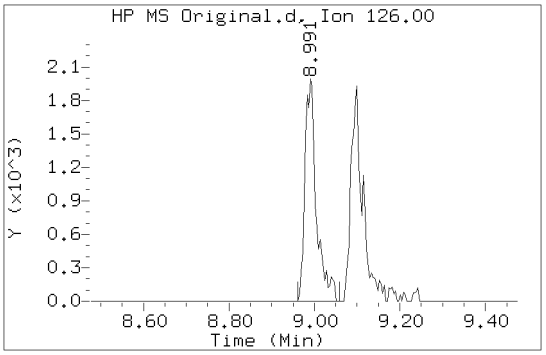
AFTER

MASS
91
AREA
10810
HEIGHT
6020
08-Sep-2022
12:20
linh
pham



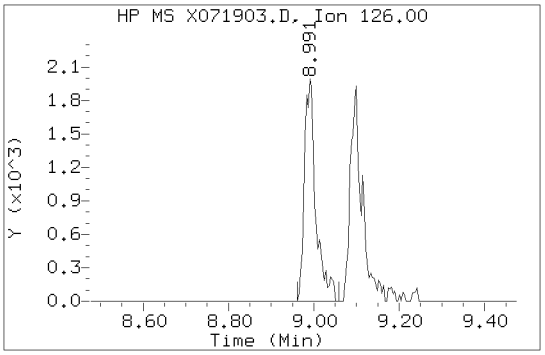
BEFORE

MASS
129
AREA
3404
HEIGHT
2186
25-Jul-2022
09:00
linh
pham



AFTER

MASS
126
AREA
3731
HEIGHT
1993
08-Sep-2022
12:20
linh
pham

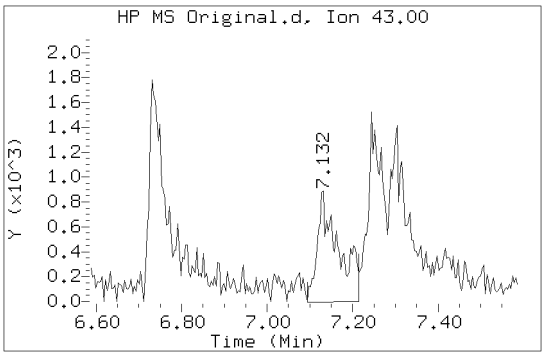


2-Hexanone (591-78-6)

Reason Code:

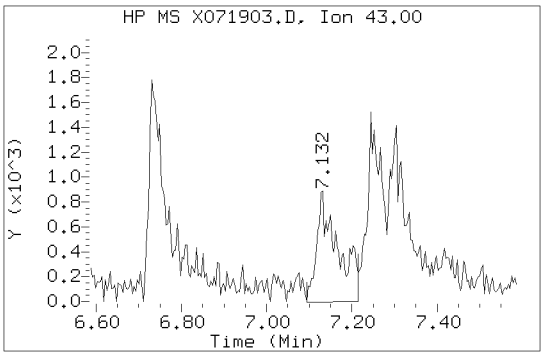
BEFORE

MASS
97
AREA
5496
HEIGHT
2194
25-Jul-2022
09:00
linh
pham



AFTER

MASS
43
AREA
3055
HEIGHT
891
08-Sep-2022
12:20
linh
pham



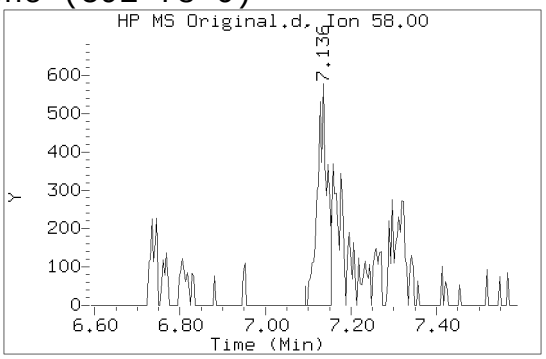
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071903.D
Inj Date : 19-JUL-2022 12:08
InstruID : voa6.i
LabSampID : VSTD000.5

2-Hexanone (591-78-6)

Reason Code:

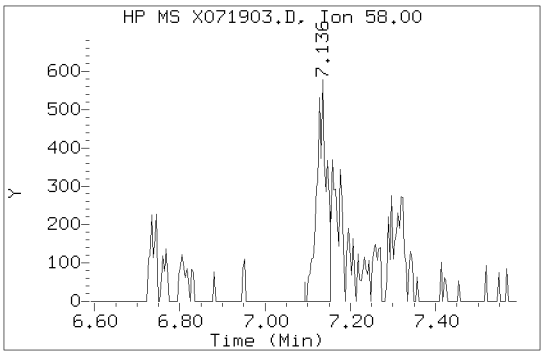
BEFORE

MASS
99
AREA
3434
HEIGHT
1650
25-Jul-2022
09:00
linh
pham



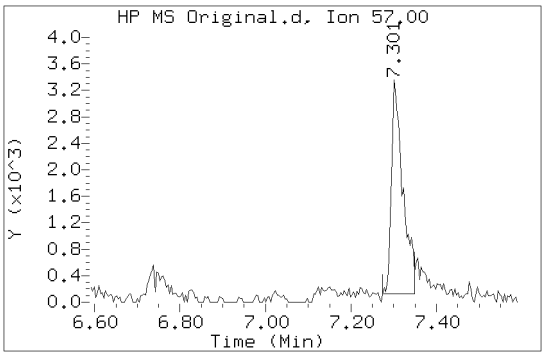
AFTER

MASS
58
AREA
919
HEIGHT
578
08-Sep-2022
12:20
linh
pham



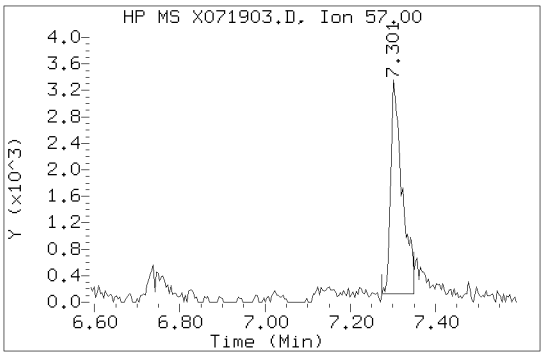
BEFORE

MASS
61
AREA
2652
HEIGHT
1251
25-Jul-2022
09:00
linh
pham



AFTER

MASS
57
AREA
5980
HEIGHT
3228
08-Sep-2022
12:20
linh
pham

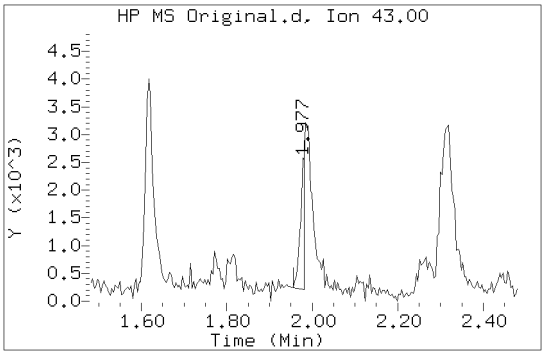


Acetone (67-64-1)

Reason Code:

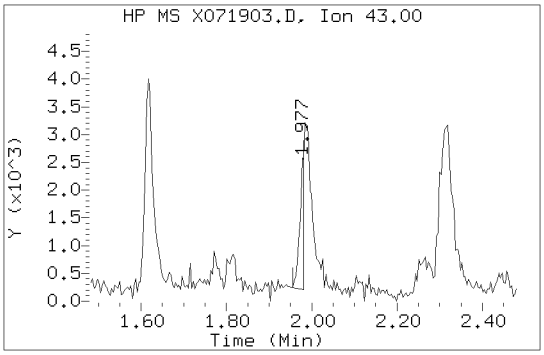
BEFORE

MASS
62
AREA
4102
HEIGHT
3481
25-Jul-2022
09:00
linh
pham



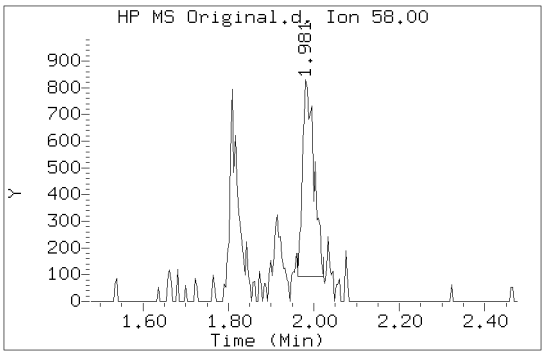
AFTER

MASS
43
AREA
1762
HEIGHT
2368
08-Sep-2022
12:20
linh
pham



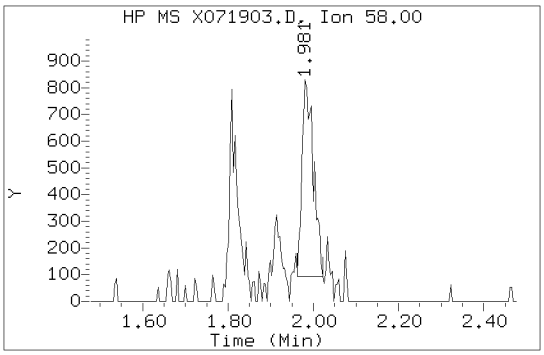
BEFORE

MASS
64
AREA
3620
HEIGHT
1767
25-Jul-2022
09:00
linh
pham



AFTER

MASS
58
AREA
1379
HEIGHT
737
08-Sep-2022
12:20
linh
pham

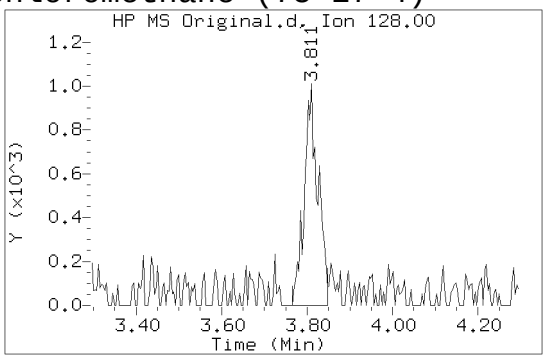


Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071903.D
Inj Date : 19-JUL-2022 12:08
InstruID : voa6.i
LabSampID : VSTD000.5

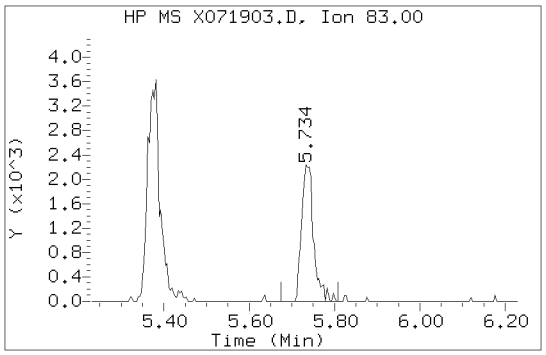
Bromodichloromethane (75-27-4)

Reason Code:

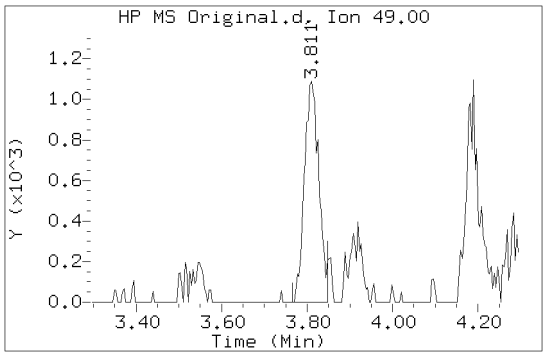
BEFORE
MASS
112
AREA
9208
HEIGHT
5442
25-Jul-2022
09:00
linh
pham



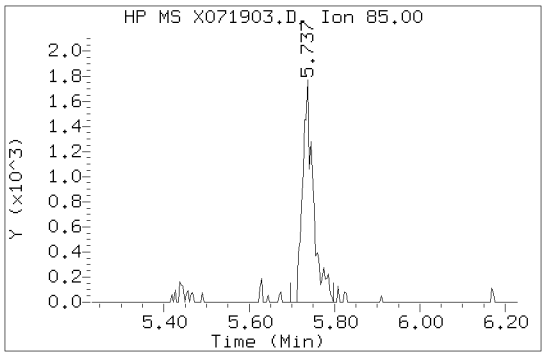
AFTER
MASS
83
AREA
4485
HEIGHT
2236
08-Sep-2022
12:20
linh
pham



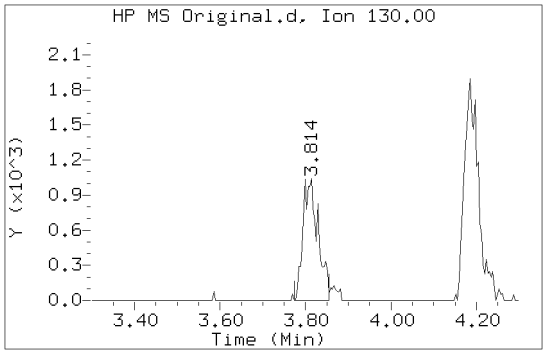
BEFORE
MASS
77
AREA
6659
HEIGHT
3709
25-Jul-2022
09:00
linh
pham



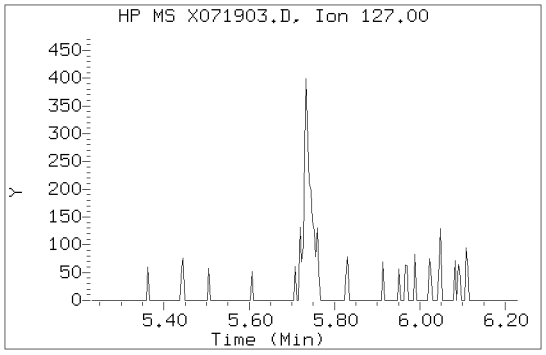
AFTER
MASS
85
AREA
3124
HEIGHT
1771
08-Sep-2022
12:20
linh
pham



BEFORE
MASS
114
AREA
3227
HEIGHT
1854
25-Jul-2022
09:00
linh
pham



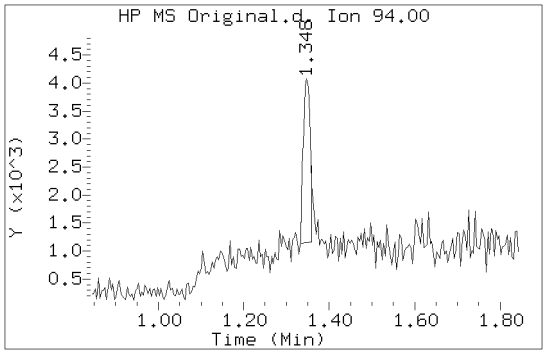
AFTER
MASS
127
AREA
0
HEIGHT
0
08-Sep-2022
12:20
linh
pham



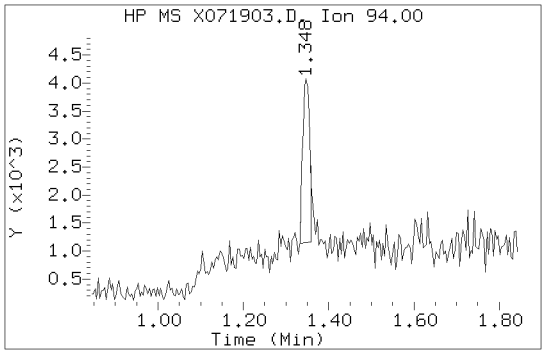
Bromomethane (74-83-9)

Reason Code:

BEFORE
MASS
83
AREA
6190
HEIGHT
2614
25-Jul-2022
09:00
linh
pham



AFTER
MASS
94
AREA
3413
HEIGHT
2924
08-Sep-2022
12:20
linh
pham



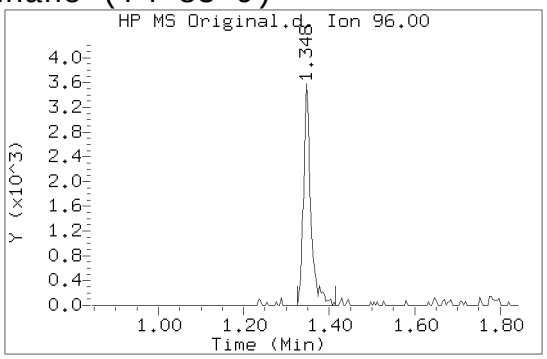
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071903.D
Inj Date : 19-JUL-2022 12:08
InstruID : voa6.i
LabSampID : VSTD000.5

Bromomethane (74-83-9)

Reason Code:

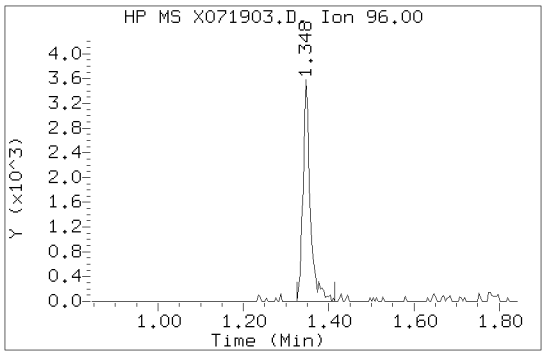
BEFORE

MASS
85
AREA
4424
HEIGHT
1752
25-Jul-2022
09:00
linh
pham



AFTER

MASS
96
AREA
4393
HEIGHT
3581
08-Sep-2022
12:20
linh
pham

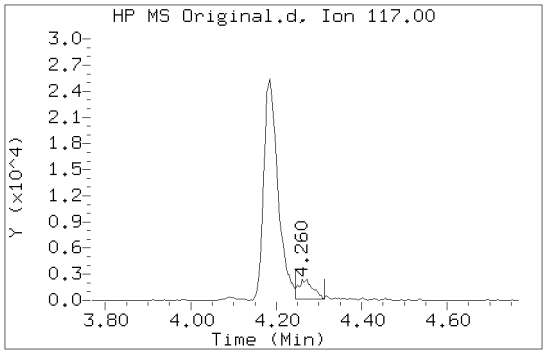


Carbon Tetrachloride (56-23-5)

Reason Code:

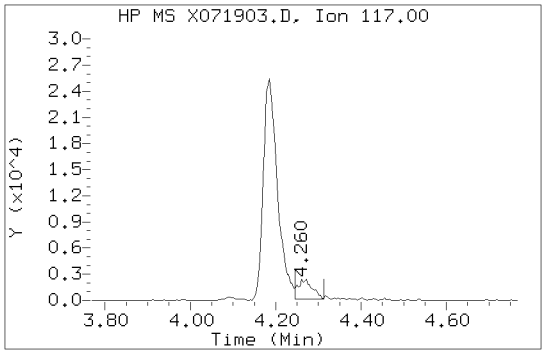
BEFORE

MASS
96
AREA
3635
HEIGHT
1411
25-Jul-2022
09:00
linh
pham



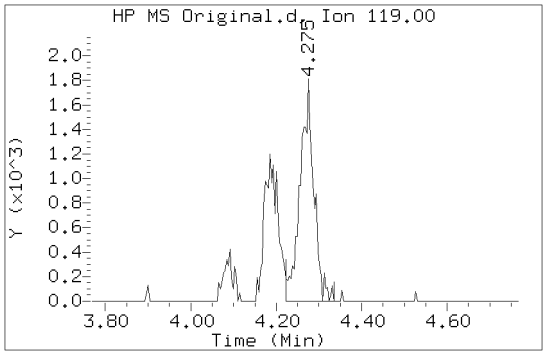
AFTER

MASS
117
AREA
5505
HEIGHT
2312
08-Sep-2022
12:20
linh
pham



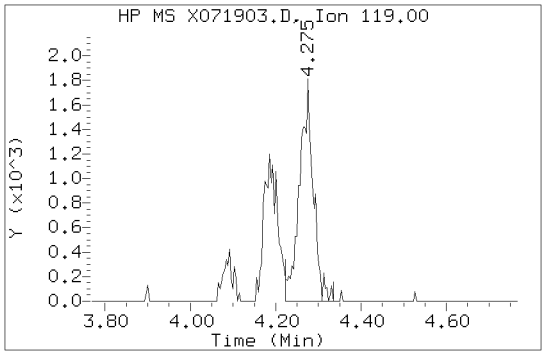
BEFORE

MASS
61
AREA
5502
HEIGHT
1984
25-Jul-2022
09:00
linh
pham



AFTER

MASS
119
AREA
4116
HEIGHT
1812
08-Sep-2022
12:20
linh
pham

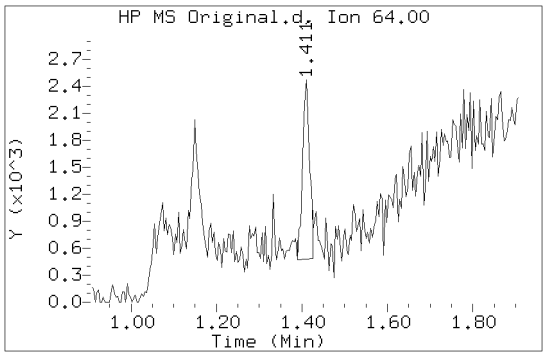


Chloroethane (75-00-3)

Reason Code:

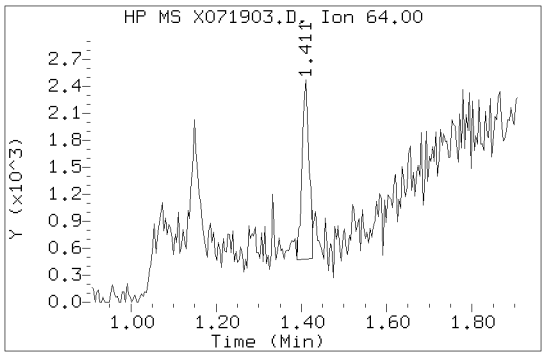
BEFORE

MASS
117
AREA
971157
HEIGHT
655204
25-Jul-2022
09:00
linh
pham



AFTER

MASS
64
AREA
2356
HEIGHT
1989
08-Sep-2022
12:20
linh
pham



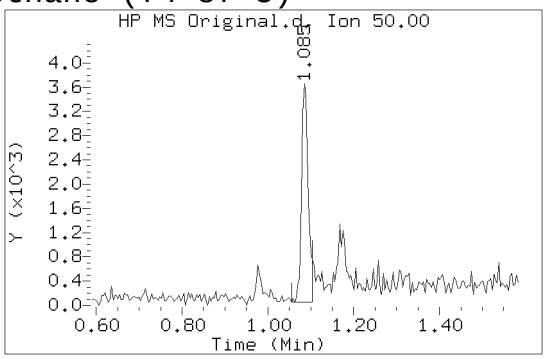
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071903.D
Inj Date : 19-JUL-2022 12:08
InstruID : voa6.i
LabSampID : VSTD000.5

Chloromethane (74-87-3)

Reason Code:

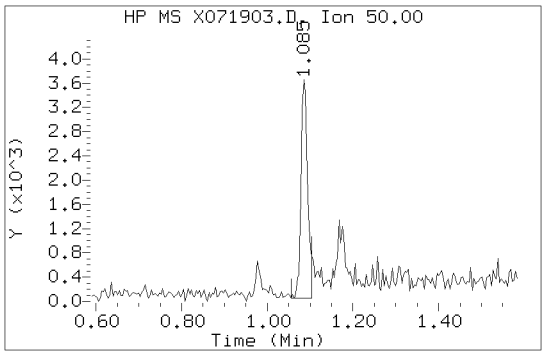
BEFORE

MASS
114
AREA
1081359
HEIGHT
557626
25-Jul-2022
09:00
linh
pham



AFTER

MASS
50
AREA
3959
HEIGHT
3607
08-Sep-2022
12:20
linh
pham

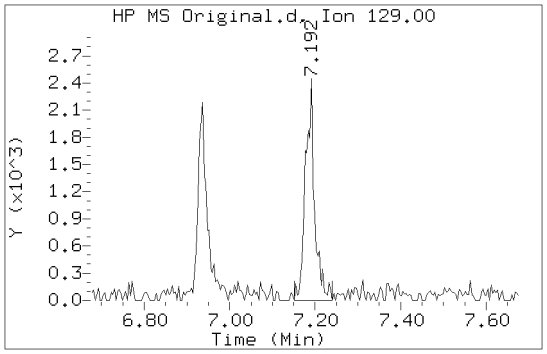


Dibromochloromethane (124-48-1)

Reason Code:

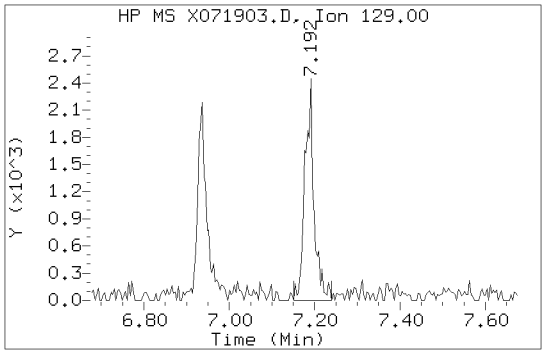
BEFORE

MASS
106
AREA
10839
HEIGHT
5861
25-Jul-2022
09:00
linh
pham



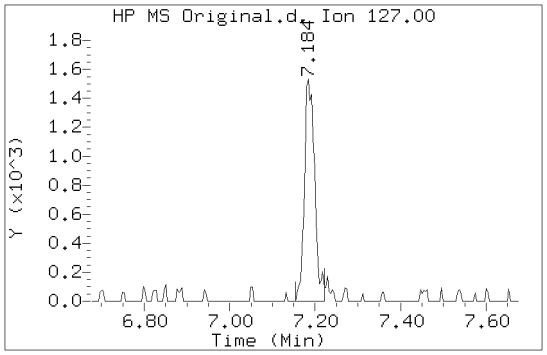
AFTER

MASS
129
AREA
3661
HEIGHT
2448
08-Sep-2022
12:20
linh
pham



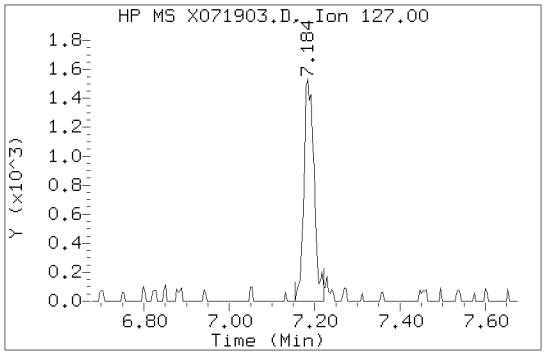
BEFORE

MASS
91
AREA
22202
HEIGHT
11255
25-Jul-2022
09:00
linh
pham



AFTER

MASS
127
AREA
2593
HEIGHT
1534
08-Sep-2022
12:20
linh
pham

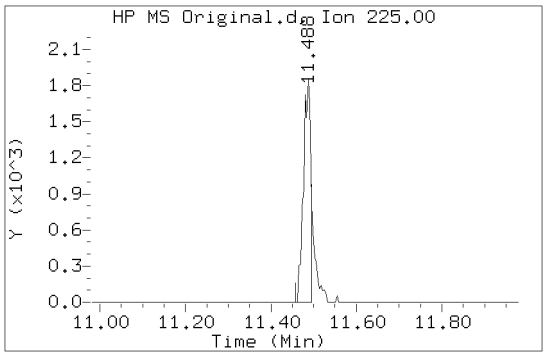


Hexachlorobutadiene (87-68-3)

Reason Code:

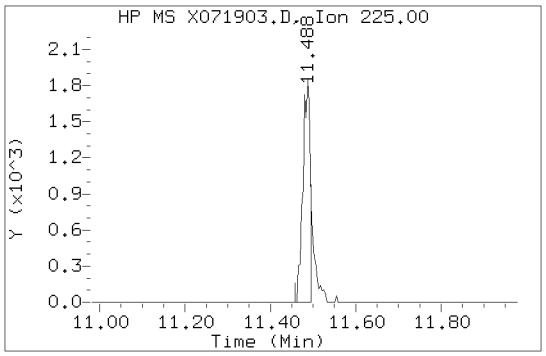
BEFORE

MASS
91
AREA
14364
HEIGHT
7624
25-Jul-2022
09:00
linh
pham



AFTER

MASS
225
AREA
2233
HEIGHT
1848
08-Sep-2022
12:20
linh
pham



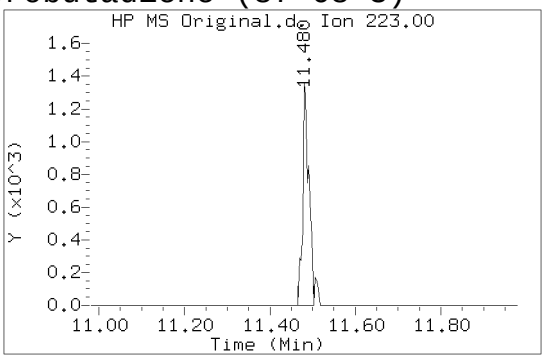
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071903.D
Inj Date : 19-JUL-2022 12:08
InstruID : voa6.i
LabSampID : VSTD000.5

Hexachlorobutadiene (87-68-3)

Reason Code:

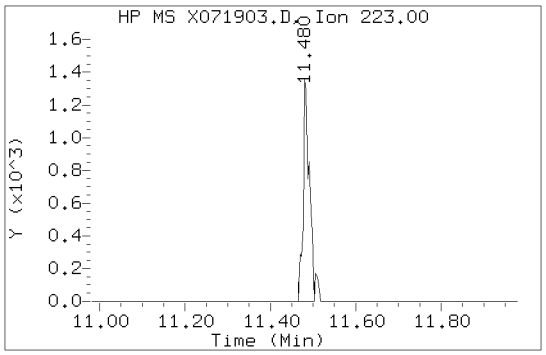
BEFORE

MASS
120
AREA
3739
HEIGHT
1832
25-Jul-2022
09:00
linh
pham



AFTER

MASS
223
AREA
1401
HEIGHT
1354
08-Sep-2022
12:20
linh
pham

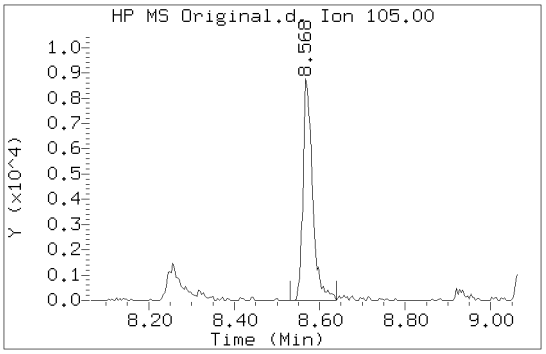


Isopropylbenzene (98-82-8)

Reason Code:

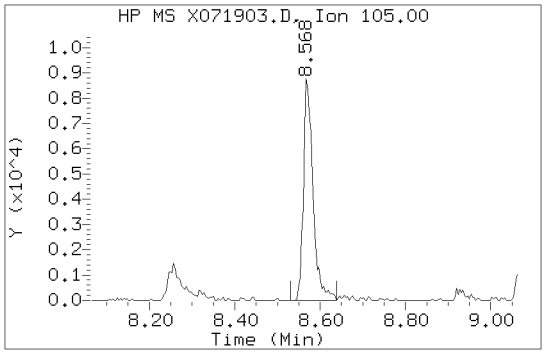
BEFORE

MASS
91
AREA
10810
HEIGHT
6020
25-Jul-2022
09:00
linh
pham



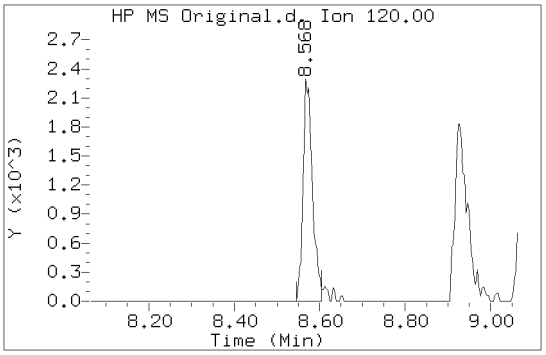
AFTER

MASS
105
AREA
13970
HEIGHT
8770
08-Sep-2022
12:20
linh
pham



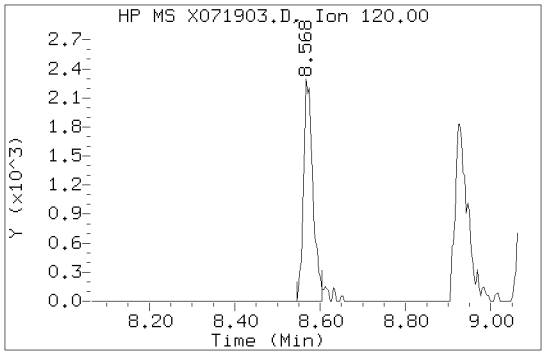
BEFORE

MASS
126
AREA
3731
HEIGHT
1993
25-Jul-2022
09:00
linh
pham



AFTER

MASS
120
AREA
3569
HEIGHT
2296
08-Sep-2022
12:20
linh
pham

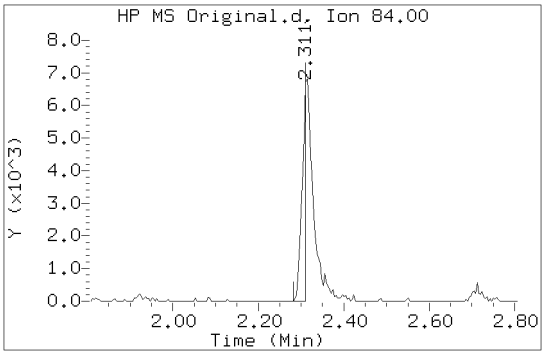


Methylene Chloride (75-09-2)

Reason Code:

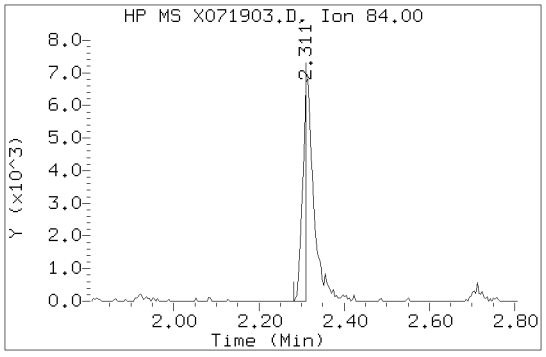
BEFORE

MASS
91
AREA
11731
HEIGHT
4585
25-Jul-2022
09:00
linh
pham



AFTER

MASS
84
AREA
4801
HEIGHT
6706
08-Sep-2022
12:20
linh
pham



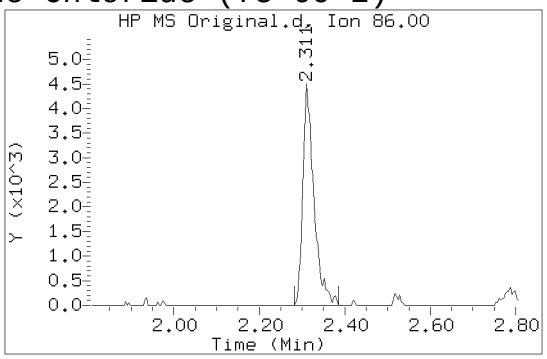
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071903.D
Inj Date : 19-JUL-2022 12:08
InstruID : voa6.i
LabSampID : VSTD000.5

Methylene Chloride (75-09-2)

Reason Code:

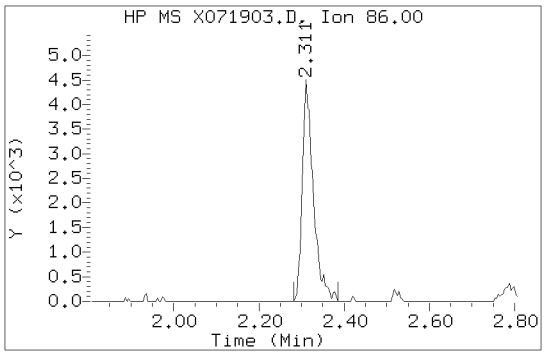
BEFORE

MASS 126
AREA 3659
HEIGHT 1928
25-Jul-2022 09:00
linh
pham



AFTER

MASS 86
AREA 8290
HEIGHT 4505
08-Sep-2022 12:20
linh
pham

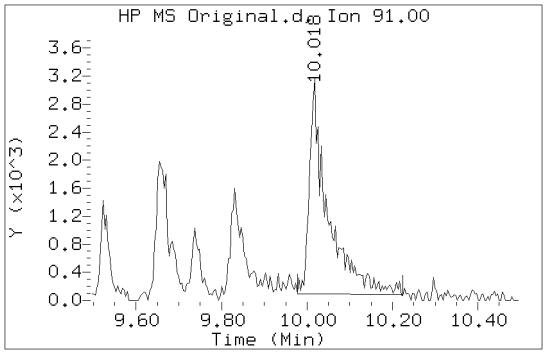


n-Butylbenzene (104-51-8)

Reason Code:

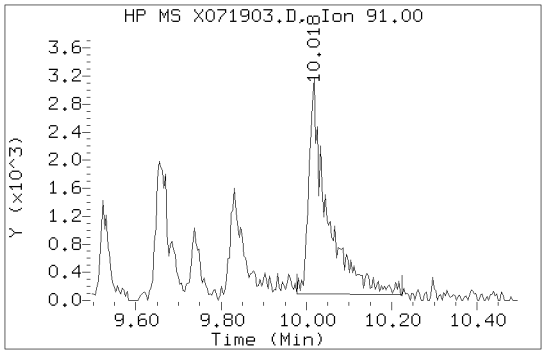
BEFORE

MASS 119
AREA 9259
HEIGHT 6692
25-Jul-2022 09:00
linh
pham



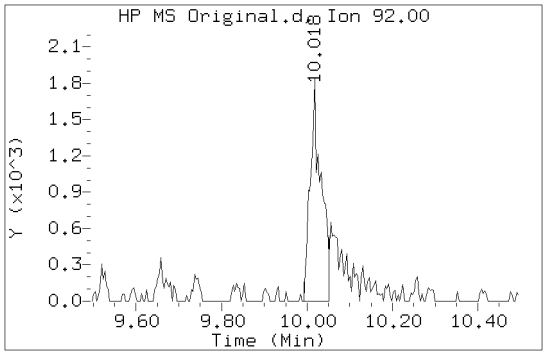
AFTER

MASS 91
AREA 9255
HEIGHT 3074
08-Sep-2022 12:20
linh
pham



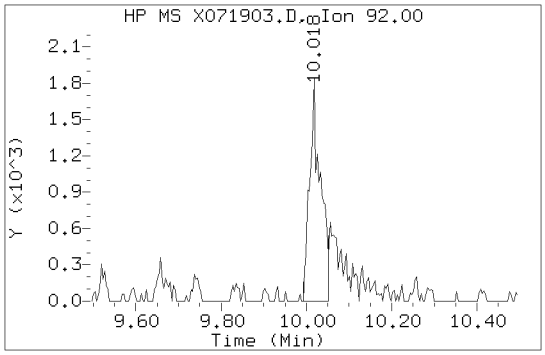
BEFORE

MASS 91
AREA 6295
HEIGHT 4785
25-Jul-2022 09:00
linh
pham



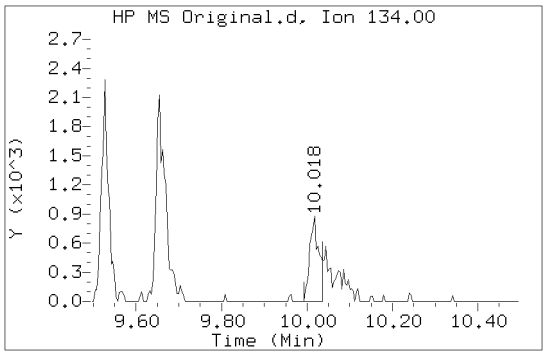
AFTER

MASS 92
AREA 3270
HEIGHT 1836
08-Sep-2022 12:20
linh
pham



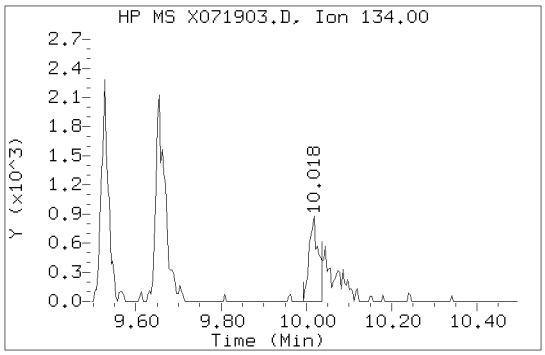
BEFORE

MASS 134
AREA 2791
HEIGHT 2284
25-Jul-2022 09:00
linh
pham



AFTER

MASS 134
AREA 1329
HEIGHT 881
08-Sep-2022 12:20
linh
pham

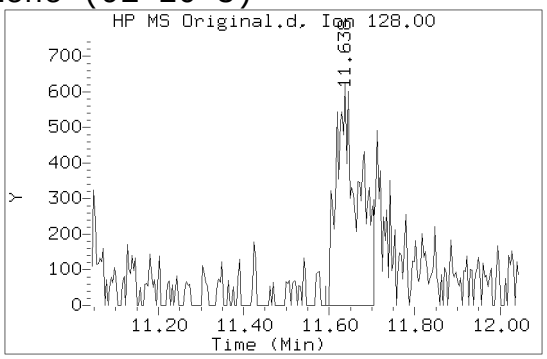


Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071903.D
Inj Date : 19-JUL-2022 12:08
InstruID : voa6.i
LabSampID : VSTD000.5

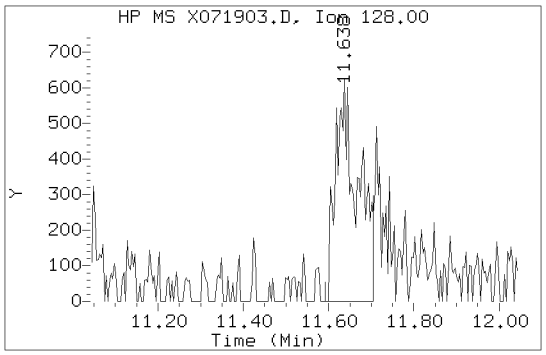
Naphthalene (91-20-3)

Reason Code:

BEFORE
MASS
105
AREA
13047
HEIGHT
10290
25-Jul-2022
09:00
linh
pham



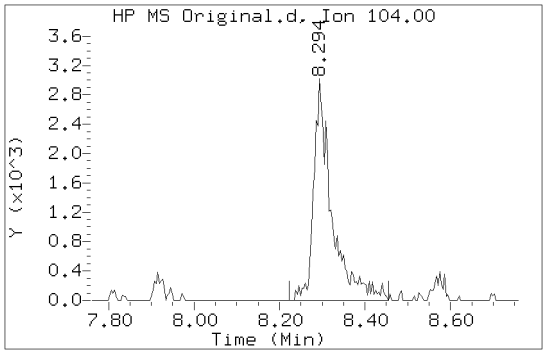
AFTER
MASS
128
AREA
2252
HEIGHT
623
08-Sep-2022
12:20
linh
pham



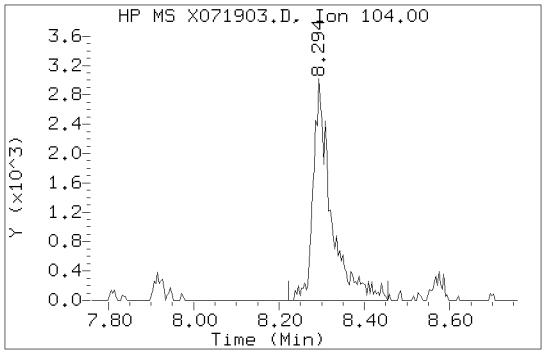
Styrene (100-42-5)

Reason Code:

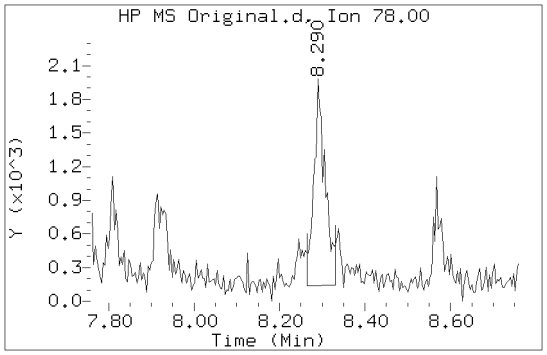
BEFORE
MASS
225
AREA
2233
HEIGHT
1848
25-Jul-2022
09:00
linh
pham



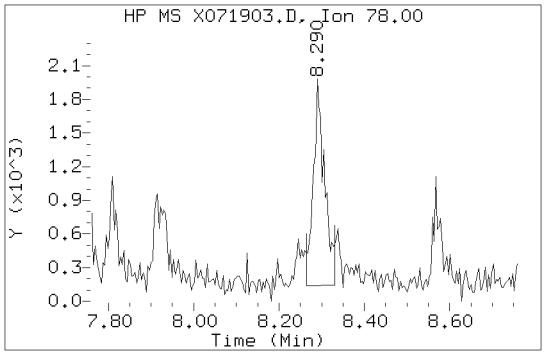
AFTER
MASS
104
AREA
8853
HEIGHT
3020
08-Sep-2022
12:20
linh
pham



BEFORE
MASS
223
AREA
1401
HEIGHT
1354
25-Jul-2022
09:00
linh
pham



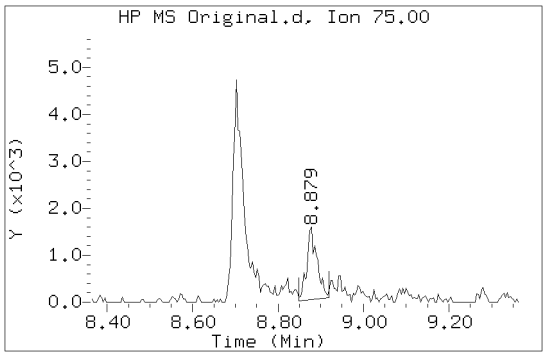
AFTER
MASS
78
AREA
3427
HEIGHT
1842
08-Sep-2022
12:20
linh
pham



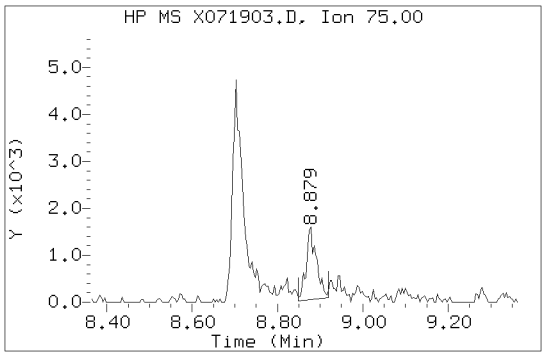
1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE
MASS
180
AREA
1275
HEIGHT
555
25-Jul-2022
09:00
linh
pham



AFTER
MASS
75
AREA
2596
HEIGHT
1548
08-Sep-2022
12:20
linh
pham



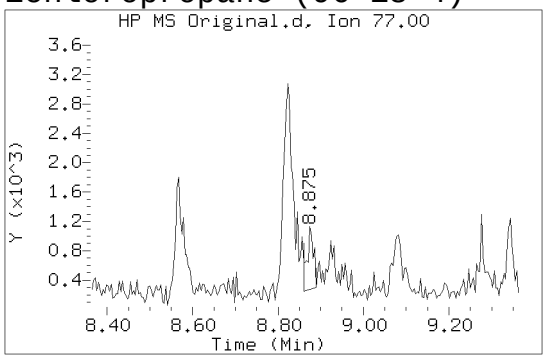
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071903.D
Inj Date : 19-JUL-2022 12:08
InstruID : voa6.i
LabSampID : VSTD000.5

1,2,3-Trichloropropane (96-18-4)

Reason Code:

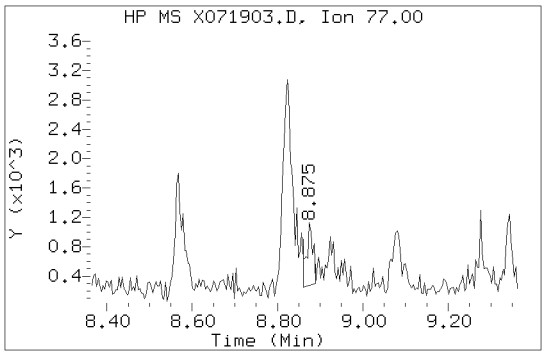
BEFORE

MASS
182
AREA
0
HEIGHT
0
25-Jul-2022
09:00
linh
pham



AFTER

MASS
77
AREA
920
HEIGHT
859
08-Sep-2022
12:20
linh
pham

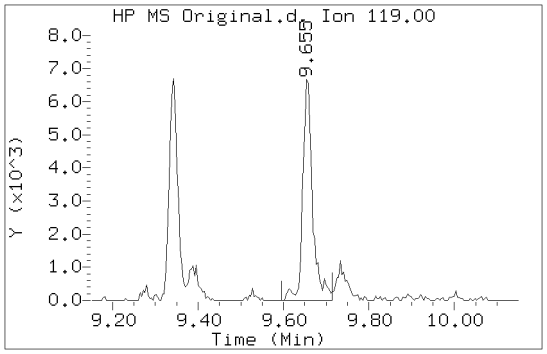


p-Isopropyltoluene (99-87-6)

Reason Code:

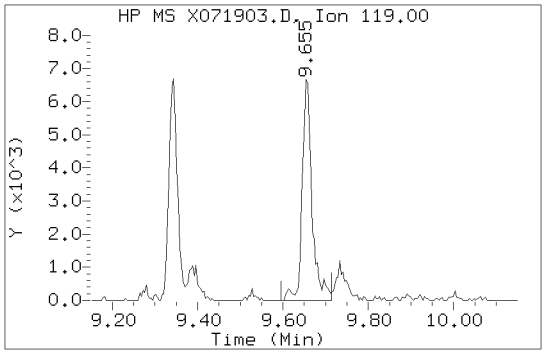
BEFORE

MASS
106
AREA
16597
HEIGHT
9320
25-Jul-2022
09:00
linh
pham



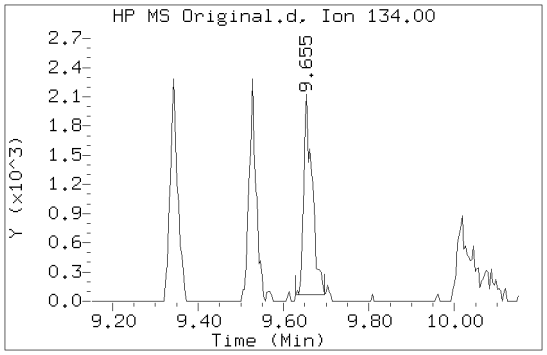
AFTER

MASS
119
AREA
11018
HEIGHT
6684
08-Sep-2022
12:20
linh
pham



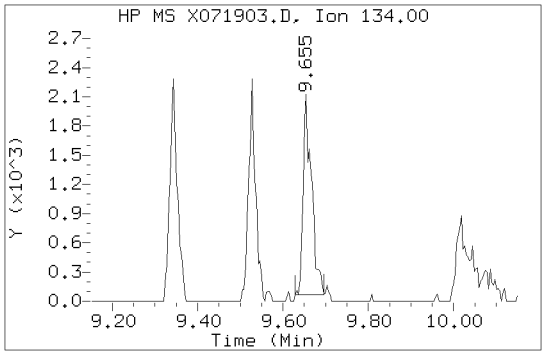
BEFORE

MASS
91
AREA
0
HEIGHT
0
25-Jul-2022
09:00
linh
pham



AFTER

MASS
134
AREA
2906
HEIGHT
2066
08-Sep-2022
12:20
linh
pham

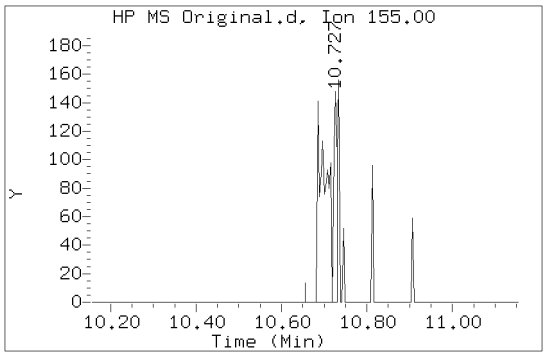


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

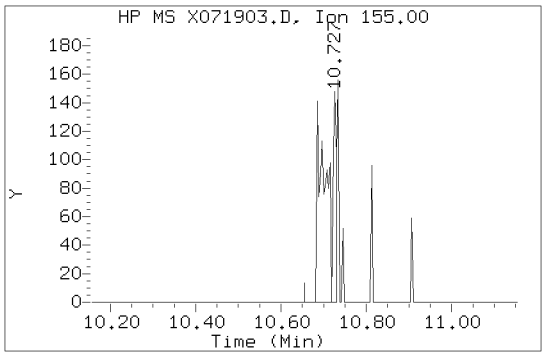
BEFORE

MASS
73
AREA
9993
HEIGHT
5235
25-Jul-2022
09:00
linh
pham



AFTER

MASS
155
AREA
270
HEIGHT
148
08-Sep-2022
12:20
linh
pham



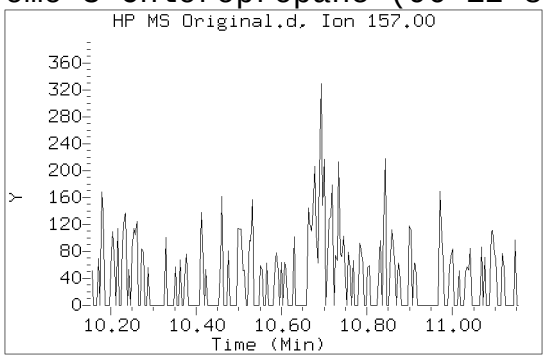
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071903.D
Inj Date : 19-JUL-2022 12:08
InstruID : voa6.i
LabSampID : VSTD000.5

1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

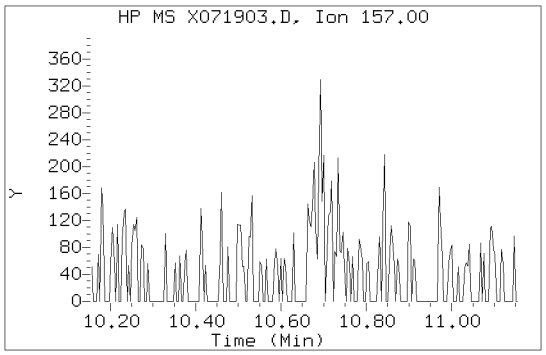
BEFORE

MASS
57
AREA
7497
HEIGHT
3757
25-Jul-2022
09:00
linh
pham



AFTER

MASS
157
AREA
0
HEIGHT
0
08-Sep-2022
12:20
linh
pham

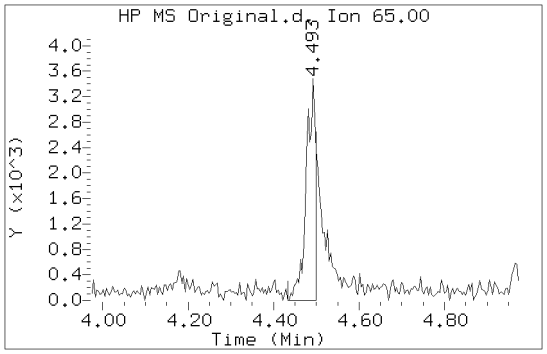


1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

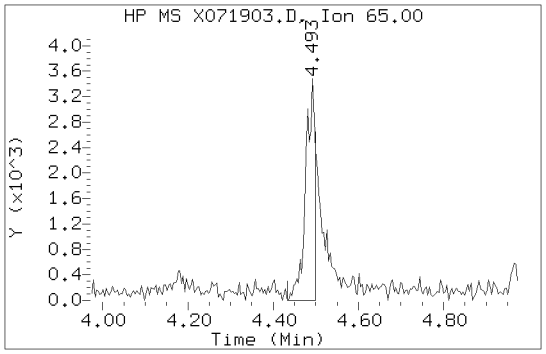
BEFORE

MASS
113
AREA
4991
HEIGHT
2969
25-Jul-2022
09:00
linh
pham



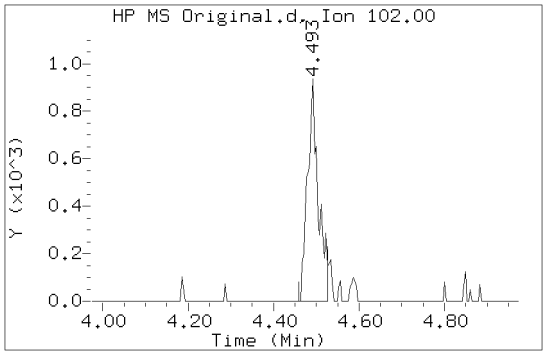
AFTER

MASS
65
AREA
5362
HEIGHT
3482
08-Sep-2022
12:20
linh
pham



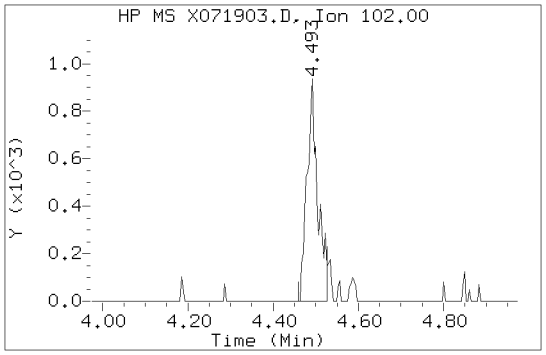
BEFORE

MASS
111
AREA
6845
HEIGHT
2797
25-Jul-2022
09:00
linh
pham



AFTER

MASS
102
AREA
1658
HEIGHT
936
08-Sep-2022
12:20
linh
pham

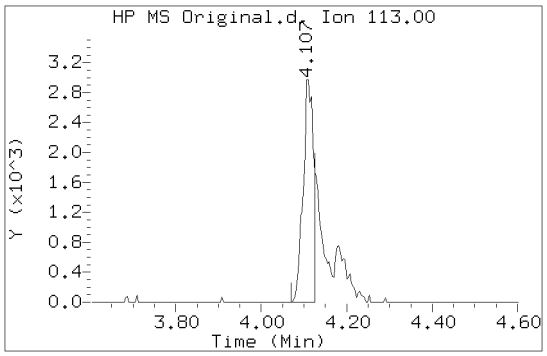


Dibromofluoromethane (1868-53-7)

Reason Code:

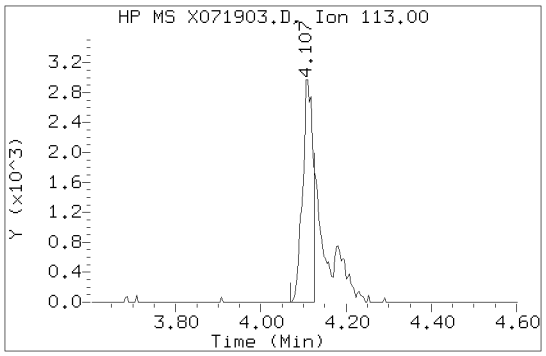
BEFORE

MASS
98
AREA
14148
HEIGHT
13268
25-Jul-2022
09:00
linh
pham



AFTER

MASS
113
AREA
4991
HEIGHT
2969
08-Sep-2022
12:20
linh
pham



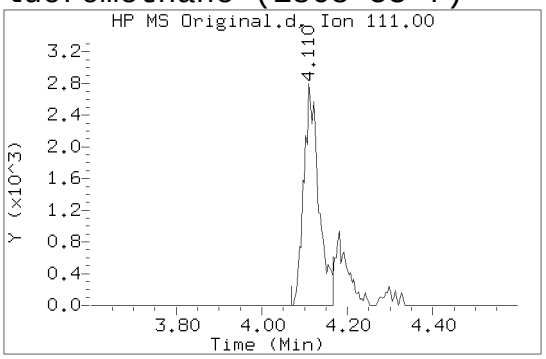
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071903.D
Inj Date : 19-JUL-2022 12:08
InstruID : voa6.i
LabSampID : VSTD000.5

Dibromofluoromethane (1868-53-7)

Reason Code:

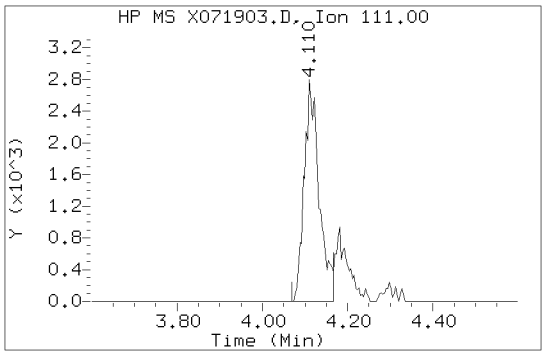
BEFORE

MASS
99
AREA
2541
HEIGHT
1372
25-Jul-2022
09:00
linh
pham



AFTER

MASS
111
AREA
6845
HEIGHT
2797
08-Sep-2022
12:20
linh
pham

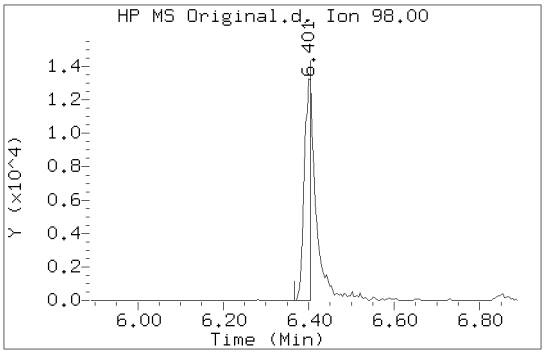


Toluene-d8 (2037-26-5)

Reason Code:

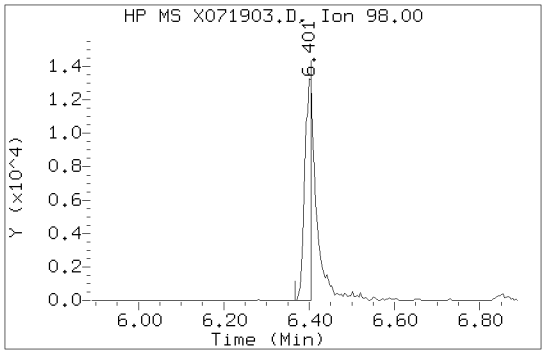
BEFORE

MASS
65
AREA
5362
HEIGHT
3482
25-Jul-2022
09:00
linh
pham



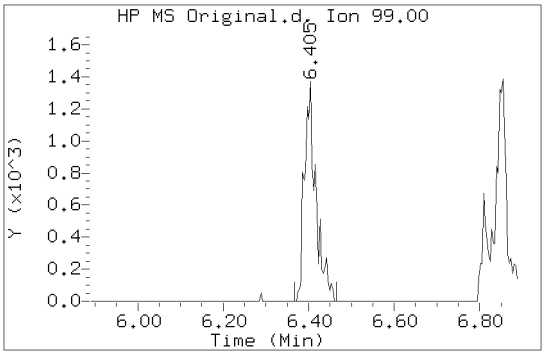
AFTER

MASS
98
AREA
14148
HEIGHT
13268
08-Sep-2022
12:20
linh
pham



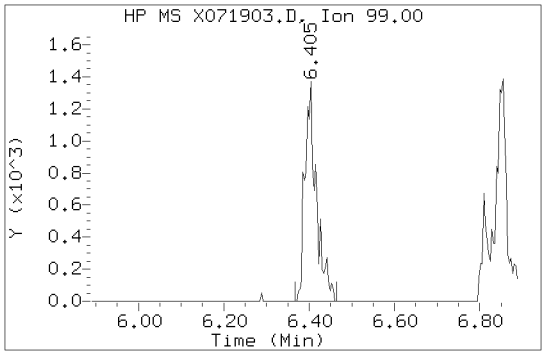
BEFORE

MASS
102
AREA
1658
HEIGHT
936
25-Jul-2022
09:00
linh
pham



AFTER

MASS
99
AREA
2541
HEIGHT
1372
08-Sep-2022
12:20
linh
pham

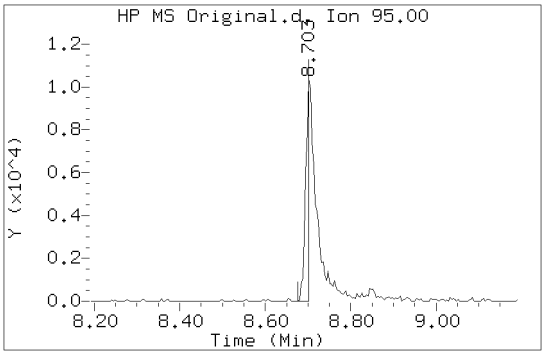


4-Bromofluorobenzene (460-00-4)

Reason Code:

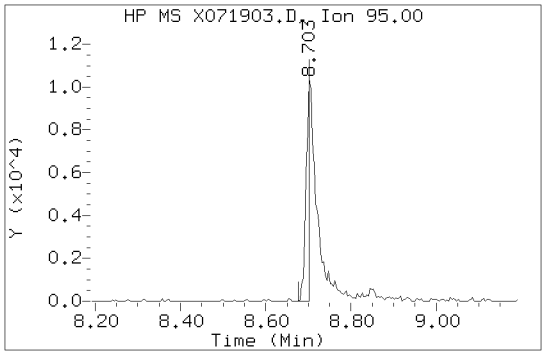
BEFORE

MASS
95
AREA
6586
HEIGHT
10380
25-Jul-2022
09:00
linh
pham



AFTER

MASS
95
AREA
6586
HEIGHT
10380
08-Sep-2022
12:20
linh
pham



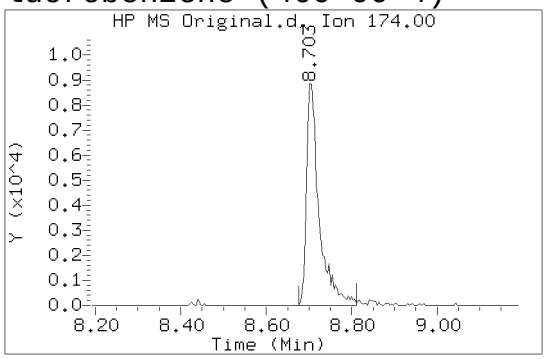
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071903.D
Inj Date : 19-JUL-2022 12:08
InstruID : voa6.i
LabSampID : VSTD000.5

4-Bromofluorobenzene (460-00-4)

Reason Code:

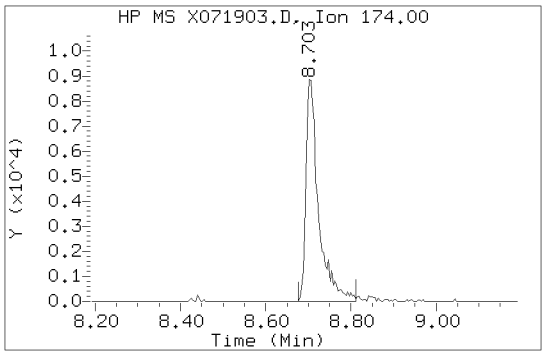
BEFORE

MASS
174
AREA
18280
HEIGHT
8855
25-Jul-2022
09:00
linh
pham



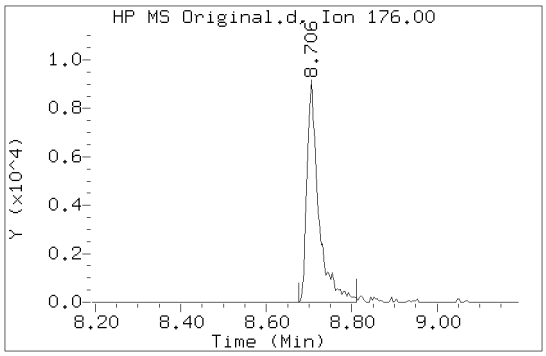
AFTER

MASS
174
AREA
18280
HEIGHT
8855
08-Sep-2022
12:20
linh
pham



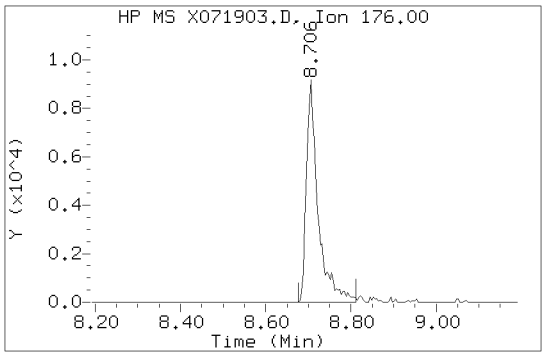
BEFORE

MASS
176
AREA
17656
HEIGHT
9174
25-Jul-2022
09:00
linh
pham



AFTER

MASS
176
AREA
17656
HEIGHT
9174
08-Sep-2022
12:20
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071904.D Page 1
Report Date: 08-Sep-2022 12:20

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071904.D
Lab Smp Id: VSTD001 Client Smp ID: VSTD001
Inj Date : 19-JUL-2022 12:29
Operator : PC Inst ID: voa6.i
Smp Info : VSTD001;VSTD001;1;3;
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\8260W.m
Meth Date : 08-Sep-2022 12:20 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 12:08 Cal File: X071903.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

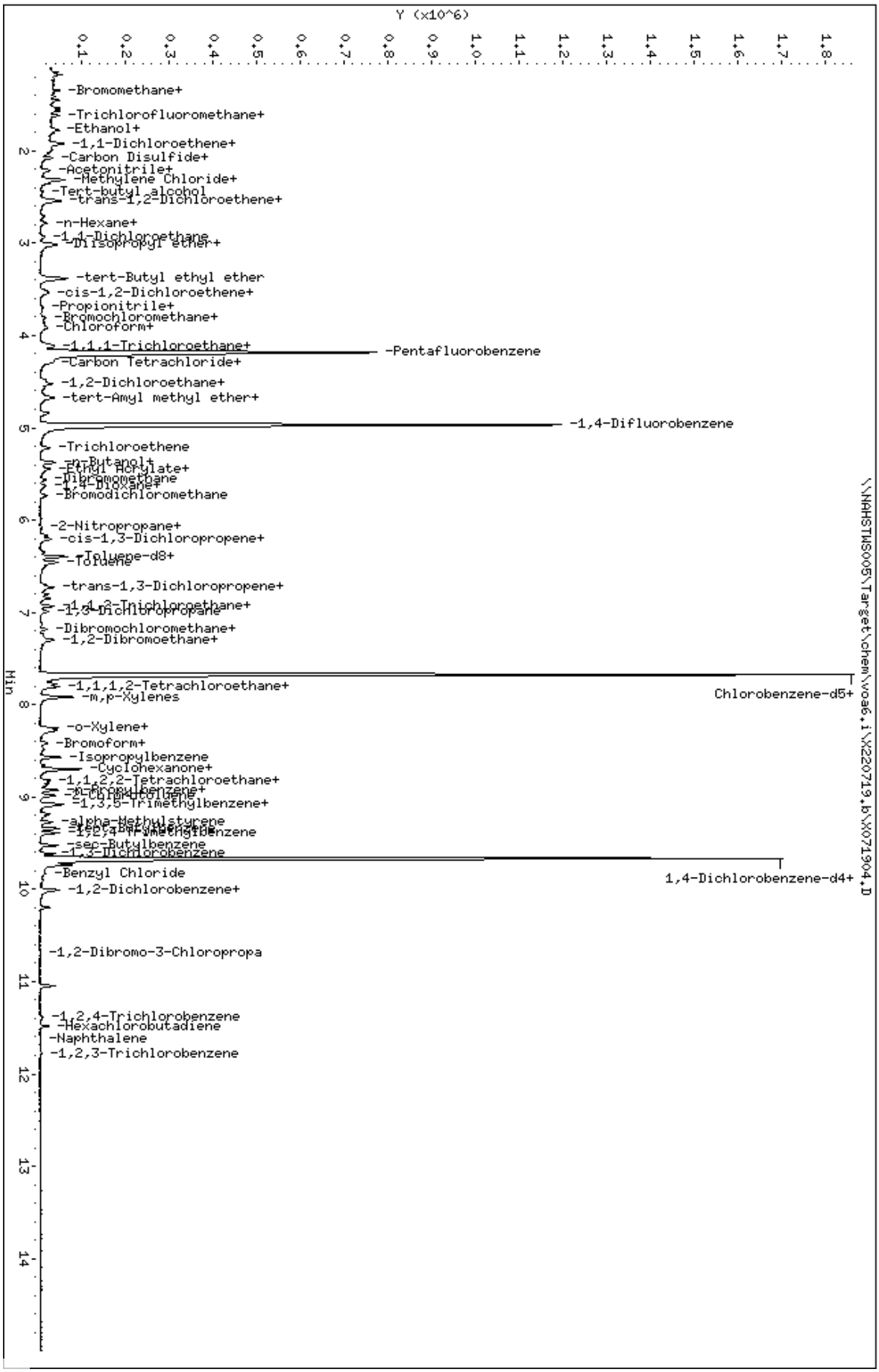
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.185	4.185	(1.000)	702091	50.0000	
* 36 1,4-Difluorobenzene	114	4.968	4.968	(1.000)	1046256	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	952128	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.665	9.665	(1.000)	441386	50.0000	
$ 30 Dibromofluoromethane	113	4.110	4.110	(0.982)	9308	1.00000	0.69(aM)
$ 35 1,2-Dichloroethane-d4	65	4.489	4.489	(1.073)	8675	1.00000	0.87(aM)
$ 48 Toluene-d8	98	6.397	6.397	(0.834)	23913	1.00000	1.00(aM)
$ 69 4-Bromofluorobenzene	95	8.698	8.698	(1.134)	11894	1.00000	0.59(aM)
60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	6847	1.00000	1.02(a)
31 1,1,1-Trichloroethane	97	4.087	4.087	(0.977)	9877	1.00000	0.99(a)
68 1,1,2,2-Tetrachloroethane	83	8.848	8.848	(0.915)	6777	1.00000	1.09(a)
53 1,1,2-Trichloroethane	83	6.846	6.846	(0.893)	4829	1.00000	0.98(a)
22 1,1-Dichloroethane	63	2.933	2.933	(0.701)	11983	1.00000	1.10(a)
11 1,1-Dichloroethene	96	1.921	1.921	(0.459)	6600	1.00000	1.12(a)
32 1,1-Dichloropropene	75	4.290	4.290	(0.863)	8523	1.00000	1.00(aM)
93 1,2,3-Trichlorobenzene	180	11.776	11.776	(1.218)	2063	1.00000	0.89(a)
71 1,2,3-Trichloropropane	75	8.874	8.874	(0.918)	5208	1.00000	1.08(aM)
90 1,2,4-Trichlorobenzene	180	11.382	11.382	(1.178)	3403	1.00000	0.84(aM)
79 1,2,4-Trimethylbenzene	105	9.388	9.388	(0.971)	21695	1.00000	1.02(a)
89 1,2-Dibromo-3-Chloropropane	155	10.689	10.689	(1.106)	348	1.00000	1.16(aM)

57	1,2-Dibromoethane	107	7.274	7.274 (0.948)	5896	1.00000	0.94(a)
88	1,2-Dichlorobenzene	146	10.007	10.007 (1.035)	11239	1.00000	1.01(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
33	1,2-Dichloroethane	62	4.575	4.575	(0.921)	9313	1.00000	1.01(a)
42	1,2-Dichloropropane	63	5.444	5.444	(1.096)	6012	1.00000	0.93(aM)
75	1,3,5-Trimethylbenzene	105	9.073	9.073	(0.939)	21739	1.00000	1.01(a)
83	1,3-Dichlorobenzene	146	9.613	9.613	(0.995)	12197	1.00000	0.99(a)
54	1,3-Dichloropropane	76	6.993	6.993	(0.912)	10197	1.00000	1.02(a)
84	1,4-Dichlorobenzene	146	9.688	9.688	(1.002)	13164	1.00000	1.01(a)
26	2,2-Dichloropropane	77	3.514	3.514	(0.840)	10957	1.00000	0.89(aM)
24	2-Butanone	43	3.679	3.679	(0.879)	3253	2.00000	1.84(aM)
76	2-Chlorotoluene	91	8.987	8.987	(0.930)	20980	1.00000	1.10(a)
52	2-Hexanone	43	7.116	7.116	(0.928)	5434	2.00000	1.81(aM)
77	4-Chlorotoluene	91	9.088	9.088	(0.940)	22202	1.00000	1.05(a)
82	p-Isopropyltoluene	119	9.654	9.654	(0.999)	22742	1.00000	1.05(a)
45	4-Methyl-2-Pentanone	43	6.340	6.340	(0.827)	9354	2.00000	2.01(aM)
10	Acetone	43	1.984	1.984	(0.474)	3509	2.00000	(aM)
37	Benzene	78	4.519	4.519	(0.909)	26549	1.00000	1.07(a)
74	Bromobenzene	156	8.818	8.818	(0.912)	7556	1.00000	1.00(a)
29	Bromochloromethane	128	3.810	3.810	(0.910)	4315	1.00000	1.09(a)
39	Bromodichloromethane	83	5.737	5.737	(1.155)	8775	1.00000	0.99(a)
66	Bromoform	173	8.417	8.417	(1.097)	3730	1.00000	2.02(Ta)
6	Bromomethane	94	1.347	1.347	(0.322)	6763	1.00000	0.07(aM)
19	Carbon Disulfide	76	2.074	2.074	(0.496)	33751	2.00000	2.17(a)
34	Carbon Tetrachloride	117	4.271	4.271	(0.860)	9827	1.00000	1.08(aH)
59	Chlorobenzene	112	7.697	7.697	(1.003)	18297	1.00000	1.01(a)
7	Chloroethane	64	1.407	1.407	(0.336)	4804	1.00000	1.06(aM)
28	Chloroform	83	3.919	3.919	(0.936)	12942	1.00000	1.09(a)
3	Chloromethane	50	1.085	1.085	(0.259)	7297	1.00000	1.17(aM)
27	cis-1,2-Dichloroethene	96	3.540	3.540	(0.846)	7176	1.00000	1.02(a)
46	cis-1,3-Dichloropropene	75	6.168	6.168	(1.241)	10546	1.00000	0.97(a)
55	Dibromochloromethane	129	7.188	7.188	(0.937)	6898	1.00000	0.97(a)
44	Dibromomethane	93	5.564	5.564	(1.120)	4501	1.00000	1.04(a)
2	Dichlorodifluoromethane	85	0.976	0.976	(0.233)	7427	1.00000	0.94(a)
61	Ethylbenzene	106	7.810	7.810	(1.018)	9298	1.00000	1.01(a)
91	Hexachlorobutadiene	225	11.487	11.487	(1.188)	3610	1.00000	0.97(a)
67	Isopropylbenzene	105	8.567	8.567	(1.117)	28077	1.00000	1.02(a)
62	m,p-Xylenes	106	7.915	7.915	(1.032)	22802	2.00000	2.01(a)
17	Methylene Chloride	84	2.311	2.311	(0.552)	7303	1.00000	0.27(aM)
87	n-Butylbenzene	91	10.007	10.007	(1.035)	16618	1.00000	0.92(aM)
73	n-Propylbenzene	91	8.923	8.923	(0.923)	29049	1.00000	0.99(a)
92	Naphthalene	128	11.622	11.622	(1.202)	4273	1.00000	0.95(aM)
63	o-Xylene	106	8.248	8.248	(1.075)	11062	1.00000	1.00(a)
81	sec-Butylbenzene	105	9.523	9.523	(0.985)	25764	1.00000	1.03(a)
64	Styrene	104	8.282	8.282	(1.080)	17705	1.00000	0.97(aM)
78	tert-Butylbenzene	119	9.343	9.343	(0.967)	19169	1.00000	1.05(a)
56	Tetrachloroethene	164	6.936	6.936	(0.904)	6649	1.00000	1.07(a)
50	Toluene	91	6.457	6.457	(0.842)	28159	1.00000	1.05(a)
20	trans-1,2-Dichloroethene	96	2.543	2.543	(0.608)	6346	1.00000	1.02(a)
51	trans-1,3-Dichloropropene	75	6.697	6.697	(1.348)	7300	1.00000	0.81(a)
38	Trichloroethene	130	5.216	5.216	(1.050)	7477	1.00000	1.01(a)
8	Trichlorofluoromethane	101	1.568	1.568	(0.375)	12350	1.00000	1.11(a)
5	Vinyl Chloride	62	1.149	1.149	(0.275)	8192	1.00000	1.11(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



Data File: \\NAHSTMS005\Target\chem\voa6.i\X220719.b\X071904.D
Date : 19-JUL-2022 12:29
Client ID: VSTD001
Sample Info: VSTD001;VSTD001;1;3;
Purge Volume: 5.0
Column phase: DB624

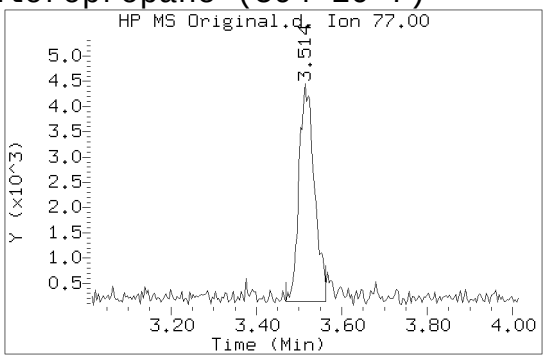
Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071904.D
Inj Date : 19-JUL-2022 12:29
InstruID : voa6.i
LabSampID : VSTD001

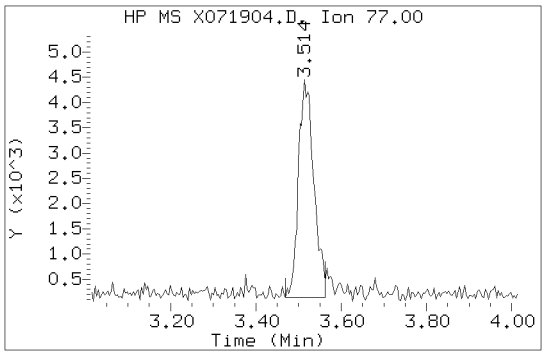
2,2-Dichloropropane (594-20-7)

Reason Code:

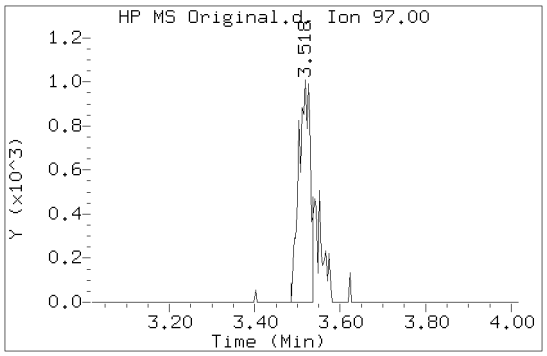
BEFORE
MASS
43
AREA
5434
HEIGHT
1935
25-Jul-2022
09:00
linh
pham



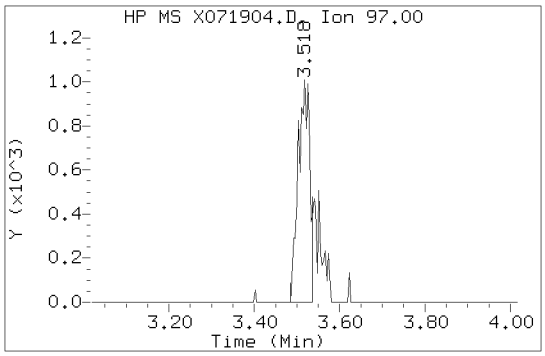
AFTER
MASS
77
AREA
10957
HEIGHT
4315
08-Sep-2022
12:20
linh
pham



BEFORE
MASS
58
AREA
2625
HEIGHT
1002
25-Jul-2022
09:00
linh
pham



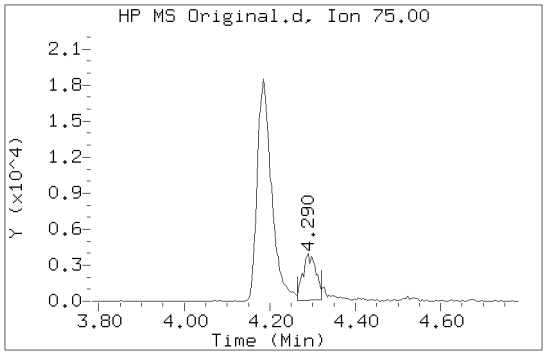
AFTER
MASS
97
AREA
1951
HEIGHT
1009
08-Sep-2022
12:20
linh
pham



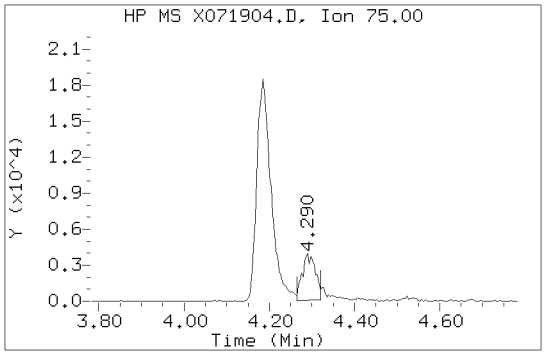
1,1-Dichloropropene (563-58-6)

Reason Code:

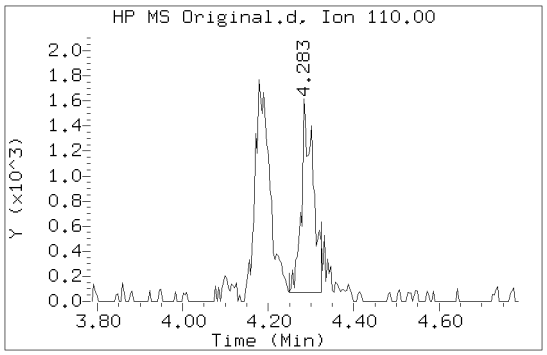
BEFORE
MASS
85
AREA
7427
HEIGHT
7372
25-Jul-2022
09:00
linh
pham



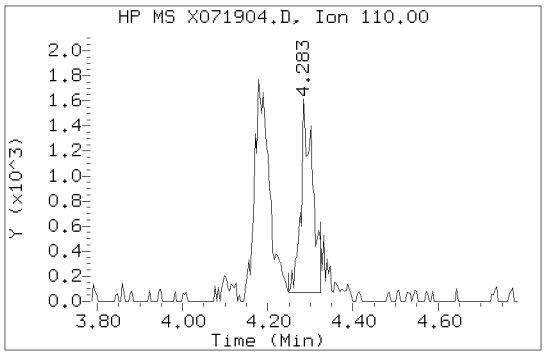
AFTER
MASS
75
AREA
8523
HEIGHT
3906
08-Sep-2022
12:20
linh
pham



BEFORE
MASS
87
AREA
2411
HEIGHT
2358
25-Jul-2022
09:00
linh
pham



AFTER
MASS
110
AREA
2985
HEIGHT
1543
08-Sep-2022
12:20
linh
pham



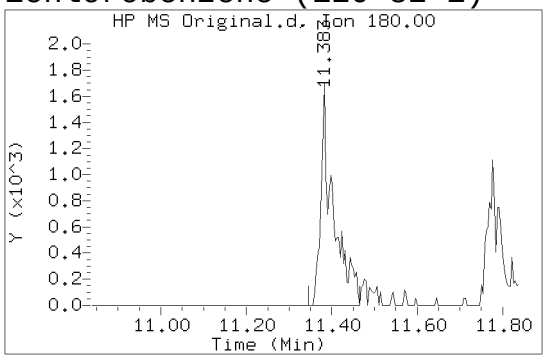
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071904.D
Inj Date : 19-JUL-2022 12:29
InstruID : voa6.i
LabSampID : VSTD001

1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

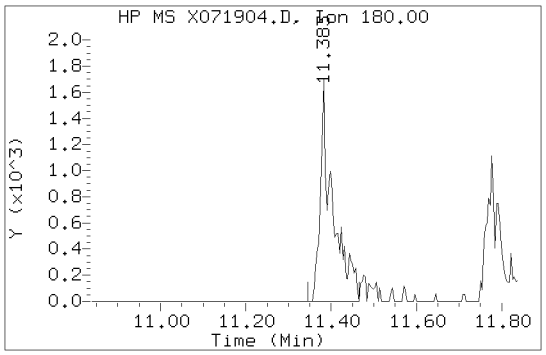
BEFORE

MASS
93
AREA
4501
HEIGHT
2456
25-Jul-2022
09:00
linh
pham



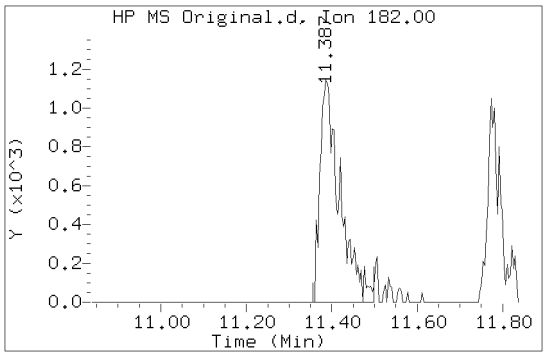
AFTER

MASS
180
AREA
3403
HEIGHT
1696
08-Sep-2022
12:20
linh
pham



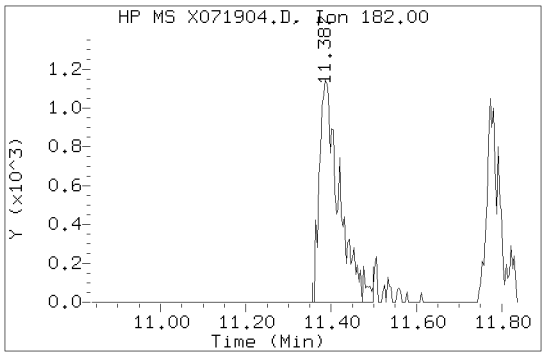
BEFORE

MASS
95
AREA
3651
HEIGHT
2025
25-Jul-2022
09:00
linh
pham



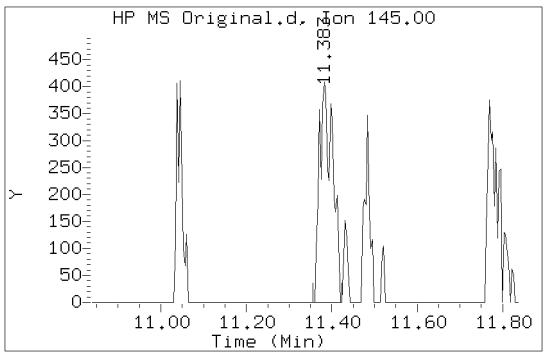
AFTER

MASS
182
AREA
3687
HEIGHT
1145
08-Sep-2022
12:20
linh
pham



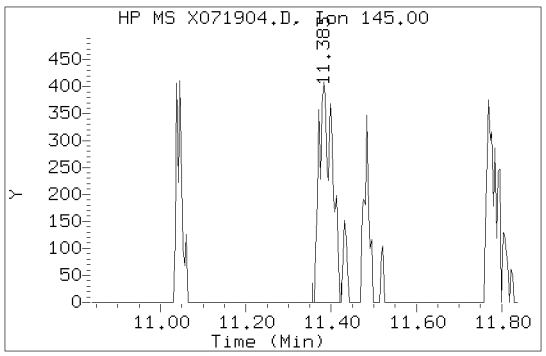
BEFORE

MASS
174
AREA
5101
HEIGHT
2883
25-Jul-2022
09:00
linh
pham



AFTER

MASS
145
AREA
871
HEIGHT
409
08-Sep-2022
12:20
linh
pham

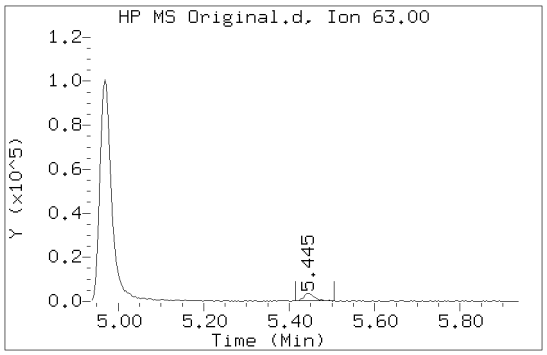


1,2-Dichloropropane (78-87-5)

Reason Code:

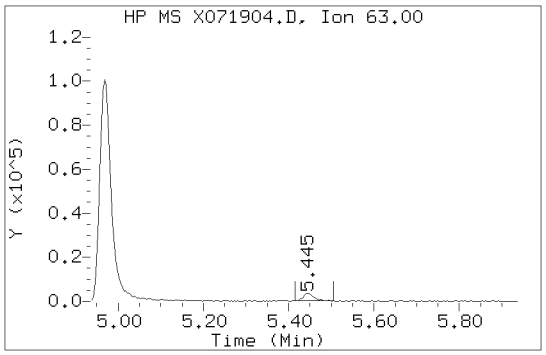
BEFORE

MASS
96
AREA
6346
HEIGHT
3278
25-Jul-2022
09:00
linh
pham



AFTER

MASS
63
AREA
6012
HEIGHT
3388
08-Sep-2022
12:20
linh
pham



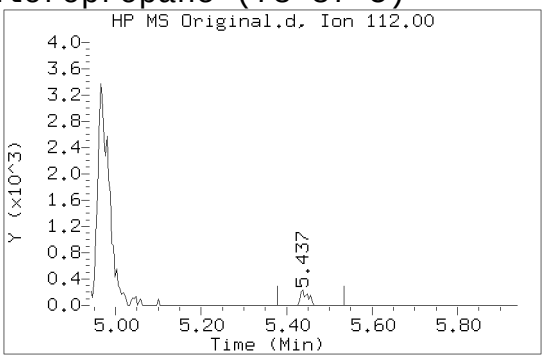
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071904.D
Inj Date : 19-JUL-2022 12:29
InstruID : voa6.i
LabSampID : VSTD001

1,2-Dichloropropane (78-87-5)

Reason Code:

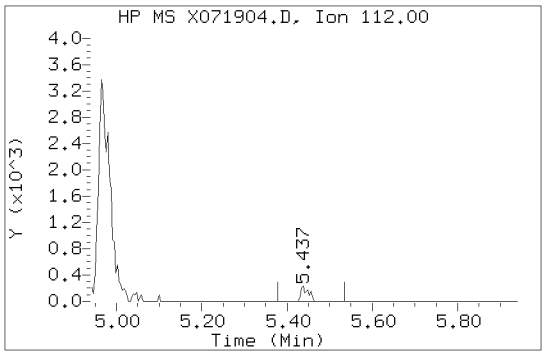
BEFORE

MASS
61
AREA
8277
HEIGHT
5006
25-Jul-2022
09:00
linh
pham



AFTER

MASS
112
AREA
289
HEIGHT
238
08-Sep-2022
12:20
linh
pham

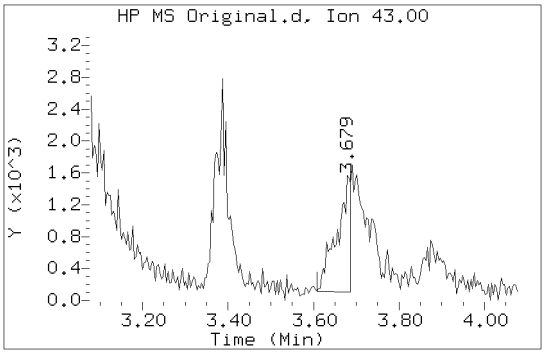


2-Butanone (78-93-3)

Reason Code:

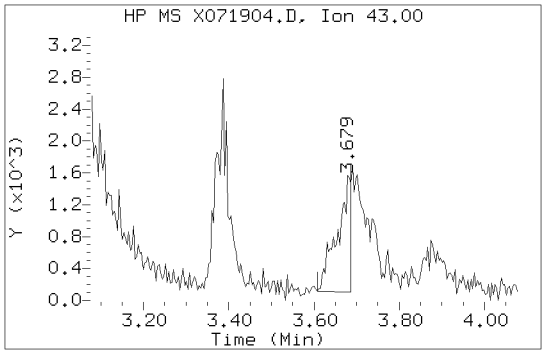
BEFORE

MASS
83
AREA
6777
HEIGHT
4379
25-Jul-2022
09:00
linh
pham



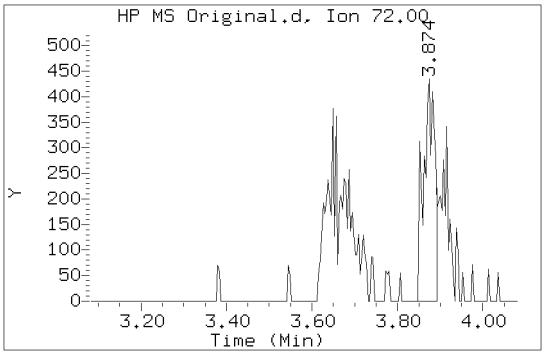
AFTER

MASS
43
AREA
3253
HEIGHT
1462
08-Sep-2022
12:20
linh
pham



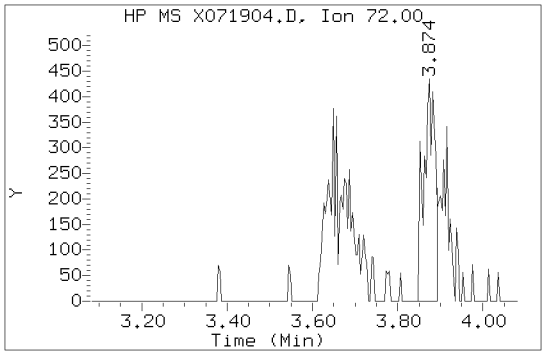
BEFORE

MASS
131
AREA
649
HEIGHT
716
25-Jul-2022
09:00
linh
pham



AFTER

MASS
72
AREA
797
HEIGHT
435
08-Sep-2022
12:20
linh
pham

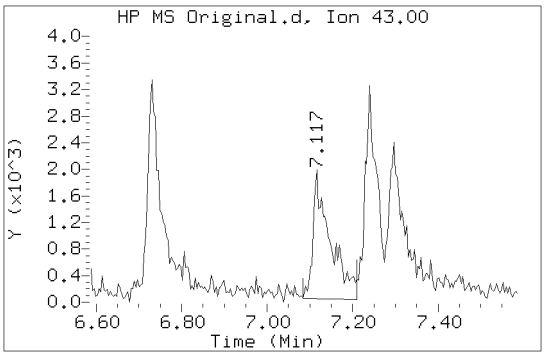


2-Hexanone (591-78-6)

Reason Code:

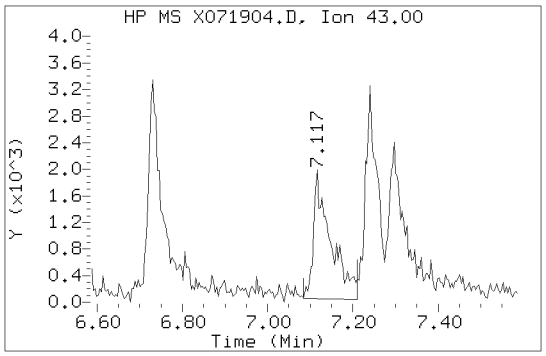
BEFORE

MASS
97
AREA
9877
HEIGHT
4344
25-Jul-2022
09:00
linh
pham



AFTER

MASS
43
AREA
5434
HEIGHT
1935
08-Sep-2022
12:20
linh
pham

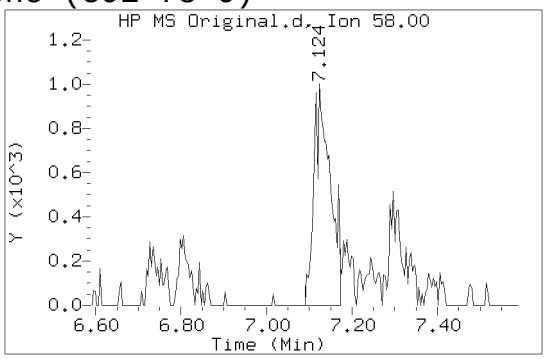


Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071904.D
Inj Date : 19-JUL-2022 12:29
InstruID : voa6.i
LabSampID : VSTD001

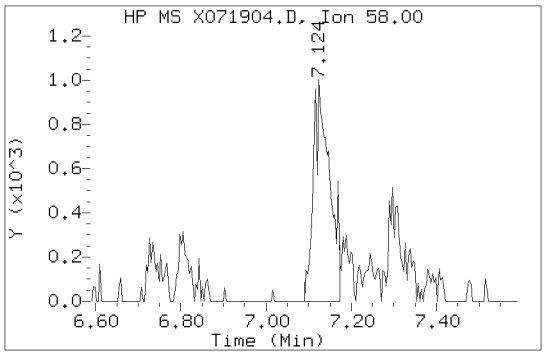
2-Hexanone (591-78-6)

Reason Code:

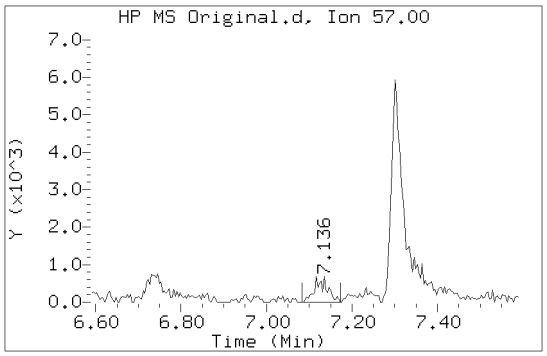
BEFORE
MASS
99
AREA
6792
HEIGHT
3028
25-Jul-2022
09:00
linh
pham



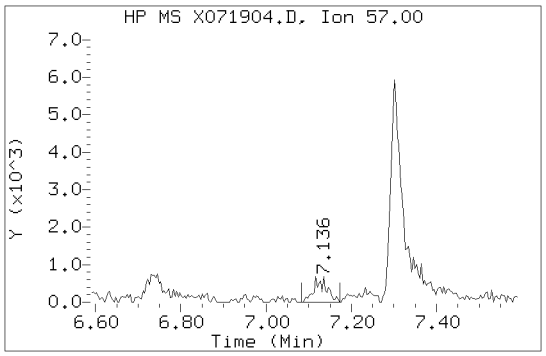
AFTER
MASS
58
AREA
2625
HEIGHT
1002
08-Sep-2022
12:20
linh
pham



BEFORE
MASS
61
AREA
4664
HEIGHT
2056
25-Jul-2022
09:00
linh
pham



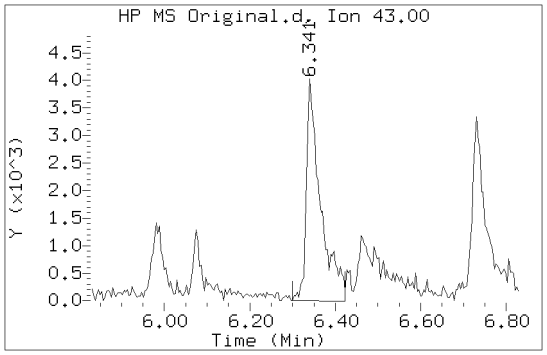
AFTER
MASS
57
AREA
1391
HEIGHT
685
08-Sep-2022
12:20
linh
pham



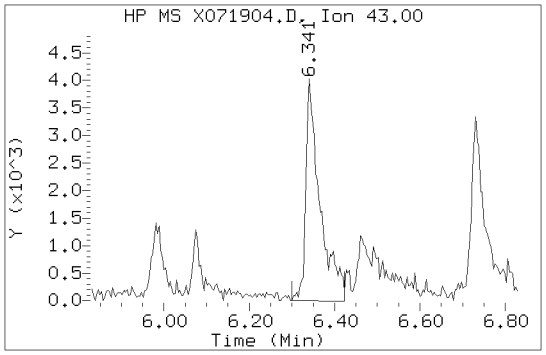
4-Methyl-2-Pentanone (108-10-1)

Reason Code:

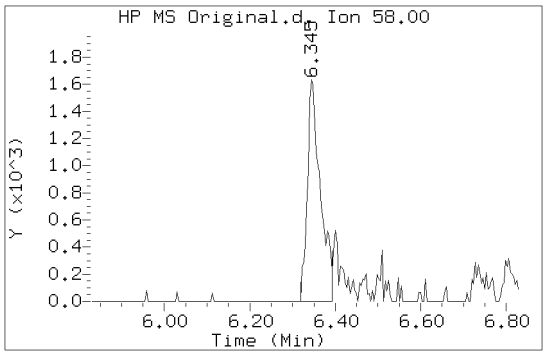
BEFORE
MASS
106
AREA
11062
HEIGHT
7011
25-Jul-2022
09:00
linh
pham



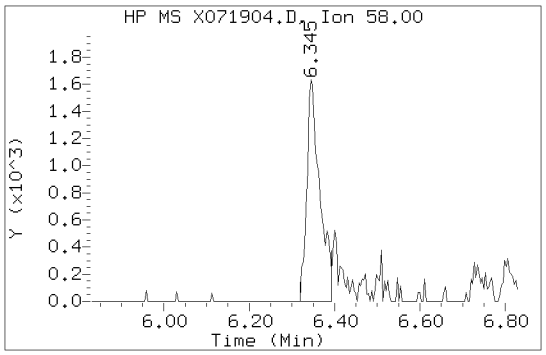
AFTER
MASS
43
AREA
9354
HEIGHT
4027
08-Sep-2022
12:20
linh
pham



BEFORE
MASS
91
AREA
23370
HEIGHT
14388
25-Jul-2022
09:00
linh
pham



AFTER
MASS
58
AREA
3489
HEIGHT
1634
08-Sep-2022
12:20
linh
pham

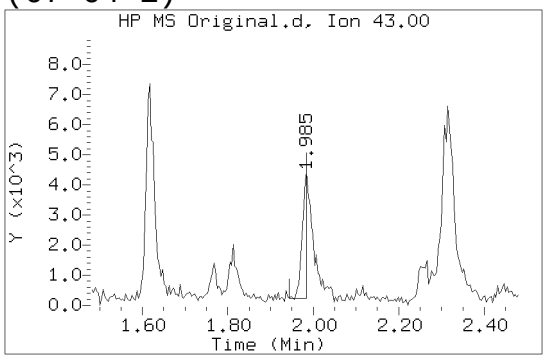


Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071904.D
Inj Date : 19-JUL-2022 12:29
InstruID : voa6.i
LabSampID : VSTD001

Acetone (67-64-1)

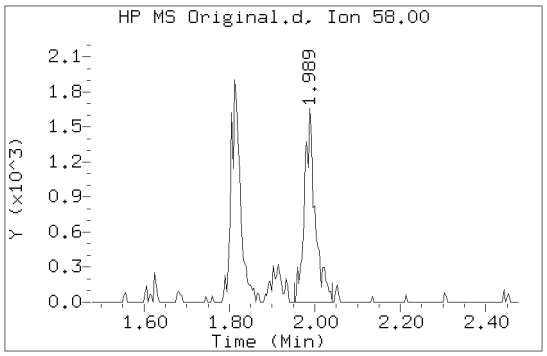
BEFORE

MASS
62
AREA
8192
HEIGHT
7615
25-Jul-2022
09:00
linh
pham



BEFORE

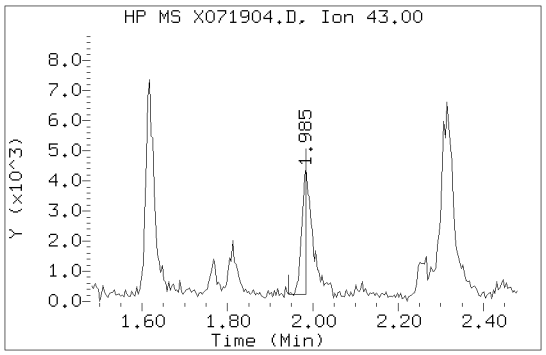
MASS
64
AREA
4092
HEIGHT
2828
25-Jul-2022
09:00
linh
pham



Reason Code:

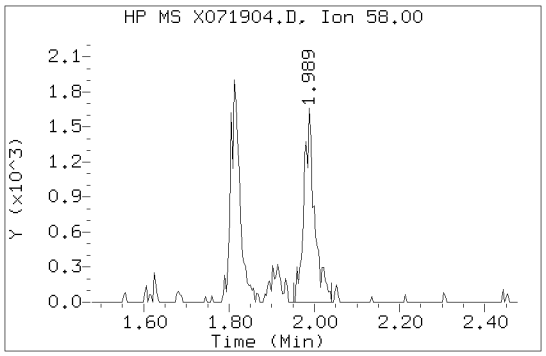
AFTER

MASS
43
AREA
3509
HEIGHT
4193
08-Sep-2022
12:20
linh
pham



AFTER

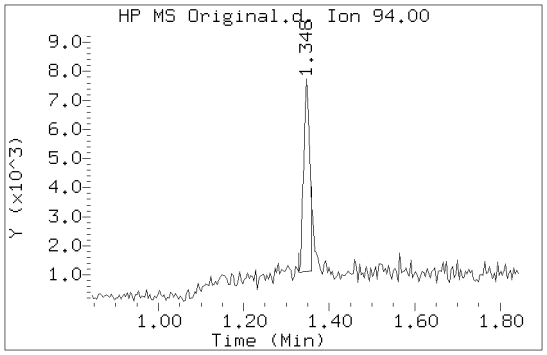
MASS
58
AREA
2928
HEIGHT
1664
08-Sep-2022
12:20
linh
pham



Bromomethane (74-83-9)

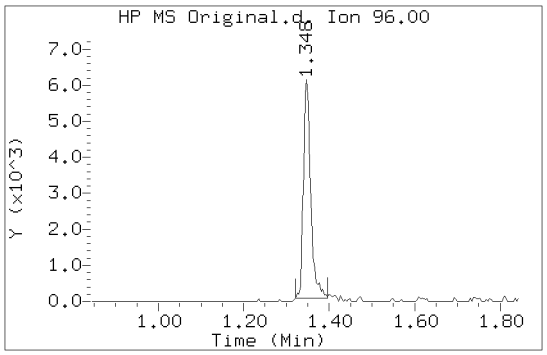
BEFORE

MASS
83
AREA
12942
HEIGHT
4946
25-Jul-2022
09:00
linh
pham



BEFORE

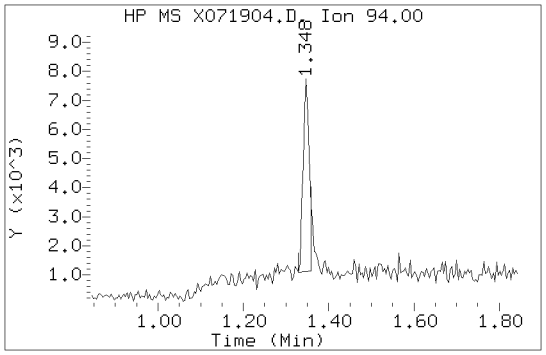
MASS
85
AREA
8582
HEIGHT
3366
25-Jul-2022
09:00
linh
pham



Reason Code:

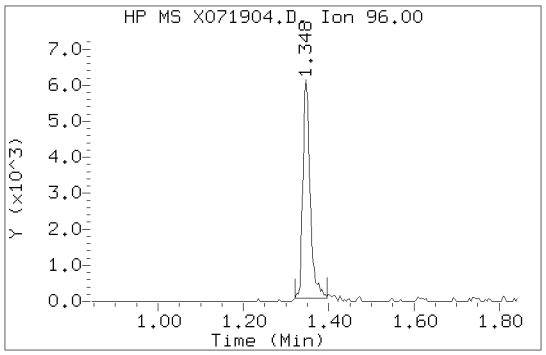
AFTER

MASS
94
AREA
6763
HEIGHT
6617
08-Sep-2022
12:20
linh
pham



AFTER

MASS
96
AREA
7441
HEIGHT
6061
08-Sep-2022
12:20
linh
pham

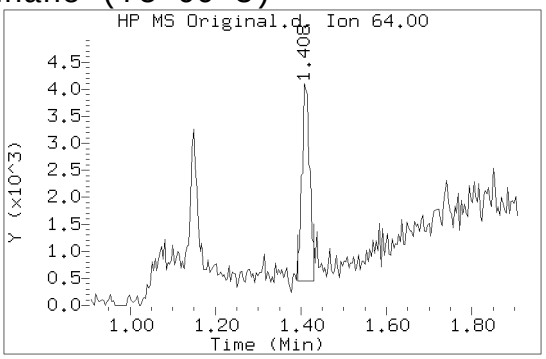


Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071904.D
Inj Date : 19-JUL-2022 12:29
InstruID : voa6.i
LabSampID : VSTD001

Chloroethane (75-00-3)

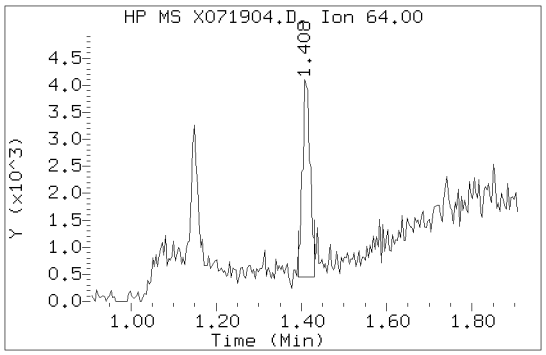
BEFORE

MASS
117
AREA
952128
HEIGHT
650496
25-Jul-2022
09:00
linh
pham



AFTER

MASS
64
AREA
4804
HEIGHT
3652
08-Sep-2022
12:20
linh
pham

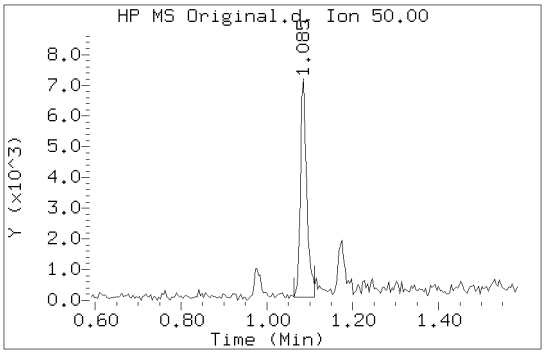


Reason Code:

Chloromethane (74-87-3)

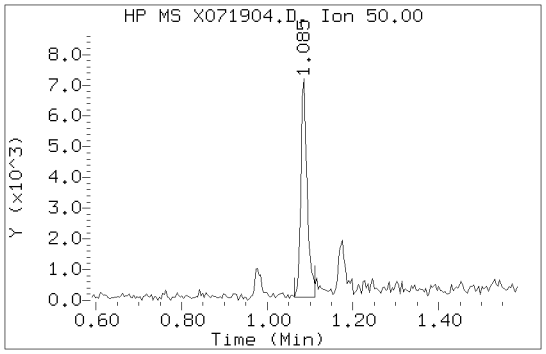
BEFORE

MASS
114
AREA
1046256
HEIGHT
538865
25-Jul-2022
09:00
linh
pham



AFTER

MASS
50
AREA
7297
HEIGHT
7110
08-Sep-2022
12:20
linh
pham

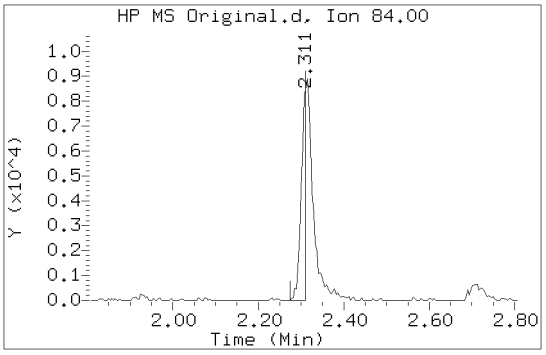


Reason Code:

Methylene Chloride (75-09-2)

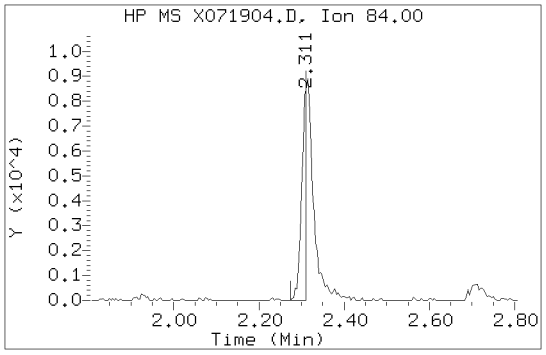
BEFORE

MASS
91
AREA
22202
HEIGHT
10908
25-Jul-2022
09:00
linh
pham



AFTER

MASS
84
AREA
7303
HEIGHT
8457
08-Sep-2022
12:20
linh
pham



Reason Code:

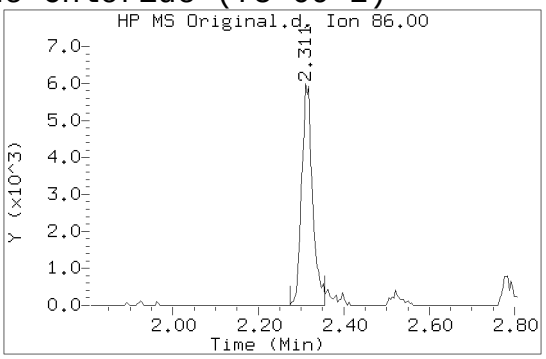
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071904.D
Inj Date : 19-JUL-2022 12:29
InstruID : voa6.i
LabSampID : VSTD001

Methylene Chloride (75-09-2)

Reason Code:

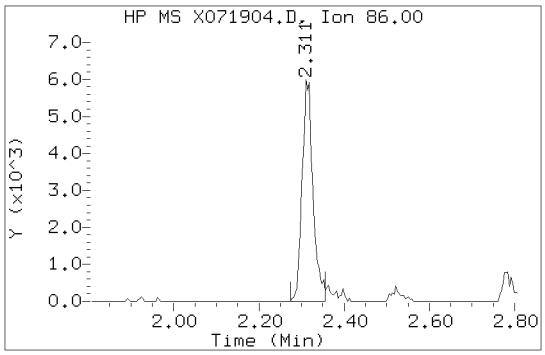
BEFORE

MASS
126
AREA
6411
HEIGHT
3382
25-Jul-2022
09:00
linh
pham



AFTER

MASS
86
AREA
10799
HEIGHT
5994
08-Sep-2022
12:20
linh
pham

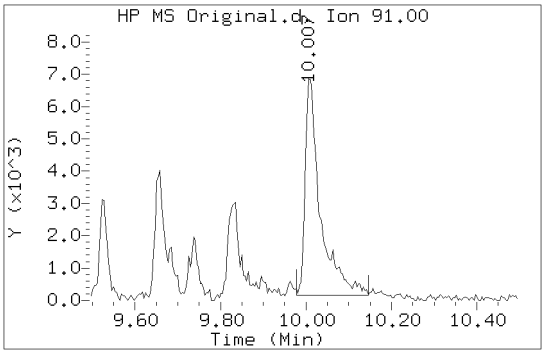


n-Butylbenzene (104-51-8)

Reason Code:

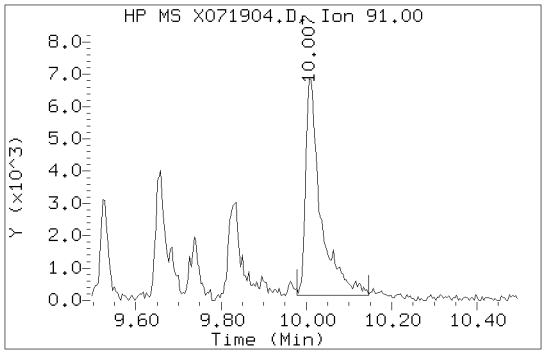
BEFORE

MASS
119
AREA
19169
HEIGHT
13613
25-Jul-2022
09:00
linh
pham



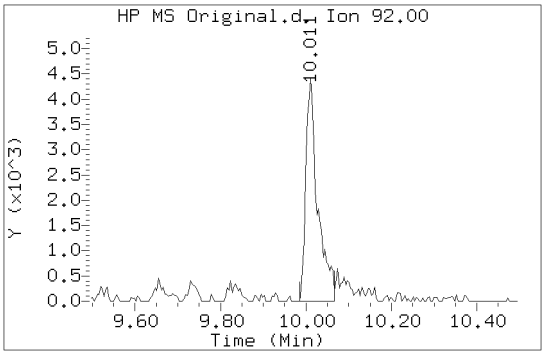
AFTER

MASS
91
AREA
16618
HEIGHT
6707
08-Sep-2022
12:20
linh
pham



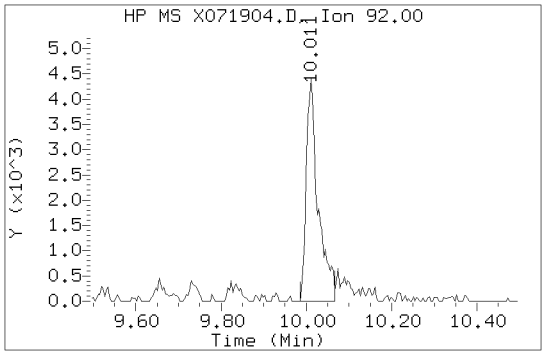
BEFORE

MASS
91
AREA
13199
HEIGHT
9373
25-Jul-2022
09:00
linh
pham



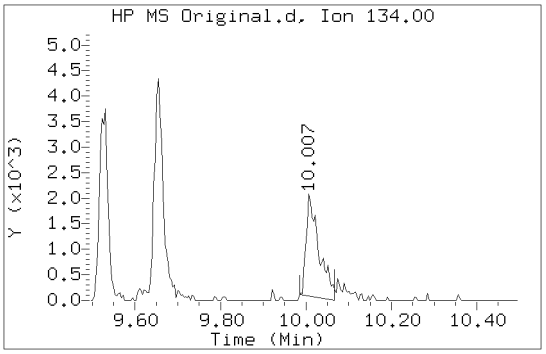
AFTER

MASS
92
AREA
8511
HEIGHT
4402
08-Sep-2022
12:20
linh
pham



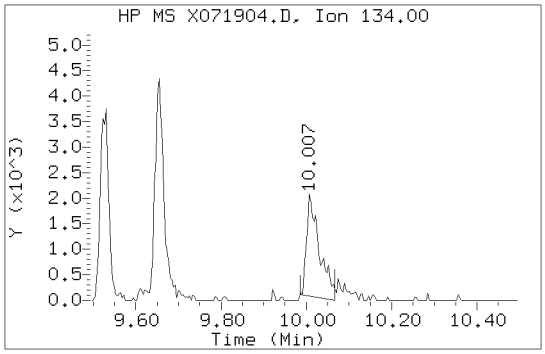
BEFORE

MASS
134
AREA
4688
HEIGHT
3532
25-Jul-2022
09:00
linh
pham



AFTER

MASS
134
AREA
4171
HEIGHT
1996
08-Sep-2022
12:20
linh
pham

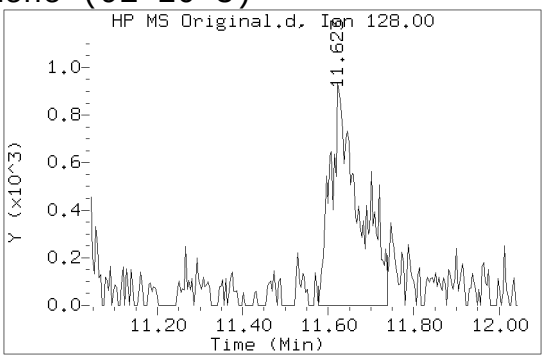


Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071904.D
Inj Date : 19-JUL-2022 12:29
InstruID : voa6.i
LabSampID : VSTD001

Naphthalene (91-20-3)

BEFORE

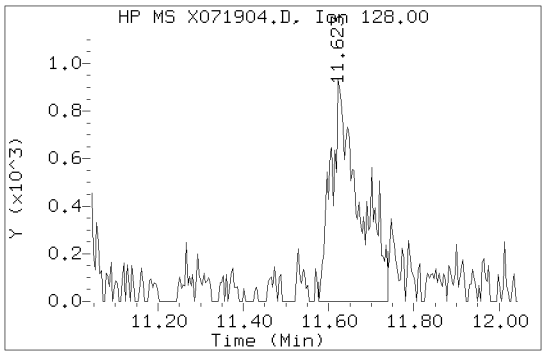
MASS
105
AREA
25764
HEIGHT
19832
25-Jul-2022
09:00
linh
pham



AFTER

MASS
128
AREA
4273
HEIGHT
932
08-Sep-2022
12:20
linh
pham

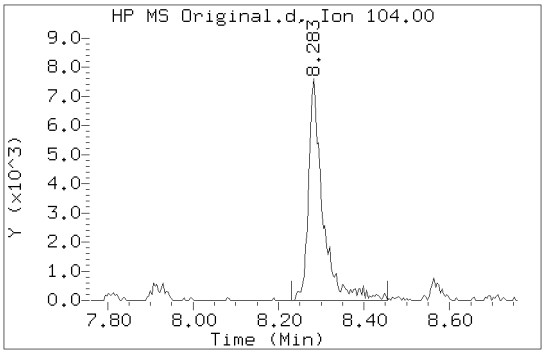
Reason Code:



Styrene (100-42-5)

BEFORE

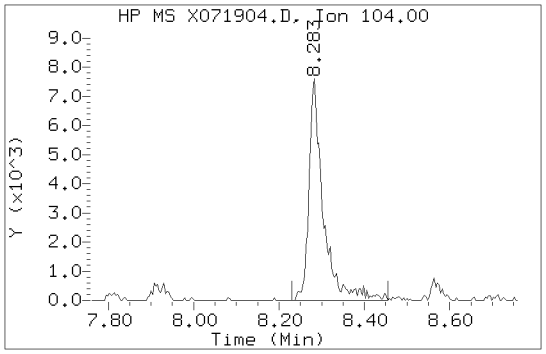
MASS
225
AREA
3610
HEIGHT
2711
25-Jul-2022
09:00
linh
pham



AFTER

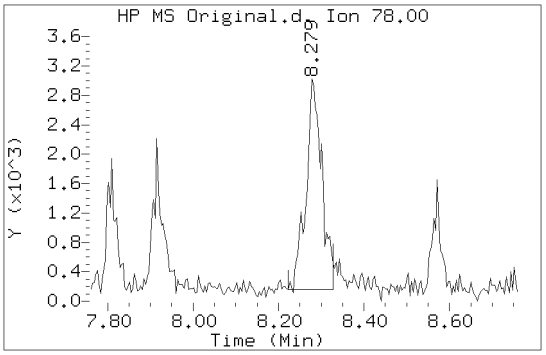
MASS
104
AREA
17705
HEIGHT
7602
08-Sep-2022
12:20
linh
pham

Reason Code:



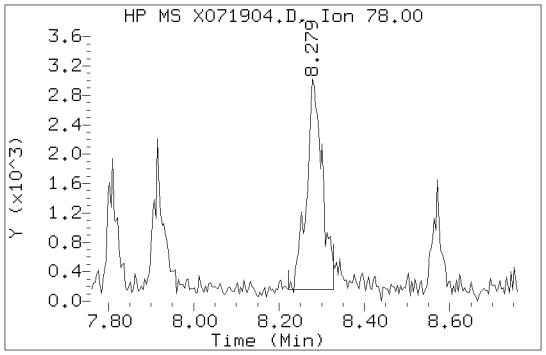
BEFORE

MASS
223
AREA
2686
HEIGHT
2055
25-Jul-2022
09:00
linh
pham



AFTER

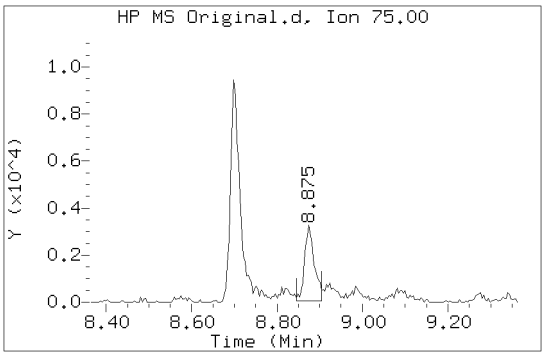
MASS
78
AREA
7412
HEIGHT
2867
08-Sep-2022
12:20
linh
pham



1,2,3-Trichloropropane (96-18-4)

BEFORE

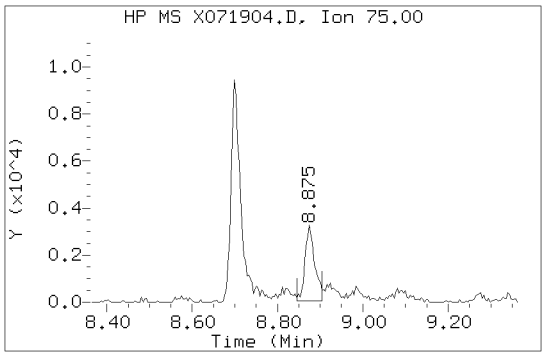
MASS
180
AREA
2063
HEIGHT
1112
25-Jul-2022
09:00
linh
pham



AFTER

MASS
75
AREA
5208
HEIGHT
3218
08-Sep-2022
12:20
linh
pham

Reason Code:



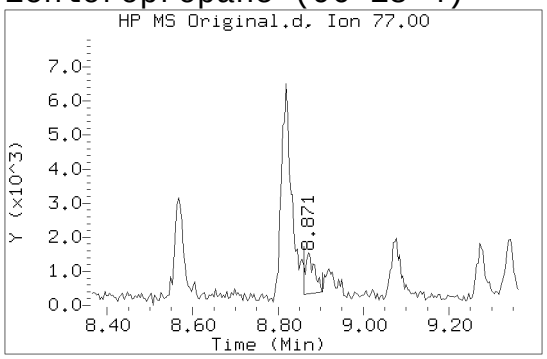
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071904.D
Inj Date : 19-JUL-2022 12:29
InstruID : voa6.i
LabSampID : VSTD001

1,2,3-Trichloropropane (96-18-4)

Reason Code:

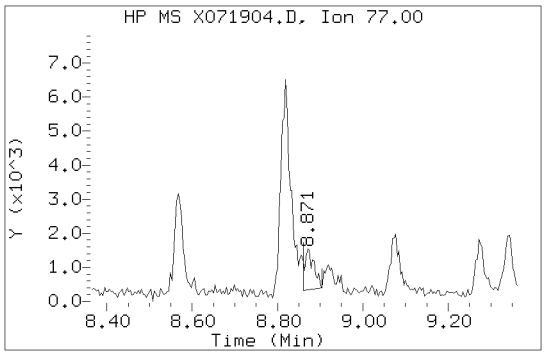
BEFORE

MASS
182
AREA
2188
HEIGHT
1051
25-Jul-2022
09:00
linh
pham



AFTER

MASS
77
AREA
1868
HEIGHT
1205
08-Sep-2022
12:20
linh
pham

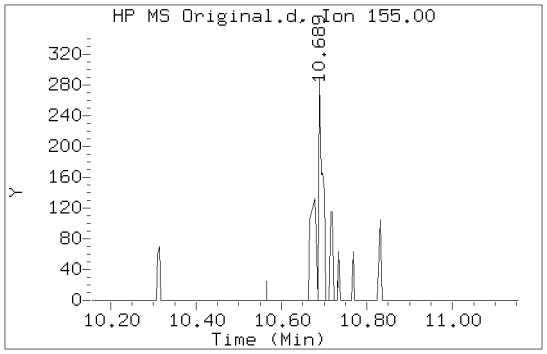


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

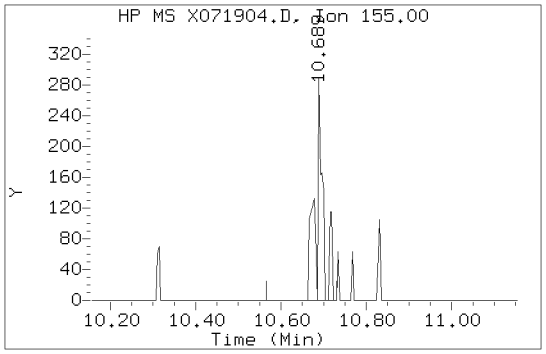
BEFORE

MASS
73
AREA
18285
HEIGHT
11966
25-Jul-2022
09:00
linh
pham



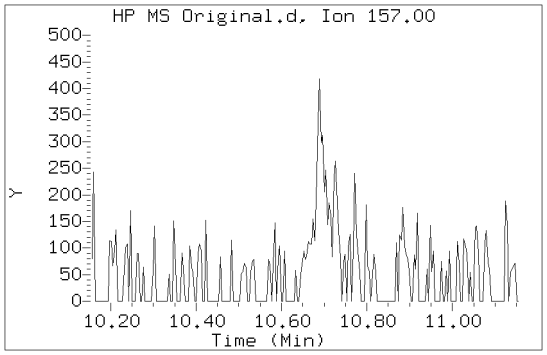
AFTER

MASS
155
AREA
348
HEIGHT
288
08-Sep-2022
12:20
linh
pham



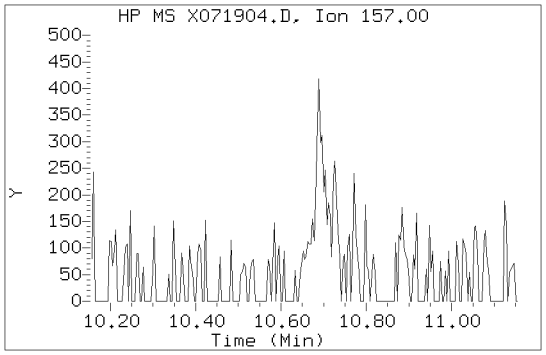
BEFORE

MASS
57
AREA
17060
HEIGHT
6448
25-Jul-2022
09:00
linh
pham



AFTER

MASS
157
AREA
0
HEIGHT
0
08-Sep-2022
12:20
linh
pham

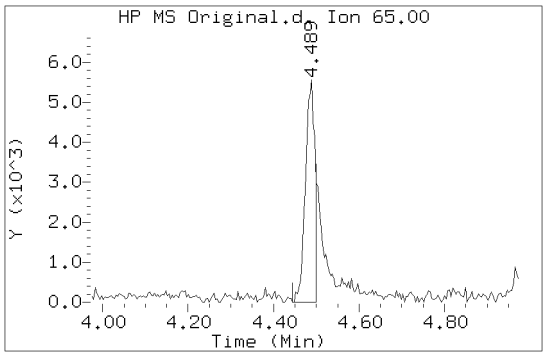


1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

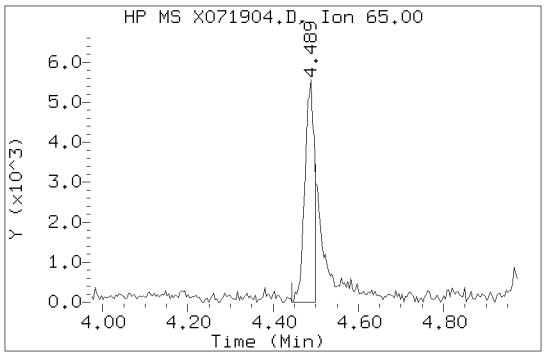
BEFORE

MASS
113
AREA
9308
HEIGHT
5059
25-Jul-2022
09:00
linh
pham



AFTER

MASS
65
AREA
8675
HEIGHT
5560
08-Sep-2022
12:20
linh
pham



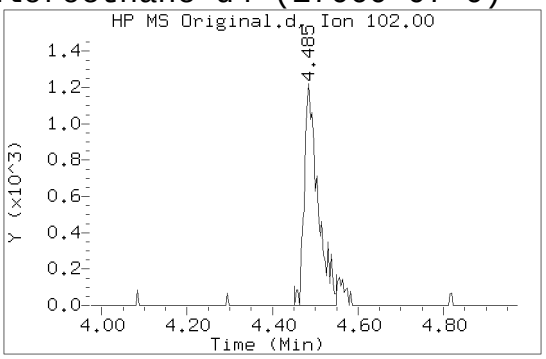
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071904.D
Inj Date : 19-JUL-2022 12:29
InstruID : voa6.i
LabSampID : VSTD001

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

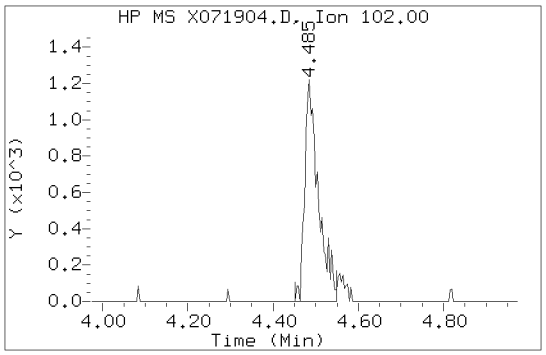
BEFORE

MASS
111
AREA
12165
HEIGHT
5300
25-Jul-2022
09:00
linh
pham



AFTER

MASS
102
AREA
2723
HEIGHT
1221
08-Sep-2022
12:20
linh
pham

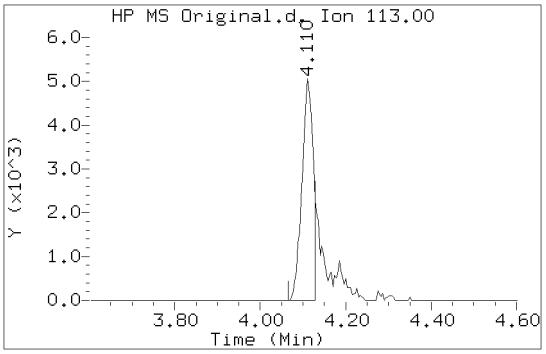


Dibromofluoromethane (1868-53-7)

Reason Code:

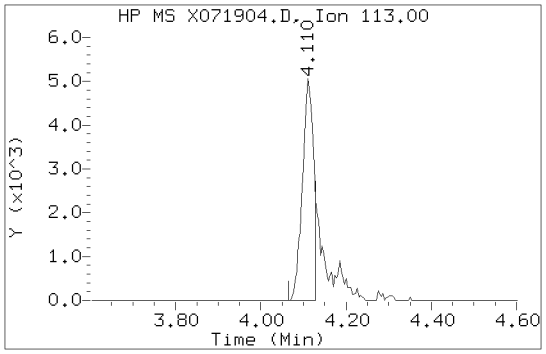
BEFORE

MASS
98
AREA
23913
HEIGHT
24224
25-Jul-2022
09:00
linh
pham



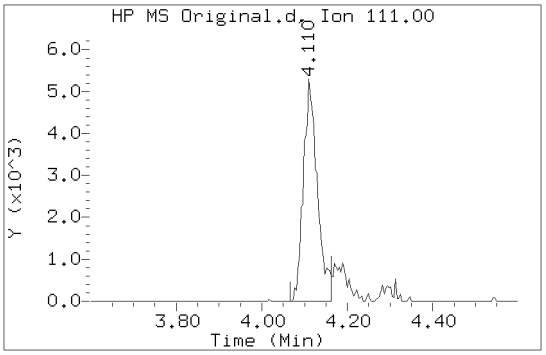
AFTER

MASS
113
AREA
9308
HEIGHT
5059
08-Sep-2022
12:20
linh
pham



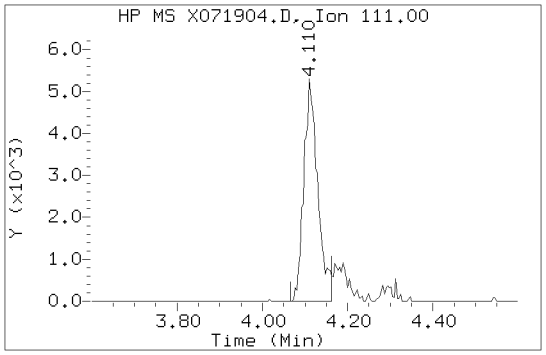
BEFORE

MASS
99
AREA
4207
HEIGHT
2158
25-Jul-2022
09:00
linh
pham



AFTER

MASS
111
AREA
12165
HEIGHT
5300
08-Sep-2022
12:20
linh
pham

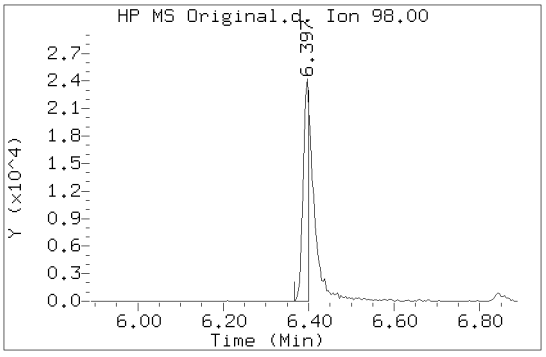


Toluene-d8 (2037-26-5)

Reason Code:

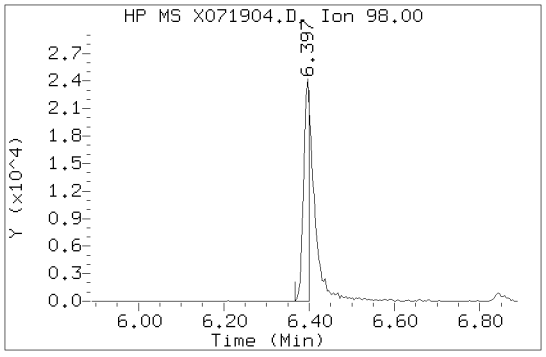
BEFORE

MASS
65
AREA
8675
HEIGHT
5560
25-Jul-2022
09:00
linh
pham



AFTER

MASS
98
AREA
23913
HEIGHT
24224
08-Sep-2022
12:20
linh
pham



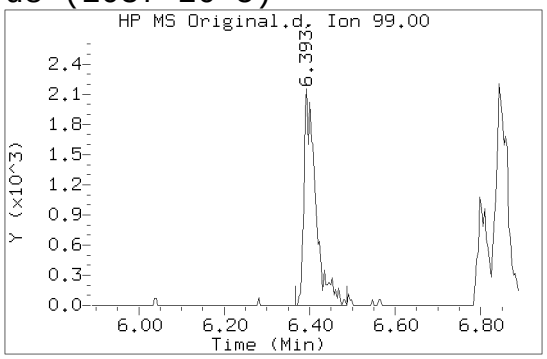
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071904.D
Inj Date : 19-JUL-2022 12:29
InstruID : voa6.i
LabSampID : VSTD001

Toluene-d8 (2037-26-5)

Reason Code:

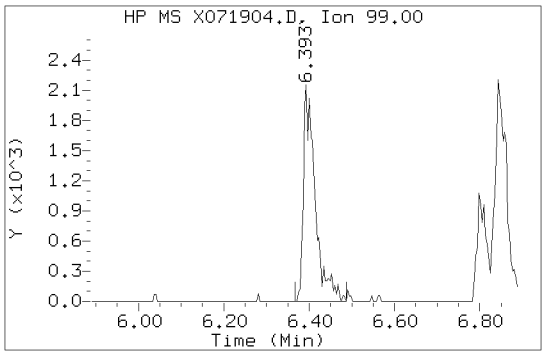
BEFORE

MASS
102
AREA
2723
HEIGHT
1221
25-Jul-2022
09:00
linh
pham



AFTER

MASS
99
AREA
4207
HEIGHT
2158
08-Sep-2022
12:20
linh
pham

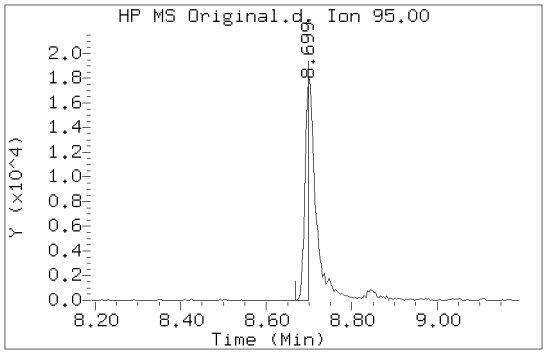


4-Bromofluorobenzene (460-00-4)

Reason Code:

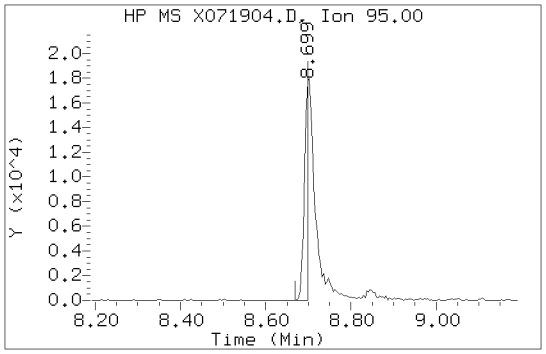
BEFORE

MASS
95
AREA
11894
HEIGHT
17792
25-Jul-2022
09:00
linh
pham



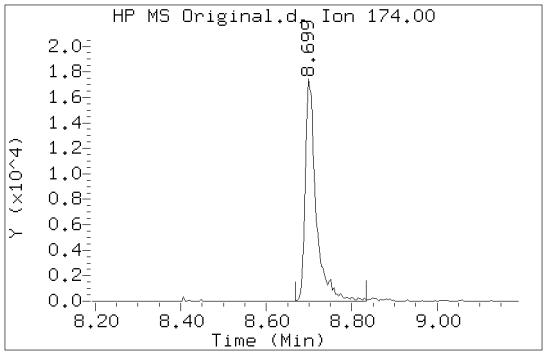
AFTER

MASS
95
AREA
11894
HEIGHT
17792
08-Sep-2022
12:20
linh
pham



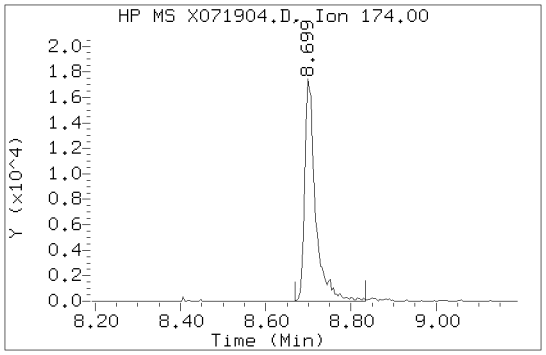
BEFORE

MASS
174
AREA
31362
HEIGHT
17448
25-Jul-2022
09:00
linh
pham



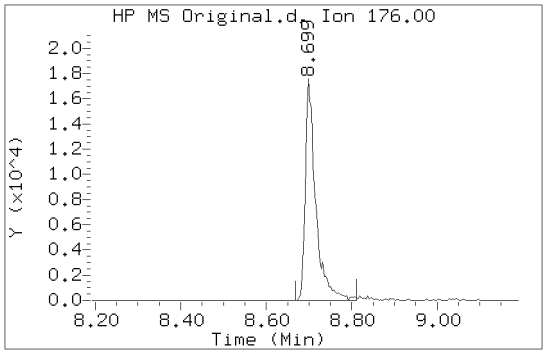
AFTER

MASS
174
AREA
31362
HEIGHT
17448
08-Sep-2022
12:20
linh
pham



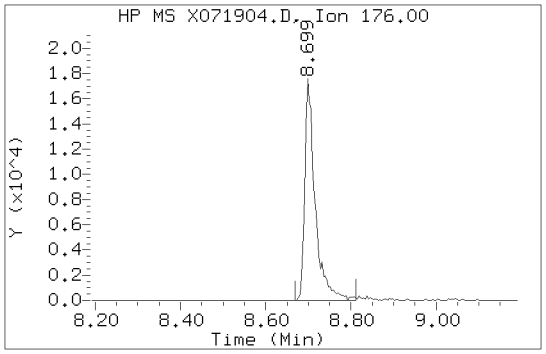
BEFORE

MASS
176
AREA
30039
HEIGHT
17592
25-Jul-2022
09:00
linh
pham



AFTER

MASS
176
AREA
30039
HEIGHT
17592
08-Sep-2022
12:20
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071905.D Page 1
Report Date: 08-Sep-2022 12:20

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071905.D
Lab Smp Id: VSTD002 Client Smp ID: VSTD002
Inj Date : 19-JUL-2022 12:50
Operator : PC Inst ID: voa6.i
Smp Info : VSTD002;VSTD002;1;4;
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\8260W.m
Meth Date : 08-Sep-2022 12:20 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 12:29 Cal File: X071904.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.185	4.185	(1.000)	749096	50.0000	
* 36 1,4-Difluorobenzene	114	4.968	4.968	(1.000)	1092048	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	978384	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.665	9.665	(1.000)	454442	50.0000	
$ 30 Dibromofluoromethane	113	4.110	4.110	(0.982)	18364	2.00000	1.90(a)
$ 35 1,2-Dichloroethane-d4	65	4.481	4.481	(1.071)	15130	2.00000	1.63(aM)
$ 48 Toluene-d8	98	6.397	6.397	(0.834)	53011	2.00000	2.17(aM)
$ 69 4-Bromofluorobenzene	95	8.698	8.698	(1.134)	19061	2.00000	1.39(aM)
60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	11843	2.00000	1.72(aM)
31 1,1,1-Trichloroethane	97	4.091	4.091	(0.978)	18665	2.00000	1.75(a)
68 1,1,2,2-Tetrachloroethane	83	8.845	8.845	(0.915)	11877	2.00000	1.86(a)
53 1,1,2-Trichloroethane	83	6.846	6.846	(0.893)	9847	2.00000	1.95(a)
22 1,1-Dichloroethane	63	2.937	2.937	(0.702)	21717	2.00000	1.88(a)
11 1,1-Dichloroethene	96	1.921	1.921	(0.459)	11822	2.00000	1.89(a)
32 1,1-Dichloropropene	75	4.290	4.290	(0.863)	15792	2.00000	1.79(a)
93 1,2,3-Trichlorobenzene	180	11.765	11.765	(1.217)	4350	2.00000	1.84(aM)
71 1,2,3-Trichloropropane	75	8.874	8.874	(0.918)	9920	2.00000	2.01(aM)
90 1,2,4-Trichlorobenzene	180	11.367	11.367	(1.176)	7590	2.00000	1.83(aM)
79 1,2,4-Trimethylbenzene	105	9.384	9.384	(0.971)	39752	2.00000	1.82(a)
89 1,2-Dibromo-3-Chloropropane	155	10.719	10.719	(1.109)	994	2.00000	2.52(aM)

57	1,2-Dibromoethane	107	7.266	7.266 (0.947)	11493	2.00000	1.80(a)
88	1,2-Dichlorobenzene	146	10.003	10.003 (1.035)	21378	2.00000	1.88(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
33 1,2-Dichloroethane	62	4.571	4.571	(0.920)	18694	2.00000	1.95(a)
42 1,2-Dichloropropane	63	5.441	5.441	(1.095)	12652	2.00000	1.88(aM)
75 1,3,5-Trimethylbenzene	105	9.073	9.073	(0.939)	40980	2.00000	1.85(a)
83 1,3-Dichlorobenzene	146	9.613	9.613	(0.995)	23262	2.00000	1.84(a)
54 1,3-Dichloropropane	76	6.989	6.989	(0.911)	18638	2.00000	1.82(a)
84 1,4-Dichlorobenzene	146	9.688	9.688	(1.002)	27562	2.00000	2.05(a)
26 2,2-Dichloropropane	77	3.514	3.514	(0.840)	20343	2.00000	1.74(a)
24 2-Butanone	43	3.675	3.675	(0.878)	7321	4.00000	3.89(aM)
76 2-Chlorotoluene	91	8.979	8.979	(0.929)	37863	2.00000	1.94(aM)
52 2-Hexanone	43	7.105	7.105	(0.926)	11235	4.00000	3.65(aM)
77 4-Chlorotoluene	91	9.081	9.081	(0.940)	40205	2.00000	1.84(a)
82 p-Isopropyltoluene	119	9.654	9.654	(0.999)	37293	2.00000	1.68(a)
45 4-Methyl-2-Pentanone	43	6.340	6.340	(0.827)	17683	4.00000	3.70(a)
10 Acetone	43	1.981	1.981	(0.473)	7337	4.00000	(aM)
37 Benzene	78	4.519	4.519	(0.909)	48445	2.00000	1.87(a)
74 Bromobenzene	156	8.815	8.815	(0.912)	14765	2.00000	1.90(a)
29 Bromochloromethane	128	3.799	3.799	(0.908)	7950	2.00000	1.88(a)
39 Bromodichloromethane	83	5.733	5.733	(1.154)	16875	2.00000	1.82(a)
66 Bromoform	173	8.417	8.417	(1.097)	7169	2.00000	2.70(TaM)
6 Bromomethane	94	1.347	1.347	(0.322)	13133	2.00000	1.26(aM)
19 Carbon Disulfide	76	2.078	2.078	(0.497)	59291	4.00000	3.58(a)
34 Carbon Tetrachloride	117	4.271	4.271	(0.860)	17025	2.00000	1.80(aMH)
59 Chlorobenzene	112	7.697	7.697	(1.003)	35149	2.00000	1.89(a)
7 Chloroethane	64	1.411	1.411	(0.337)	9295	2.00000	1.93(a)
28 Chloroform	83	3.919	3.919	(0.936)	22862	2.00000	1.80(a)
3 Chloromethane	50	1.085	1.085	(0.259)	13594	2.00000	2.01(a)
27 cis-1,2-Dichloroethene	96	3.544	3.544	(0.847)	12905	2.00000	1.73(a)
46 cis-1,3-Dichloropropene	75	6.164	6.164	(1.241)	20286	2.00000	1.79(aM)
55 Dibromochloromethane	129	7.180	7.180	(0.936)	13652	2.00000	1.87(a)
44 Dibromomethane	93	5.564	5.564	(1.120)	8339	2.00000	1.84(a)
2 Dichlorodifluoromethane	85	0.976	0.976	(0.233)	12732	2.00000	1.61(a)
61 Ethylbenzene	106	7.806	7.806	(1.018)	16956	2.00000	1.80(a)
91 Hexachlorobutadiene	225	11.484	11.484	(1.188)	6994	2.00000	1.82(aM)
67 Isopropylbenzene	105	8.567	8.567	(1.117)	50981	2.00000	1.80(a)
62 m,p-Xylenes	106	7.911	7.911	(1.031)	44013	4.00000	3.77(aM)
17 Methylene Chloride	84	2.311	2.311	(0.552)	16740	2.00000	1.59(aM)
87 n-Butylbenzene	91	10.007	10.007	(1.035)	31547	2.00000	1.71(aM)
73 n-Propylbenzene	91	8.919	8.919	(0.923)	53786	2.00000	1.79(a)
92 Naphthalene	128	11.592	11.592	(1.199)	8600	2.00000	1.85(aM)
63 o-Xylene	106	8.248	8.248	(1.075)	20993	2.00000	1.85(aM)
81 sec-Butylbenzene	105	9.523	9.523	(0.985)	46135	2.00000	1.80(a)
64 Styrene	104	8.271	8.271	(1.078)	32495	2.00000	1.74(aM)
78 tert-Butylbenzene	119	9.339	9.339	(0.966)	33676	2.00000	1.80(a)
56 Tetrachloroethene	164	6.933	6.933	(0.904)	11817	2.00000	1.86(a)
50 Toluene	91	6.457	6.457	(0.842)	51658	2.00000	1.87(a)
20 trans-1,2-Dichloroethene	96	2.543	2.543	(0.608)	11820	2.00000	1.79(aM)
51 trans-1,3-Dichloropropene	75	6.697	6.697	(1.348)	17450	2.00000	1.85(aM)
38 Trichloroethene	130	5.216	5.216	(1.050)	14143	2.00000	1.84(a)
8 Trichlorofluoromethane	101	1.565	1.565	(0.374)	22137	2.00000	1.87(a)
5 Vinyl Chloride	62	1.149	1.149	(0.275)	14813	2.00000	1.88(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

01141177

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071905.D

Page 1

Date : 19-JUL-2022 12:50

Client ID: VSTD002

Instrument: voa6.i

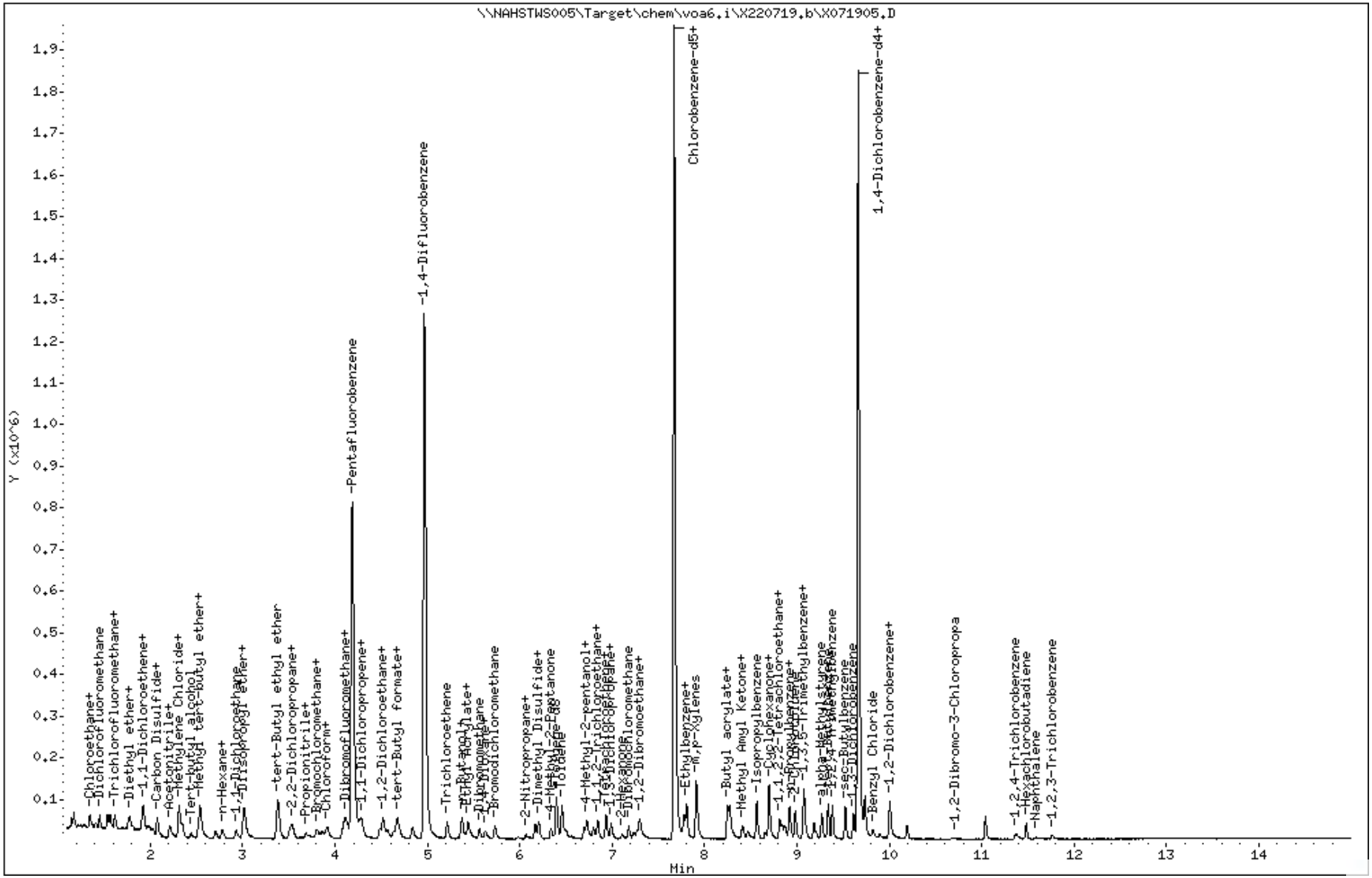
Sample Info: VSTD002;VSTD002;1;4;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



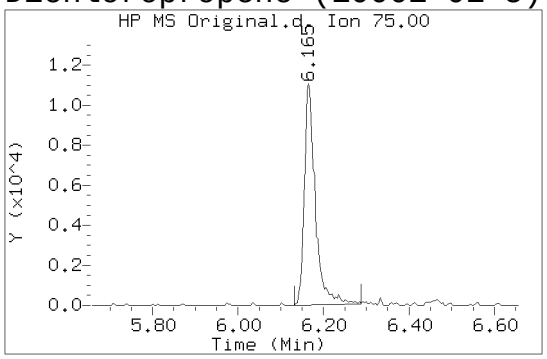
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071905.D
Inj Date : 19-JUL-2022 12:50
InstruID : voa6.i
LabSampID : VSTD002

cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

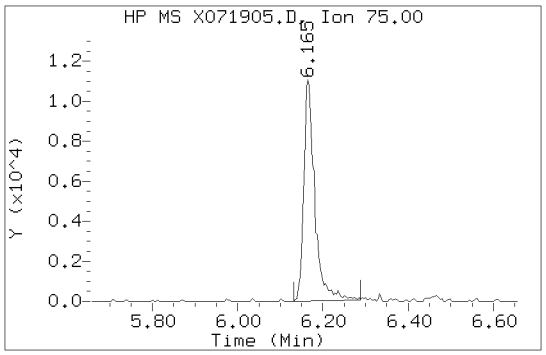
BEFORE

MASS
128
AREA
7950
HEIGHT
3264
25-Jul-2022
09:00
linh
pham



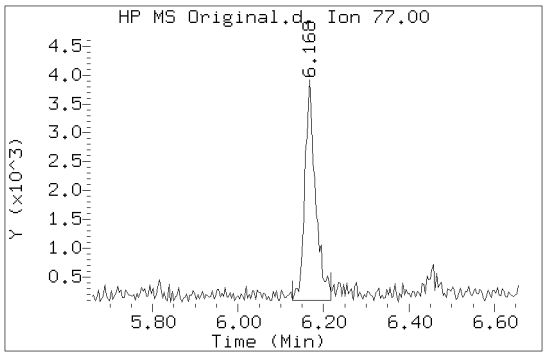
AFTER

MASS
75
AREA
20286
HEIGHT
11063
08-Sep-2022
12:20
linh
pham



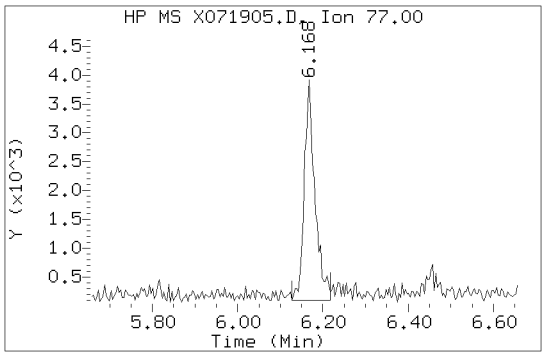
BEFORE

MASS
49
AREA
10115
HEIGHT
4742
25-Jul-2022
09:00
linh
pham



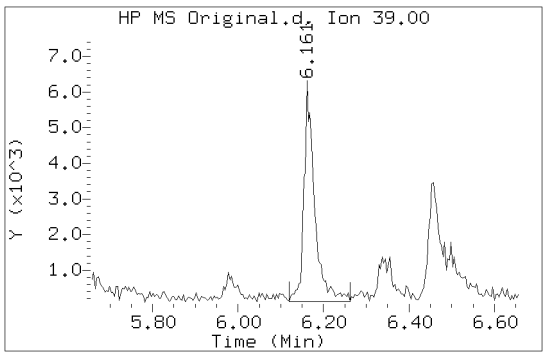
AFTER

MASS
77
AREA
6769
HEIGHT
3822
08-Sep-2022
12:20
linh
pham



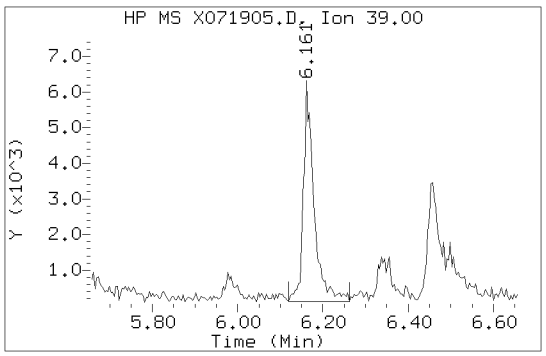
BEFORE

MASS
130
AREA
9849
HEIGHT
3928
25-Jul-2022
09:00
linh
pham



AFTER

MASS
39
AREA
10962
HEIGHT
6193
08-Sep-2022
12:20
linh
pham

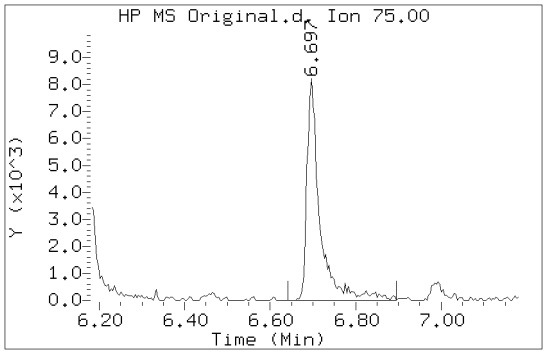


trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

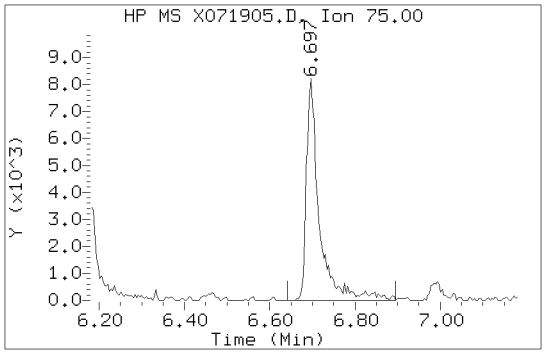
BEFORE

MASS
43
AREA
7321
HEIGHT
2938
25-Jul-2022
09:00
linh
pham



AFTER

MASS
75
AREA
17450
HEIGHT
8215
08-Sep-2022
12:20
linh
pham



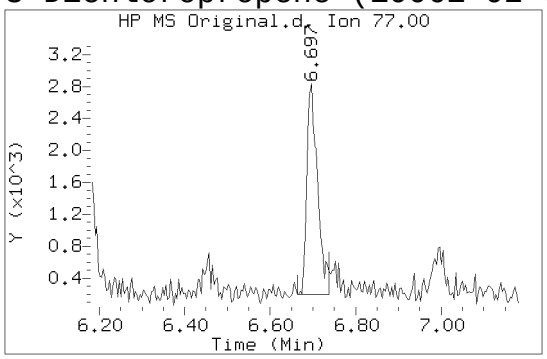
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071905.D
Inj Date : 19-JUL-2022 12:50
InstruID : voa6.i
LabSampID : VSTD002

trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

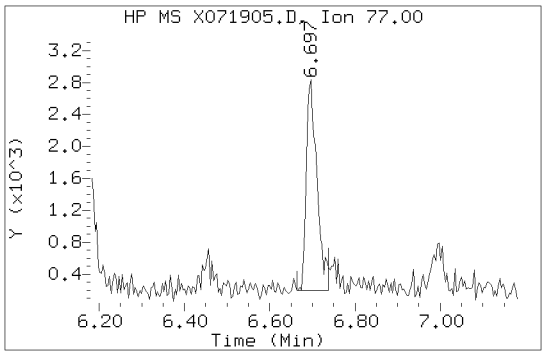
BEFORE

MASS
72
AREA
1160
HEIGHT
768
25-Jul-2022
09:00
linh
pham



AFTER

MASS
77
AREA
4630
HEIGHT
2637
08-Sep-2022
12:20
linh
pham

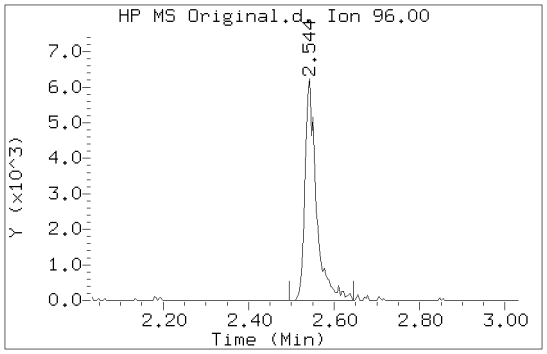


trans-1,2-Dichloroethene (156-60-5)

Reason Code:

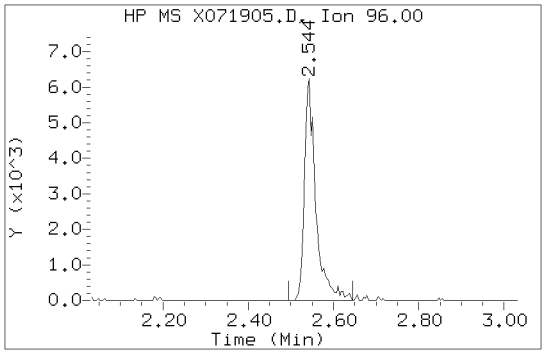
BEFORE

MASS
129
AREA
13652
HEIGHT
8676
25-Jul-2022
09:00
linh
pham



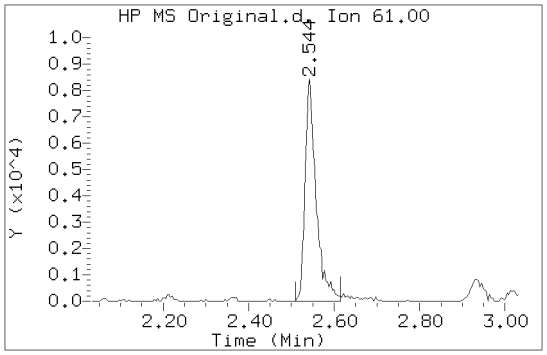
AFTER

MASS
96
AREA
11820
HEIGHT
6241
08-Sep-2022
12:20
linh
pham



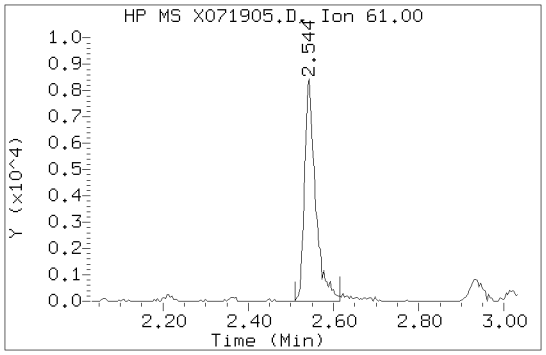
BEFORE

MASS
127
AREA
9867
HEIGHT
6422
25-Jul-2022
09:00
linh
pham



AFTER

MASS
61
AREA
15499
HEIGHT
8443
08-Sep-2022
12:20
linh
pham

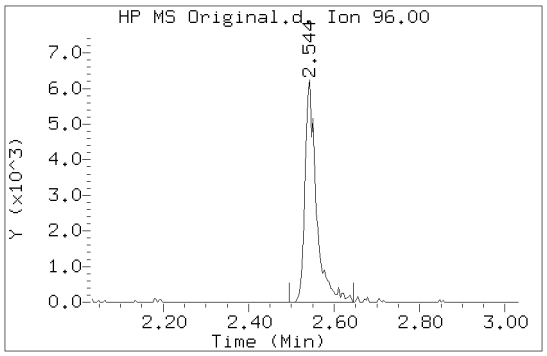


1,1,1,2-Tetrachloroethane (630-20-6)

Reason Code:

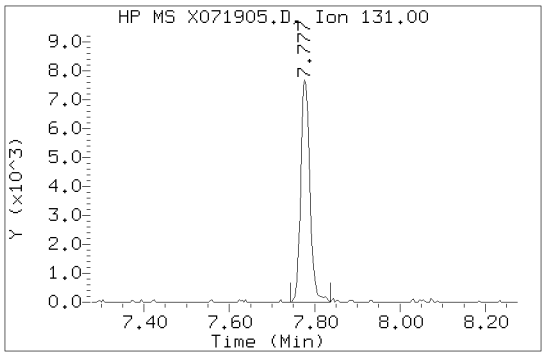
BEFORE

MASS
43
AREA
17683
HEIGHT
8385
25-Jul-2022
09:00
linh
pham



AFTER

MASS
131
AREA
11843
HEIGHT
7685
08-Sep-2022
12:20
linh
pham

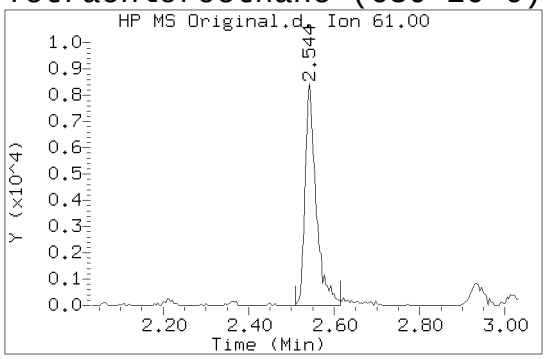


Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071905.D
Inj Date : 19-JUL-2022 12:50
InstruID : voa6.i
LabSampID : VSTD002

1,1,1,2-Tetrachloroethane (630-20-6)

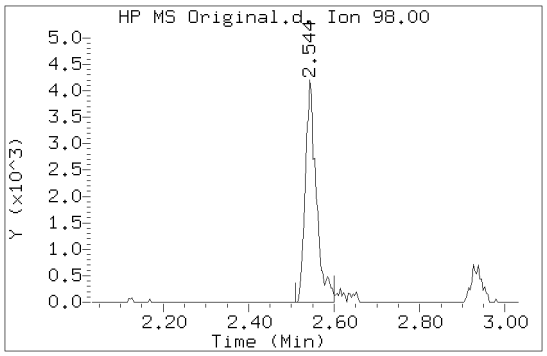
BEFORE

MASS
58
AREA
6197
HEIGHT
3721
25-Jul-2022
09:00
linh
pham



BEFORE

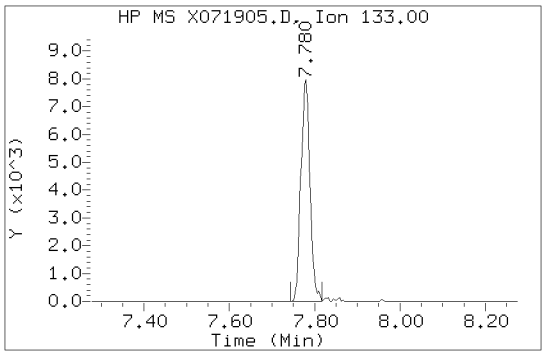
MASS
100
AREA
2577
HEIGHT
1669
25-Jul-2022
09:00
linh
pham



Reason Code:

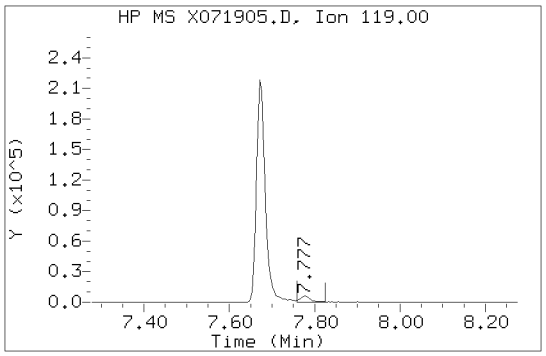
AFTER

MASS
133
AREA
12135
HEIGHT
7970
08-Sep-2022
12:20
linh
pham



AFTER

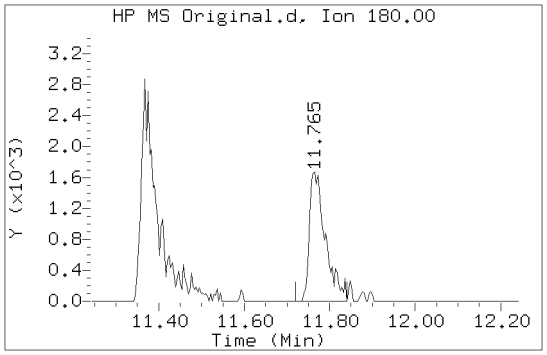
MASS
119
AREA
9417
HEIGHT
5791
08-Sep-2022
12:20
linh
pham



1,2,3-Trichlorobenzene (87-61-6)

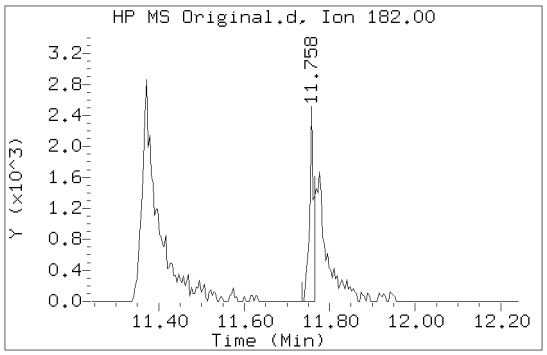
BEFORE

MASS
77
AREA
20343
HEIGHT
7624
25-Jul-2022
09:00
linh
pham



BEFORE

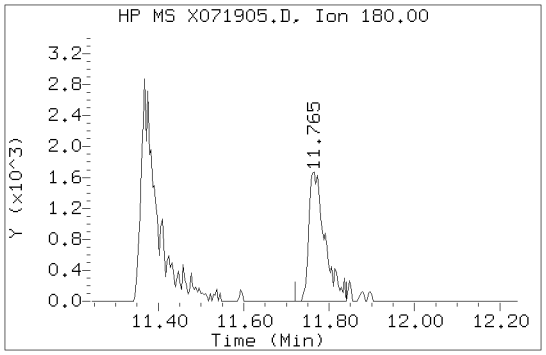
MASS
97
AREA
4262
HEIGHT
1855
25-Jul-2022
09:00
linh
pham



Reason Code:

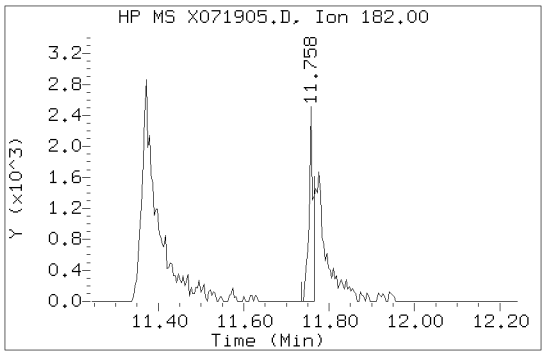
AFTER

MASS
180
AREA
4350
HEIGHT
1674
08-Sep-2022
12:20
linh
pham



AFTER

MASS
182
AREA
1686
HEIGHT
2516
08-Sep-2022
12:20
linh
pham



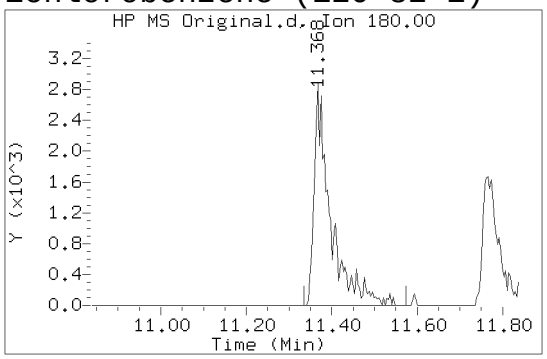
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071905.D
Inj Date : 19-JUL-2022 12:50
InstruID : voa6.i
LabSampID : VSTD002

1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

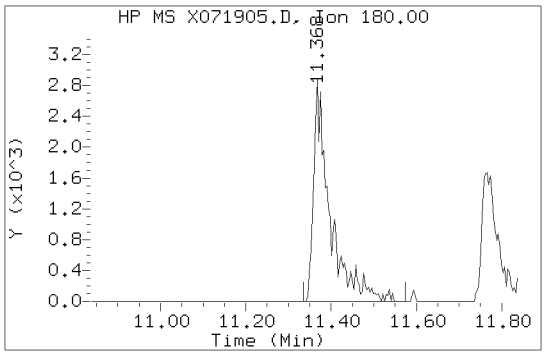
BEFORE

MASS
93
AREA
8339
HEIGHT
4545
25-Jul-2022
09:00
linh
pham



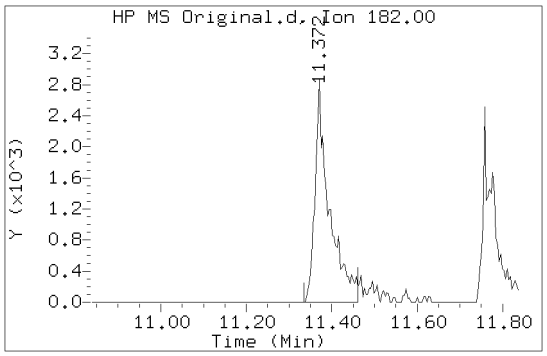
AFTER

MASS
180
AREA
7590
HEIGHT
2875
08-Sep-2022
12:20
linh
pham



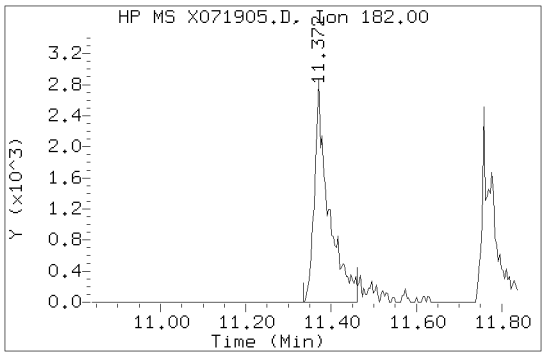
BEFORE

MASS
95
AREA
6507
HEIGHT
3494
25-Jul-2022
09:00
linh
pham



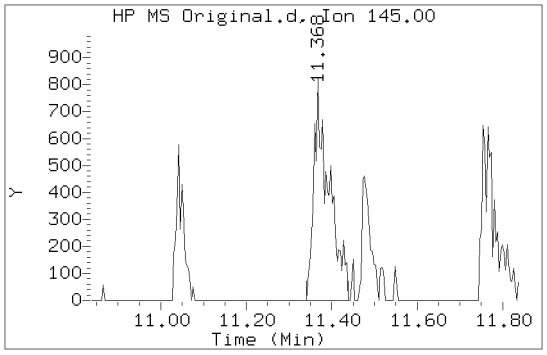
AFTER

MASS
182
AREA
6596
HEIGHT
2861
08-Sep-2022
12:20
linh
pham



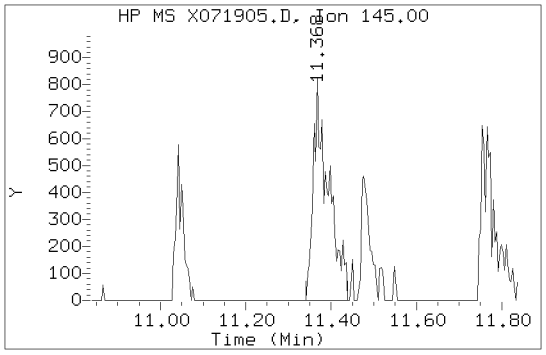
BEFORE

MASS
174
AREA
9376
HEIGHT
4902
25-Jul-2022
09:00
linh
pham



AFTER

MASS
145
AREA
1993
HEIGHT
822
08-Sep-2022
12:20
linh
pham

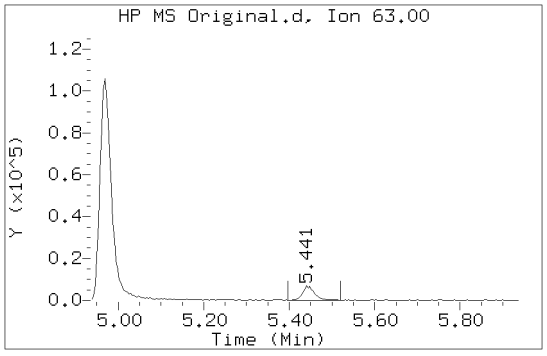


1,2-Dichloropropane (78-87-5)

Reason Code:

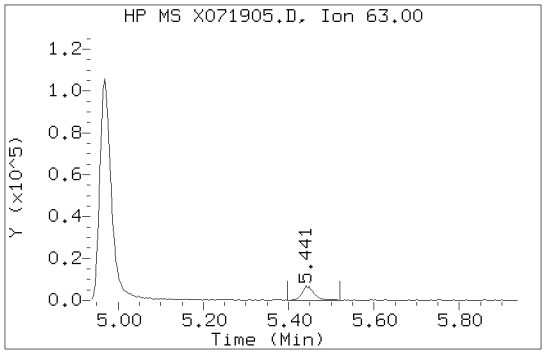
BEFORE

MASS
96
AREA
11820
HEIGHT
6241
25-Jul-2022
09:00
linh
pham



AFTER

MASS
63
AREA
12652
HEIGHT
7049
08-Sep-2022
12:20
linh
pham



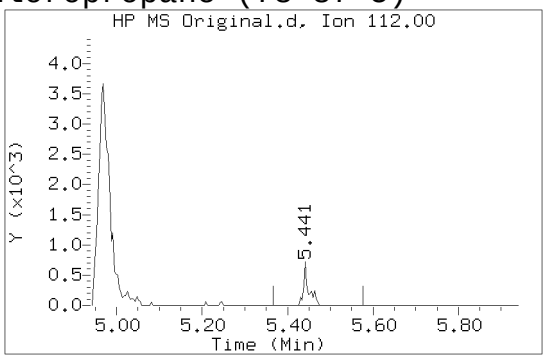
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071905.D
Inj Date : 19-JUL-2022 12:50
InstruID : voa6.i
LabSampID : VSTD002

1,2-Dichloropropane (78-87-5)

Reason Code:

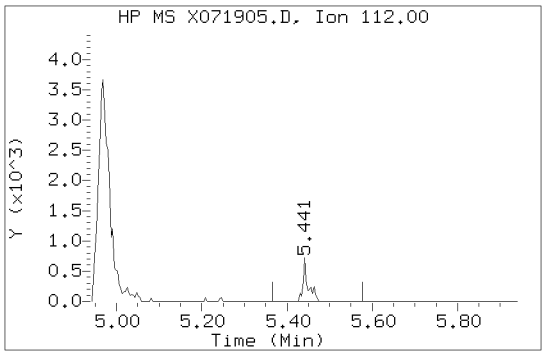
BEFORE

MASS
61
AREA
15499
HEIGHT
8443
25-Jul-2022
09:00
linh
pham



AFTER

MASS
112
AREA
621
HEIGHT
722
08-Sep-2022
12:20
linh
pham

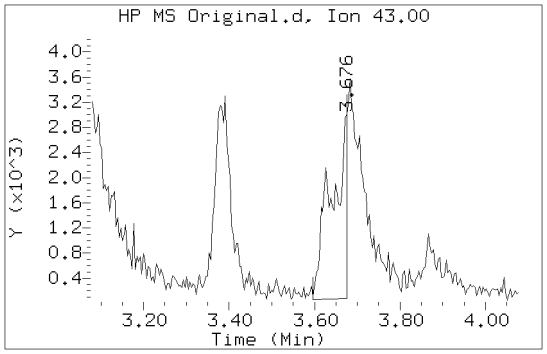


2-Butanone (78-93-3)

Reason Code:

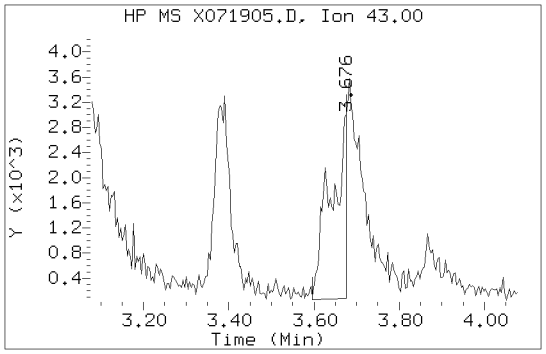
BEFORE

MASS
83
AREA
11877
HEIGHT
7406
25-Jul-2022
09:00
linh
pham



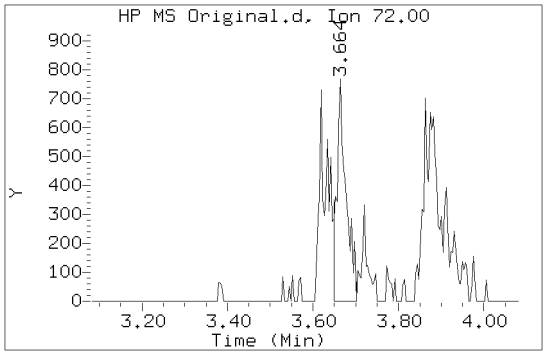
AFTER

MASS
43
AREA
7321
HEIGHT
2938
08-Sep-2022
12:20
linh
pham



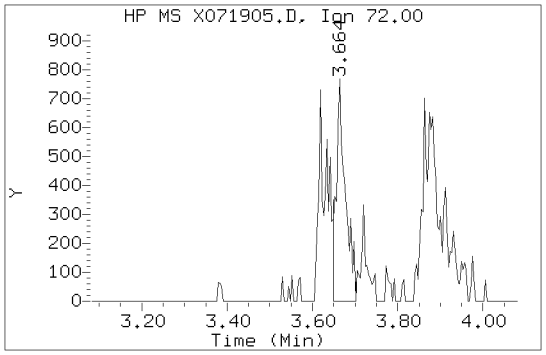
BEFORE

MASS
131
AREA
1518
HEIGHT
1092
25-Jul-2022
09:00
linh
pham



AFTER

MASS
72
AREA
1160
HEIGHT
768
08-Sep-2022
12:20
linh
pham

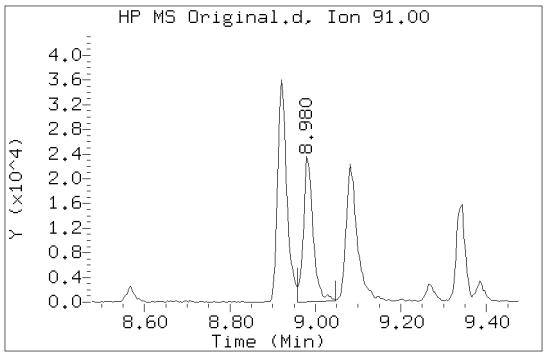


2-Chlorotoluene (95-49-8)

Reason Code:

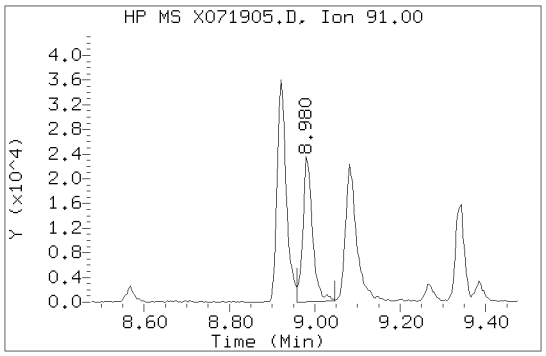
BEFORE

MASS
164
AREA
11817
HEIGHT
8696
25-Jul-2022
09:00
linh
pham



AFTER

MASS
91
AREA
37863
HEIGHT
23522
08-Sep-2022
12:20
linh
pham



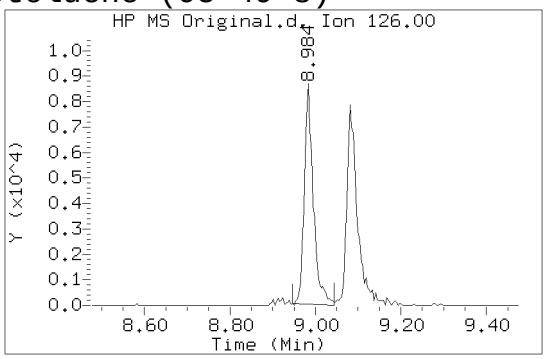
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071905.D
Inj Date : 19-JUL-2022 12:50
InstruID : voa6.i
LabSampID : VSTD002

2-Chlorotoluene (95-49-8)

Reason Code:

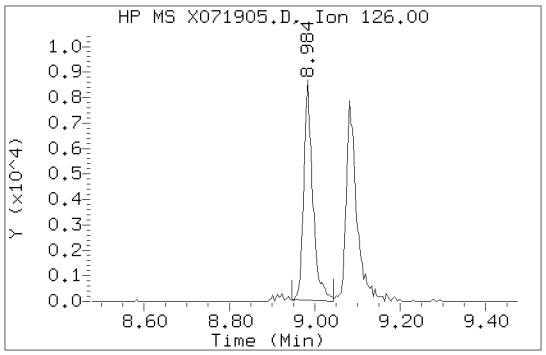
BEFORE

MASS
129
AREA
10743
HEIGHT
6687
25-Jul-2022
09:00
linh
pham



AFTER

MASS
126
AREA
12835
HEIGHT
8653
08-Sep-2022
12:20
linh
pham

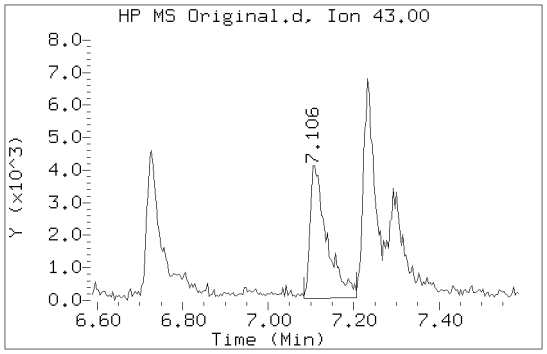


2-Hexanone (591-78-6)

Reason Code:

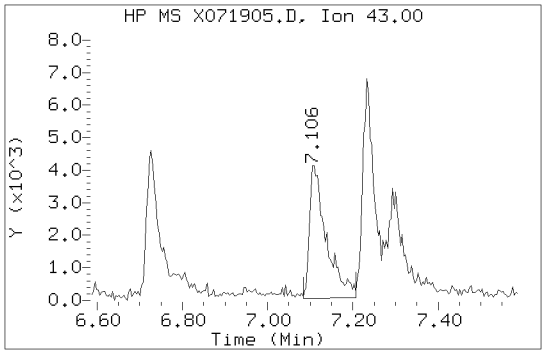
BEFORE

MASS
97
AREA
18665
HEIGHT
7822
25-Jul-2022
09:00
linh
pham



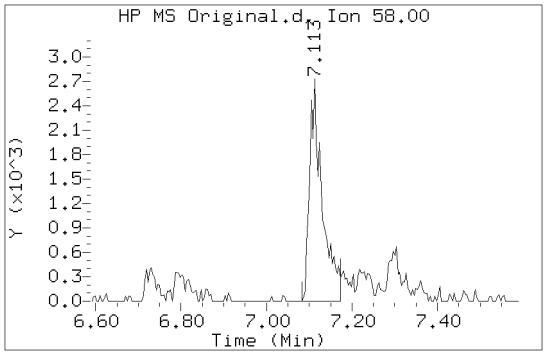
AFTER

MASS
43
AREA
11235
HEIGHT
4065
08-Sep-2022
12:20
linh
pham



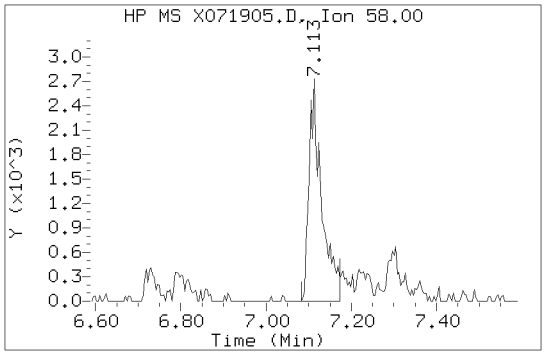
BEFORE

MASS
99
AREA
11761
HEIGHT
5110
25-Jul-2022
09:00
linh
pham



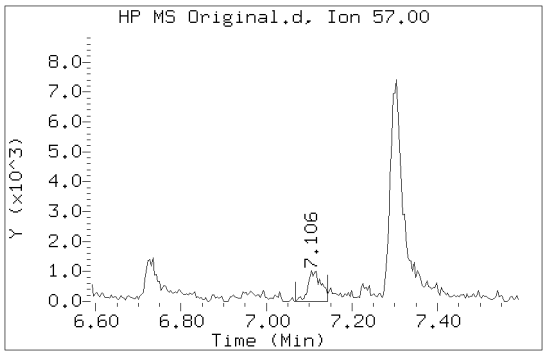
AFTER

MASS
58
AREA
5567
HEIGHT
2731
08-Sep-2022
12:20
linh
pham



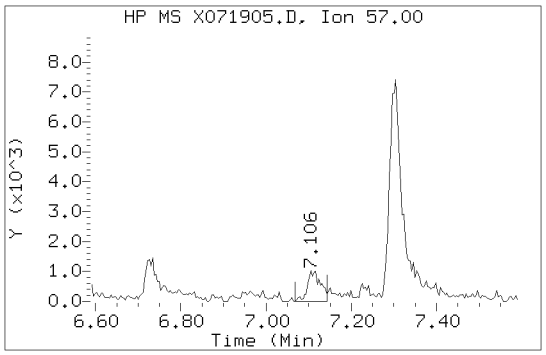
BEFORE

MASS
61
AREA
8134
HEIGHT
3813
25-Jul-2022
09:00
linh
pham



AFTER

MASS
57
AREA
2199
HEIGHT
1027
08-Sep-2022
12:20
linh
pham

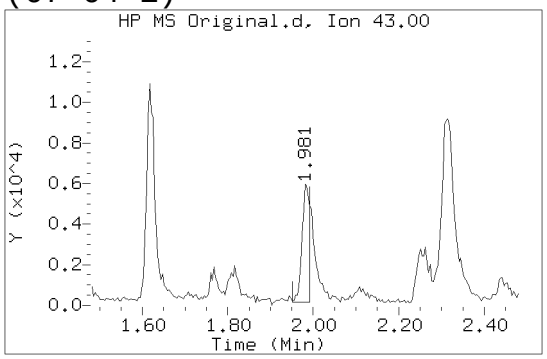


Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071905.D
Inj Date : 19-JUL-2022 12:50
InstruID : voa6.i
LabSampID : VSTD002

Acetone (67-64-1)

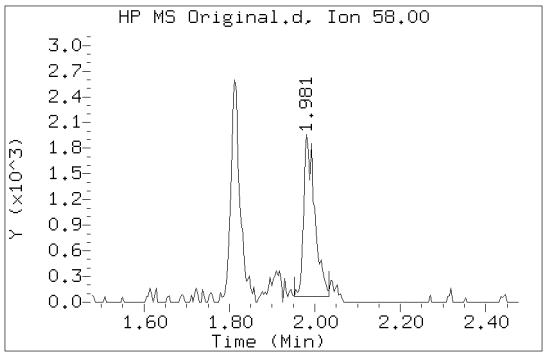
BEFORE

MASS
62
AREA
14813
HEIGHT
12919
25-Jul-2022
09:00
linh
pham



BEFORE

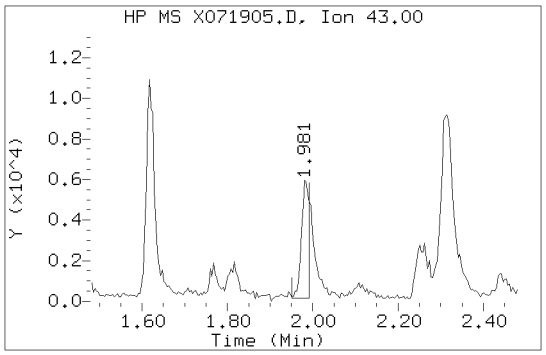
MASS
64
AREA
4927
HEIGHT
4173
25-Jul-2022
09:00
linh
pham



Reason Code:

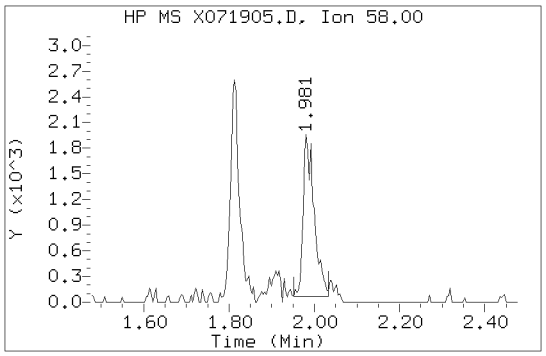
AFTER

MASS
43
AREA
7337
HEIGHT
5791
08-Sep-2022
12:20
linh
pham



AFTER

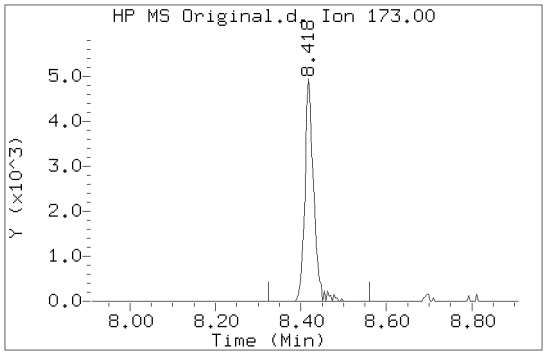
MASS
58
AREA
3464
HEIGHT
1894
08-Sep-2022
12:20
linh
pham



Bromoform (75-25-2)

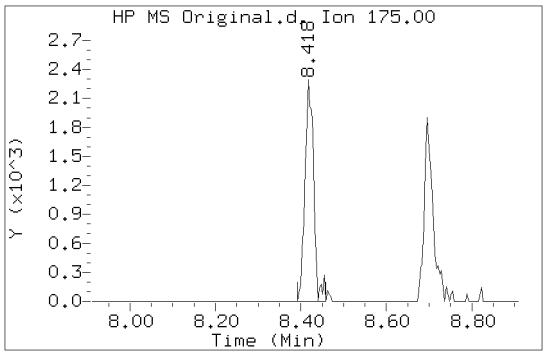
BEFORE

MASS
64
AREA
9295
HEIGHT
7022
25-Jul-2022
09:00
linh
pham



BEFORE

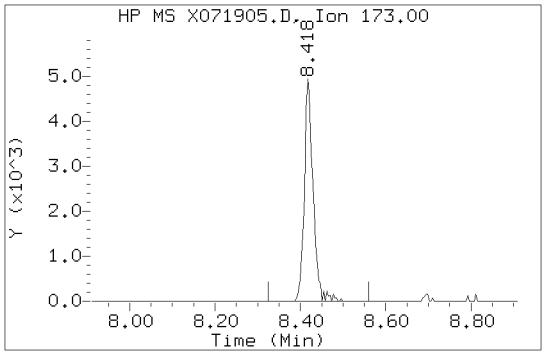
MASS
66
AREA
2894
HEIGHT
2425
25-Jul-2022
09:00
linh
pham



Reason Code:

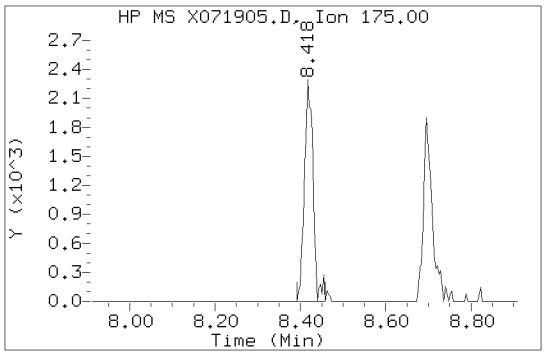
AFTER

MASS
173
AREA
7169
HEIGHT
4944
08-Sep-2022
12:20
linh
pham



AFTER

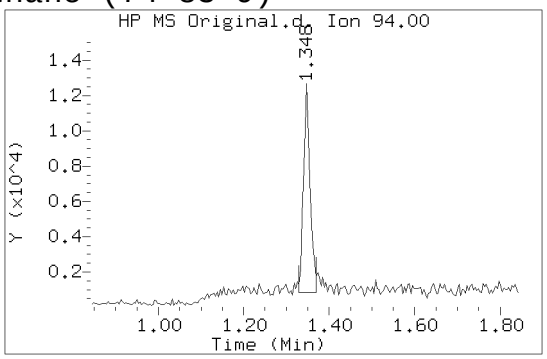
MASS
175
AREA
3299
HEIGHT
2294
08-Sep-2022
12:20
linh
pham



Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071905.D
Inj Date : 19-JUL-2022 12:50
InstruID : voa6.i
LabSampID : VSTD002

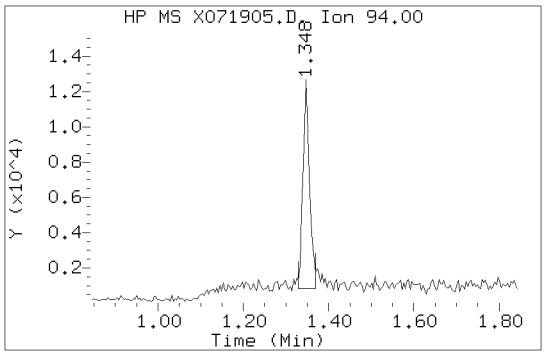
Bromomethane (74-83-9)

BEFORE
MASS
83
AREA
22862
HEIGHT
9582
25-Jul-2022
09:00
linh
pham

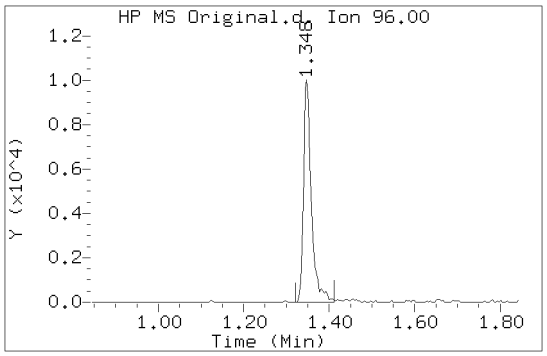


Reason Code:

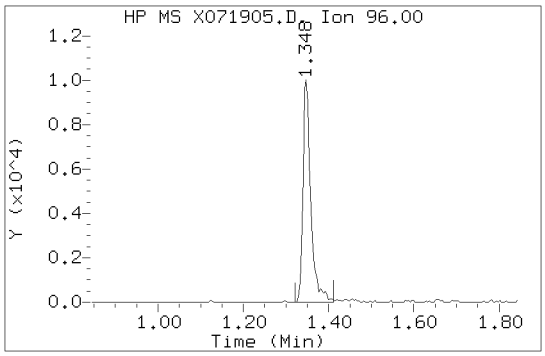
AFTER
MASS
94
AREA
13133
HEIGHT
11831
08-Sep-2022
12:20
linh
pham



BEFORE
MASS
85
AREA
13889
HEIGHT
5732
25-Jul-2022
09:00
linh
pham

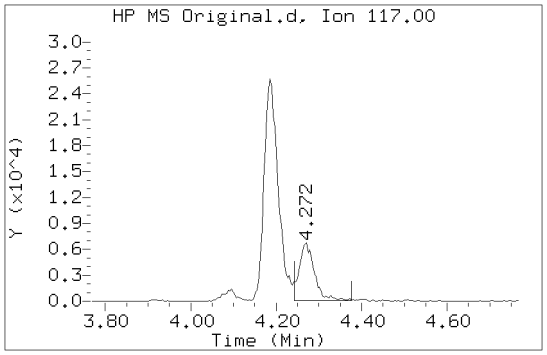


AFTER
MASS
96
AREA
13187
HEIGHT
10014
08-Sep-2022
12:20
linh
pham



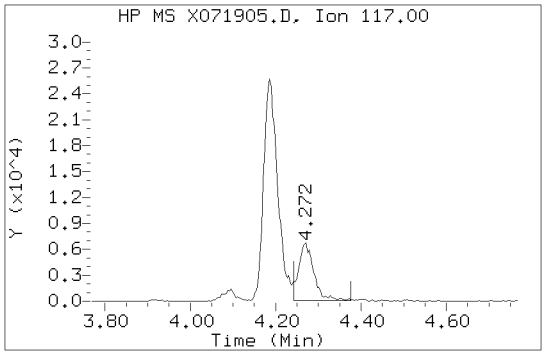
Carbon Tetrachloride (56-23-5)

BEFORE
MASS
96
AREA
12905
HEIGHT
5109
25-Jul-2022
09:00
linh
pham

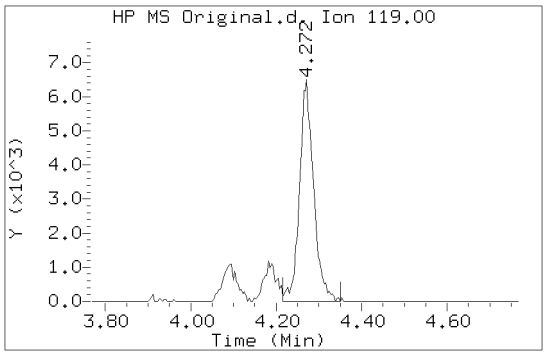


Reason Code:

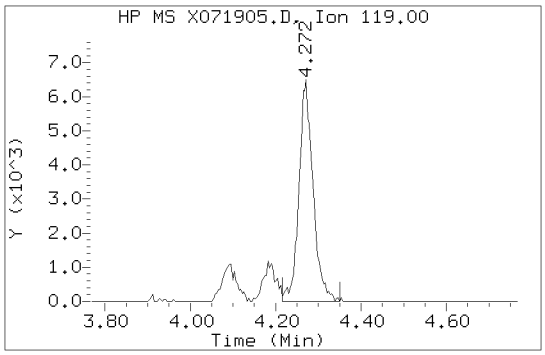
AFTER
MASS
117
AREA
17025
HEIGHT
6726
08-Sep-2022
12:20
linh
pham



BEFORE
MASS
61
AREA
18838
HEIGHT
7221
25-Jul-2022
09:00
linh
pham



AFTER
MASS
119
AREA
15166
HEIGHT
6498
08-Sep-2022
12:20
linh
pham



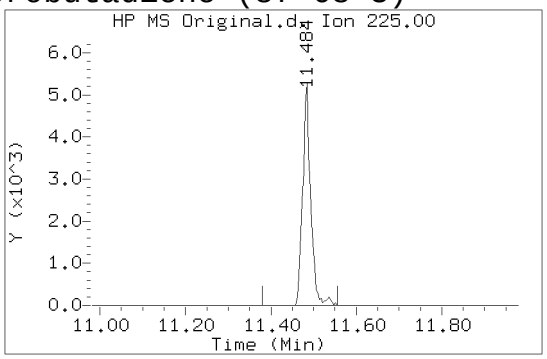
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071905.D
Inj Date : 19-JUL-2022 12:50
InstruID : voa6.i
LabSampID : VSTD002

Hexachlorobutadiene (87-68-3)

Reason Code:

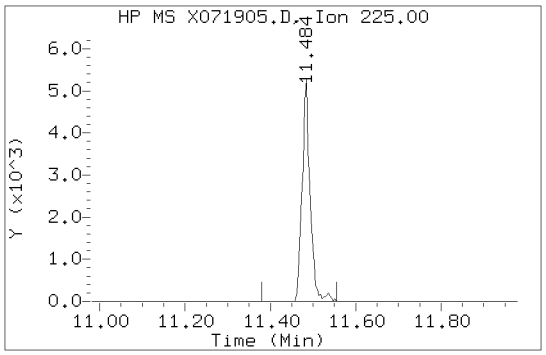
BEFORE

MASS
91
AREA
53786
HEIGHT
35911
25-Jul-2022
09:00
linh
pham



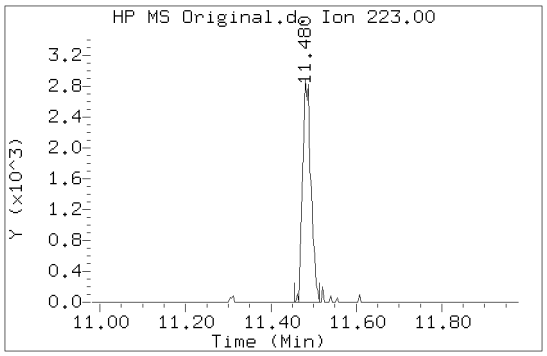
AFTER

MASS
225
AREA
6994
HEIGHT
5264
08-Sep-2022
12:20
linh
pham



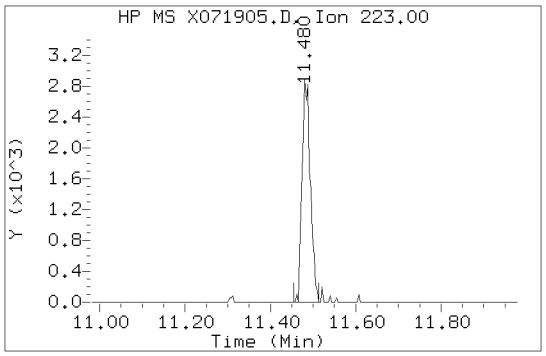
BEFORE

MASS
120
AREA
13286
HEIGHT
8412
25-Jul-2022
09:00
linh
pham



AFTER

MASS
223
AREA
4036
HEIGHT
2879
08-Sep-2022
12:20
linh
pham

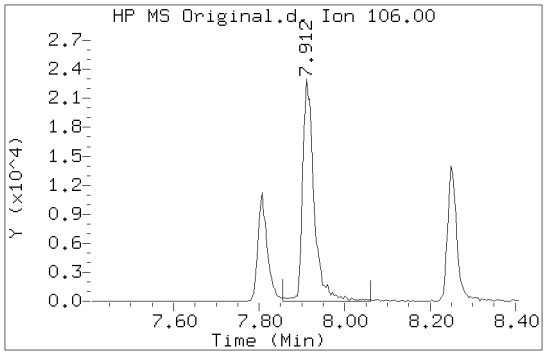


m,p-Xylenes ()

Reason Code:

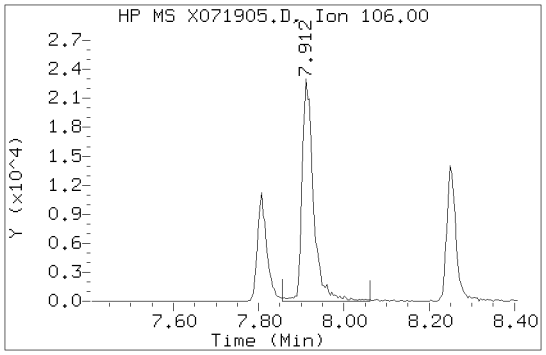
BEFORE

MASS
105
AREA
40980
HEIGHT
28240
25-Jul-2022
09:00
linh
pham



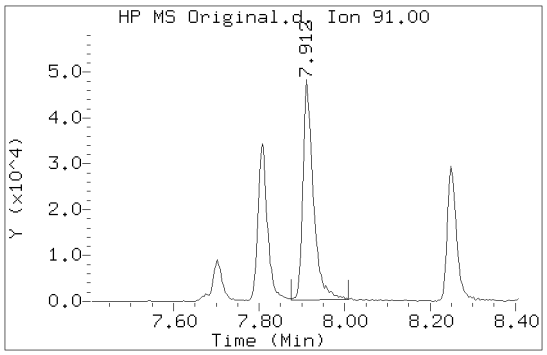
AFTER

MASS
106
AREA
44013
HEIGHT
23003
08-Sep-2022
12:20
linh
pham



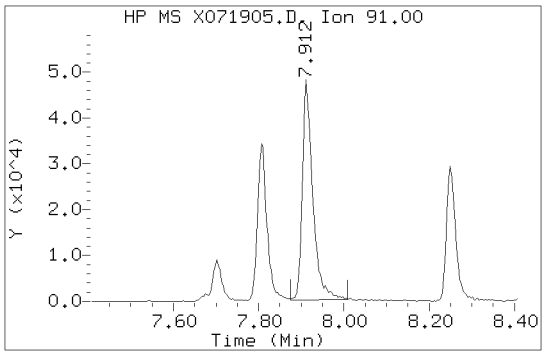
BEFORE

MASS
120
AREA
20601
HEIGHT
14139
25-Jul-2022
09:00
linh
pham



AFTER

MASS
91
AREA
83080
HEIGHT
48028
08-Sep-2022
12:20
linh
pham

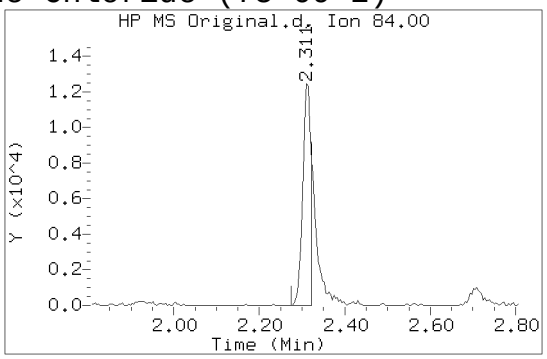


Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071905.D
Inj Date : 19-JUL-2022 12:50
InstruID : voa6.i
LabSampID : VSTD002

Methylene Chloride (75-09-2)

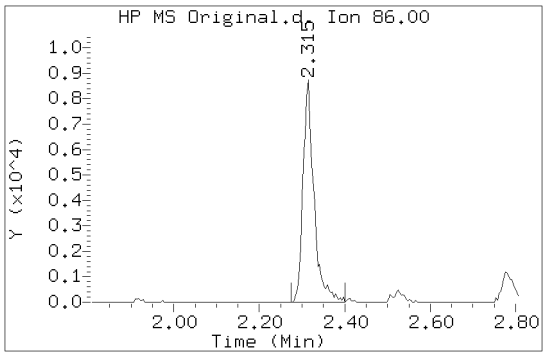
BEFORE

MASS
91
AREA
40205
HEIGHT
22168
25-Jul-2022
09:00
linh
pham



BEFORE

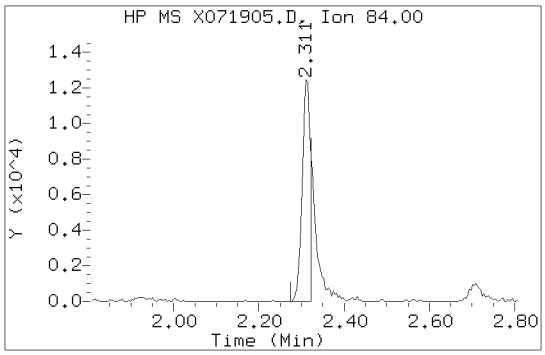
MASS
126
AREA
12421
HEIGHT
7742
25-Jul-2022
09:00
linh
pham



Reason Code:

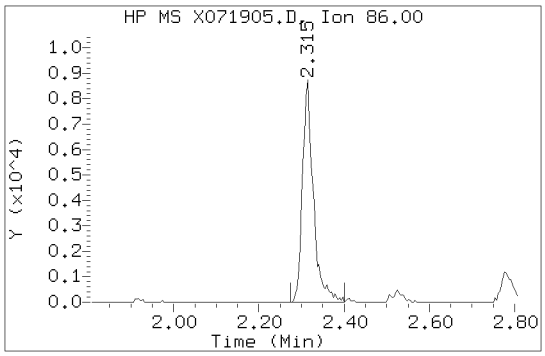
AFTER

MASS
84
AREA
16740
HEIGHT
12461
08-Sep-2022
12:20
linh
pham



AFTER

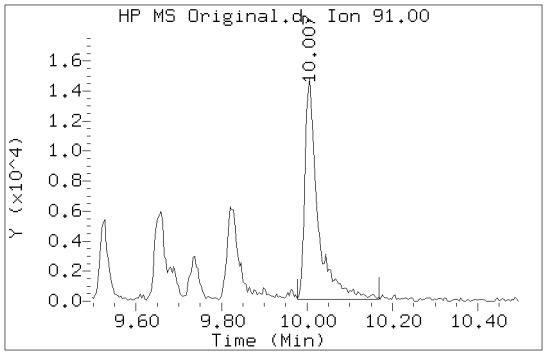
MASS
86
AREA
15829
HEIGHT
8738
08-Sep-2022
12:20
linh
pham



n-Butylbenzene (104-51-8)

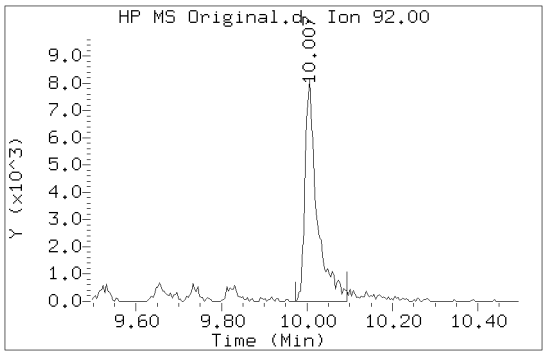
BEFORE

MASS
119
AREA
33676
HEIGHT
24527
25-Jul-2022
09:00
linh
pham



BEFORE

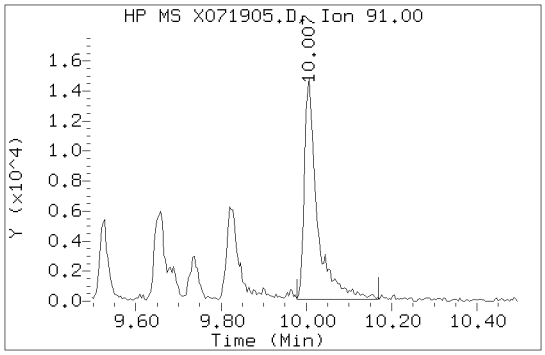
MASS
91
AREA
22780
HEIGHT
15724
25-Jul-2022
09:00
linh
pham



Reason Code:

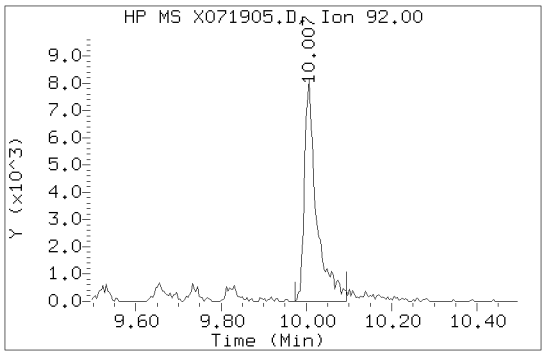
AFTER

MASS
91
AREA
31547
HEIGHT
14685
08-Sep-2022
12:20
linh
pham



AFTER

MASS
92
AREA
16277
HEIGHT
8132
08-Sep-2022
12:20
linh
pham

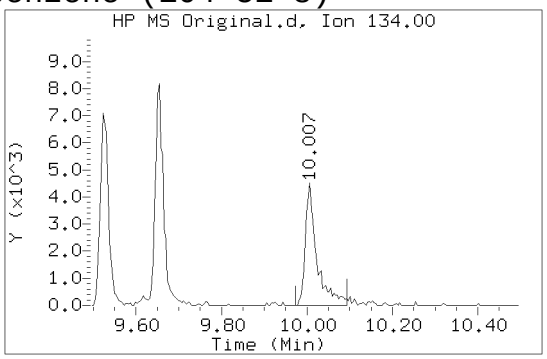


Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071905.D
Inj Date : 19-JUL-2022 12:50
InstruID : voa6.i
LabSampID : VSTD002

n-Butylbenzene (104-51-8)

BEFORE

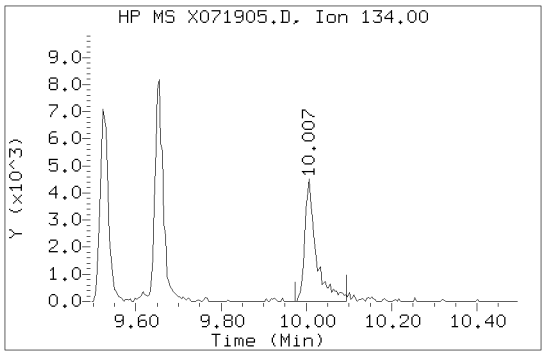
MASS
134
AREA
8589
HEIGHT
6039
25-Jul-2022
09:00
linh
pham



AFTER

MASS
134
AREA
8536
HEIGHT
4525
08-Sep-2022
12:20
linh
pham

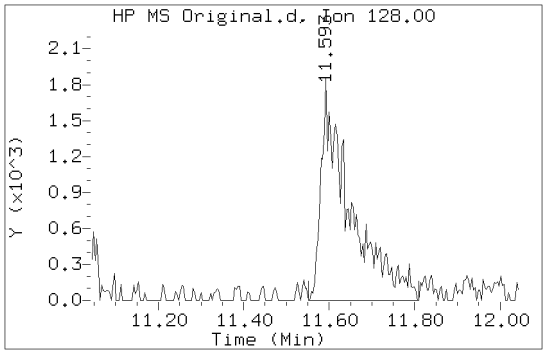
Reason Code:



Naphthalene (91-20-3)

BEFORE

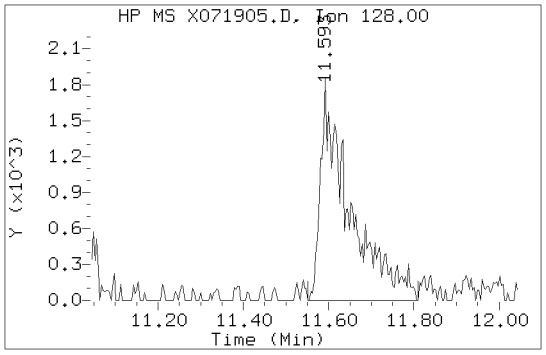
MASS
105
AREA
46135
HEIGHT
33982
25-Jul-2022
09:00
linh
pham



AFTER

MASS
128
AREA
8600
HEIGHT
1850
08-Sep-2022
12:20
linh
pham

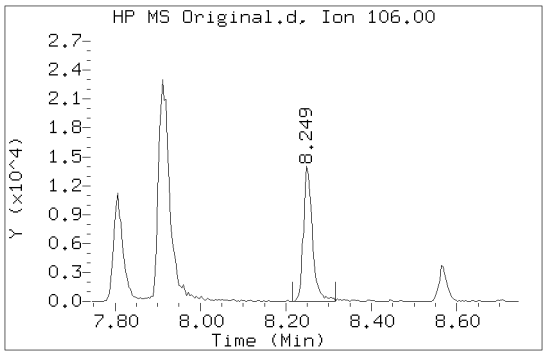
Reason Code:



o-Xylene (95-47-6)

BEFORE

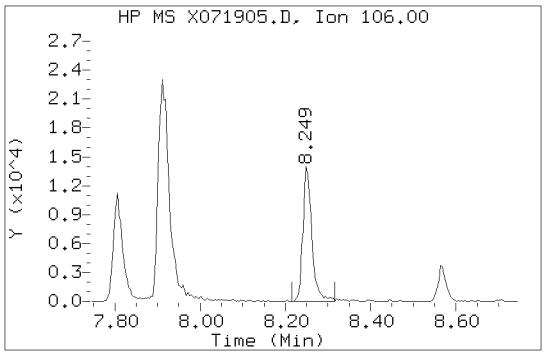
MASS
119
AREA
37293
HEIGHT
26906
25-Jul-2022
09:00
linh
pham



AFTER

MASS
106
AREA
20993
HEIGHT
14051
08-Sep-2022
12:20
linh
pham

Reason Code:



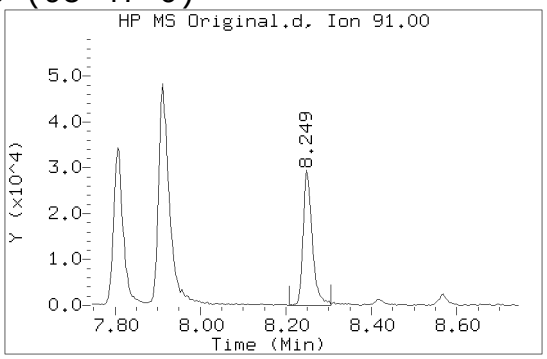
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071905.D
Inj Date : 19-JUL-2022 12:50
InstruID : voa6.i
LabSampID : VSTD002

o-Xylene (95-47-6)

Reason Code:

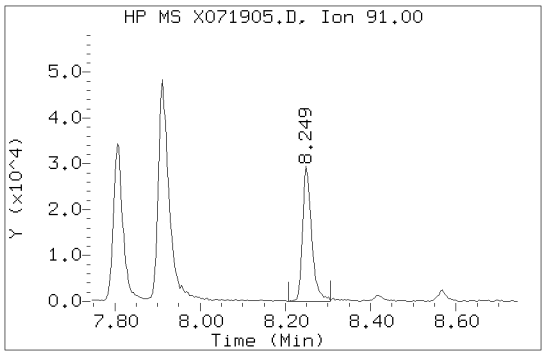
BEFORE

MASS
134
AREA
11044
HEIGHT
8181
25-Jul-2022
09:00
linh
pham



AFTER

MASS
91
AREA
44875
HEIGHT
29536
08-Sep-2022
12:20
linh
pham

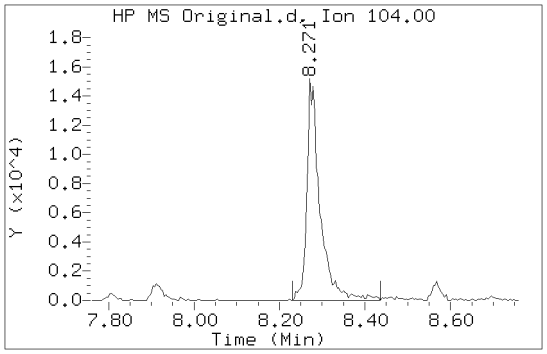


Styrene (100-42-5)

Reason Code:

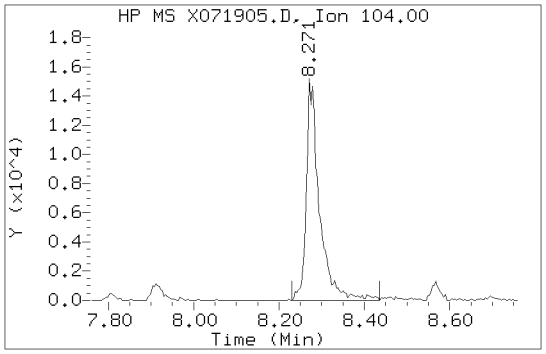
BEFORE

MASS
225
AREA
6994
HEIGHT
5264
25-Jul-2022
09:00
linh
pham



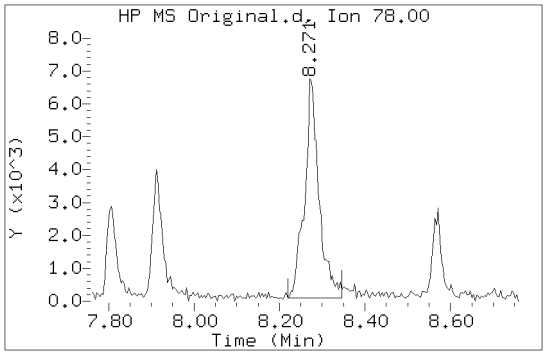
AFTER

MASS
104
AREA
32495
HEIGHT
15189
08-Sep-2022
12:20
linh
pham



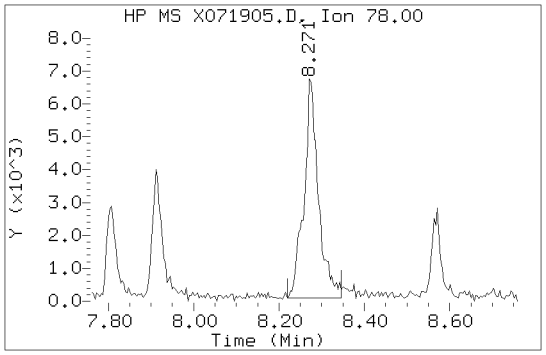
BEFORE

MASS
223
AREA
4036
HEIGHT
2879
25-Jul-2022
09:00
linh
pham



AFTER

MASS
78
AREA
15931
HEIGHT
6670
08-Sep-2022
12:20
linh
pham

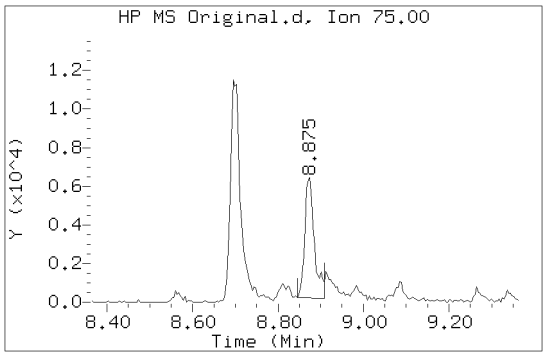


1,2,3-Trichloropropane (96-18-4)

Reason Code:

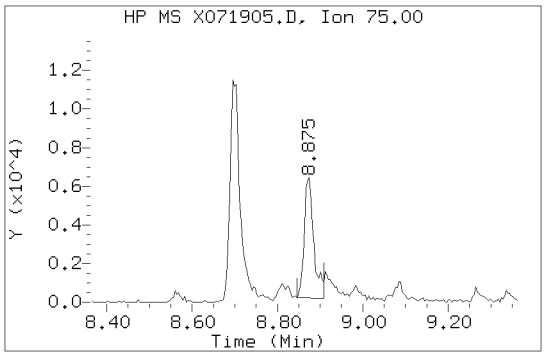
BEFORE

MASS
180
AREA
4350
HEIGHT
1674
25-Jul-2022
09:00
linh
pham



AFTER

MASS
75
AREA
9920
HEIGHT
6237
08-Sep-2022
12:20
linh
pham



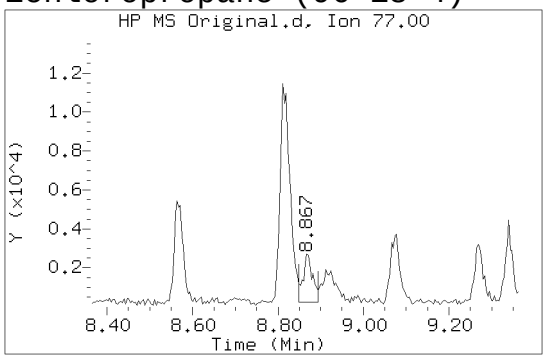
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071905.D
Inj Date : 19-JUL-2022 12:50
InstruID : voa6.i
LabSampID : VSTD002

1,2,3-Trichloropropane (96-18-4)

Reason Code:

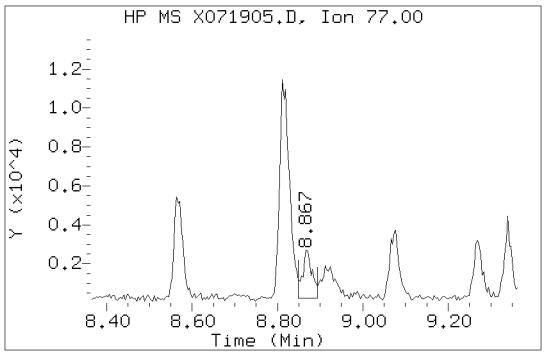
BEFORE

MASS
182
AREA
1686
HEIGHT
2516
25-Jul-2022
09:00
linh
pham



AFTER

MASS
77
AREA
4022
HEIGHT
2476
08-Sep-2022
12:20
linh
pham

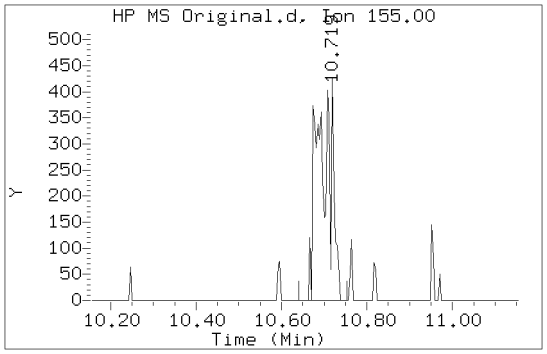


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

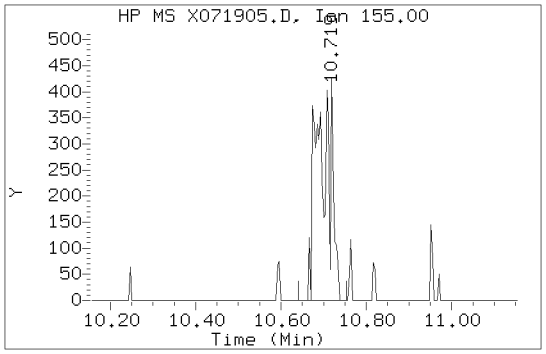
BEFORE

MASS
73
AREA
36818
HEIGHT
16808
25-Jul-2022
09:00
linh
pham



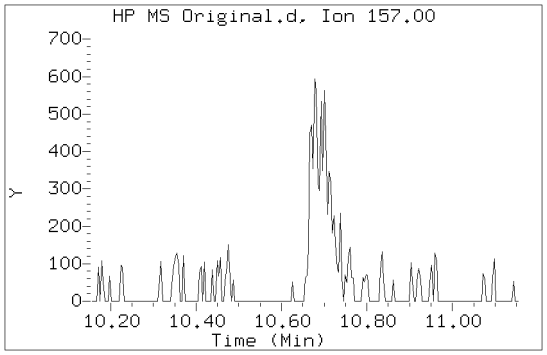
AFTER

MASS
155
AREA
994
HEIGHT
425
08-Sep-2022
12:20
linh
pham



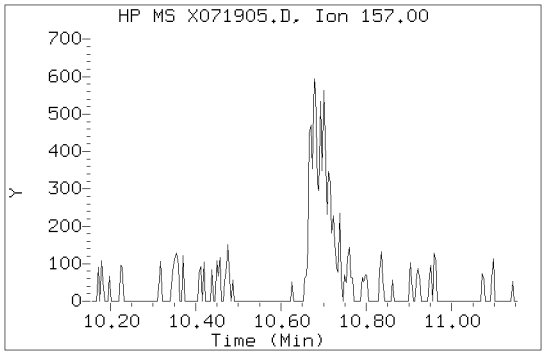
BEFORE

MASS
57
AREA
25396
HEIGHT
9800
25-Jul-2022
09:00
linh
pham



AFTER

MASS
157
AREA
0
HEIGHT
0
08-Sep-2022
12:20
linh
pham

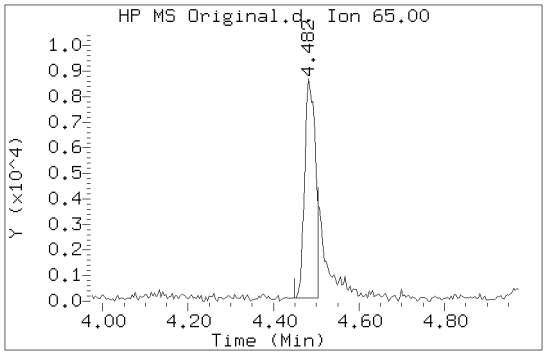


1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

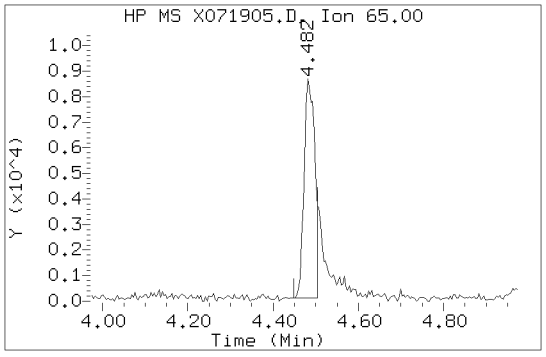
BEFORE

MASS
113
AREA
18364
HEIGHT
8101
25-Jul-2022
09:00
linh
pham



AFTER

MASS
65
AREA
15130
HEIGHT
8575
08-Sep-2022
12:20
linh
pham



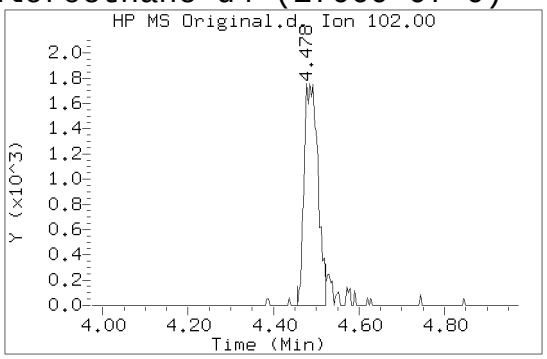
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071905.D
Inj Date : 19-JUL-2022 12:50
InstruID : voa6.i
LabSampID : VSTD002

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

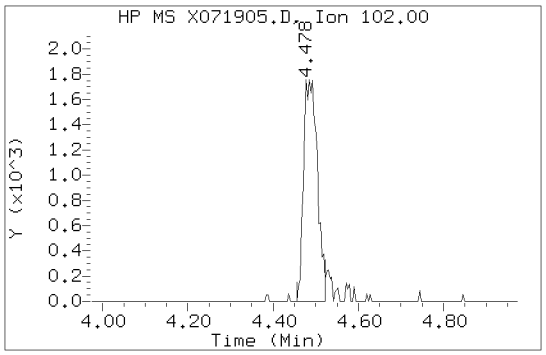
BEFORE

MASS
111
AREA
18785
HEIGHT
8137
25-Jul-2022
09:00
linh
pham



AFTER

MASS
102
AREA
4011
HEIGHT
1757
08-Sep-2022
12:20
linh
pham

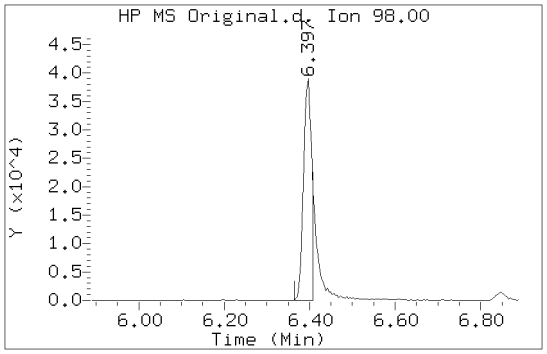


Toluene-d8 (2037-26-5)

Reason Code:

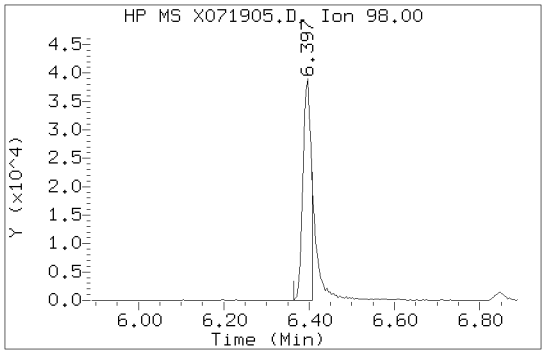
BEFORE

MASS
65
AREA
15130
HEIGHT
8575
25-Jul-2022
09:00
linh
pham



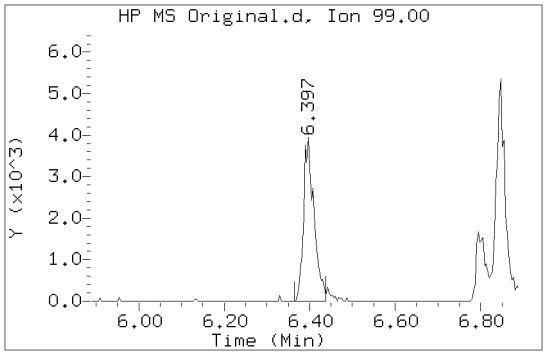
AFTER

MASS
98
AREA
53011
HEIGHT
39000
08-Sep-2022
12:20
linh
pham



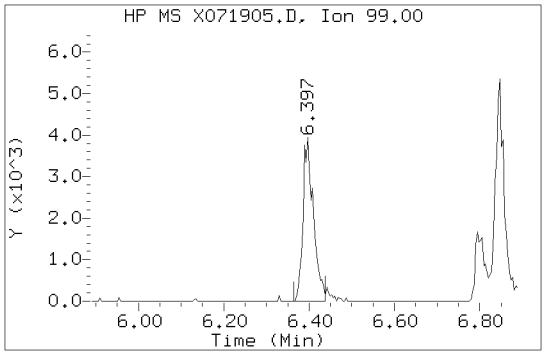
BEFORE

MASS
102
AREA
4011
HEIGHT
1757
25-Jul-2022
09:00
linh
pham



AFTER

MASS
99
AREA
6827
HEIGHT
3949
08-Sep-2022
12:20
linh
pham

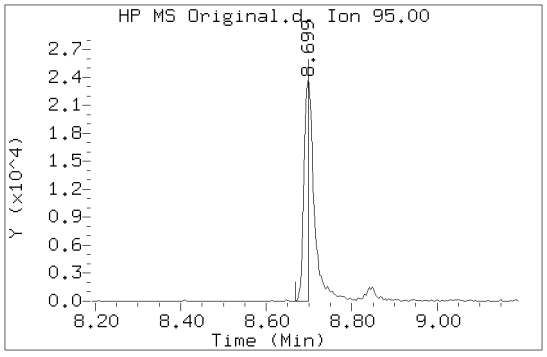


4-Bromofluorobenzene (460-00-4)

Reason Code:

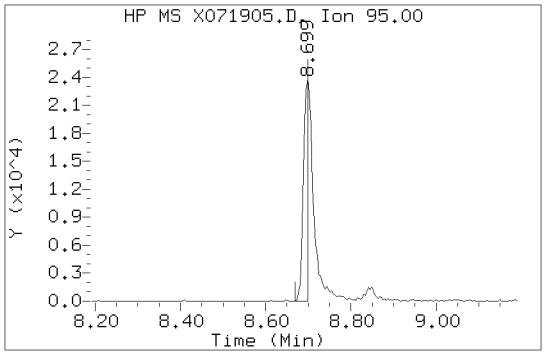
BEFORE

MASS
95
AREA
19061
HEIGHT
23832
25-Jul-2022
09:00
linh
pham



AFTER

MASS
95
AREA
19061
HEIGHT
23832
08-Sep-2022
12:20
linh
pham



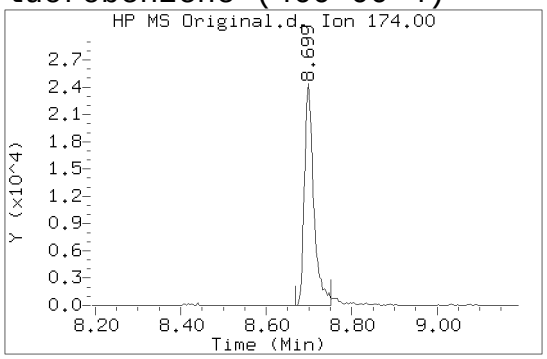
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071905.D
Inj Date : 19-JUL-2022 12:50
InstruID : voa6.i
LabSampID : VSTD002

4-Bromofluorobenzene (460-00-4)

Reason Code:

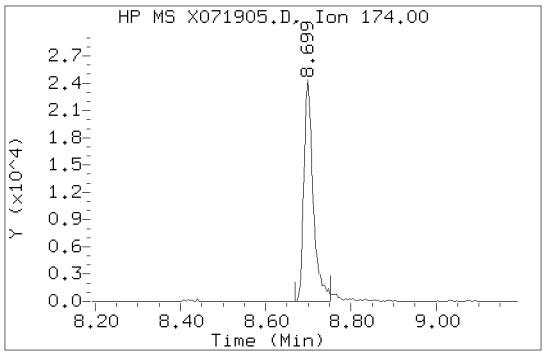
BEFORE

MASS
174
AREA
37206
HEIGHT
24384
25-Jul-2022
09:00
linh
pham



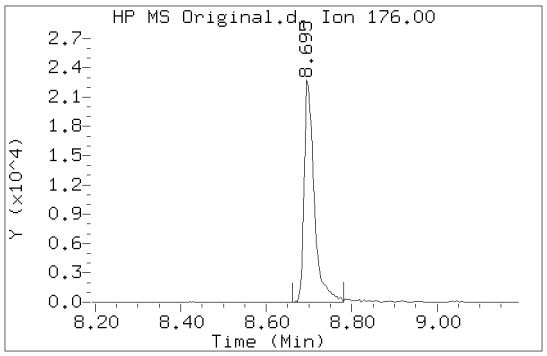
AFTER

MASS
174
AREA
37206
HEIGHT
24384
08-Sep-2022
12:20
linh
pham



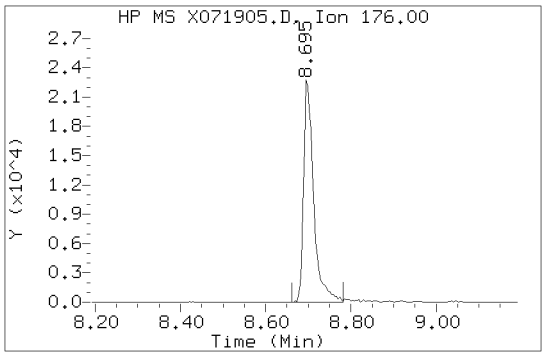
BEFORE

MASS
176
AREA
37461
HEIGHT
22760
25-Jul-2022
09:00
linh
pham



AFTER

MASS
176
AREA
37461
HEIGHT
22760
08-Sep-2022
12:20
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071906.D Page 1
Report Date: 08-Sep-2022 12:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071906.D
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 19-JUL-2022 13:11
Operator : PC Inst ID: voa6.i
Smp Info : VSTD005;VSTD005;1;5;
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\8260W.m
Meth Date : 08-Sep-2022 12:21 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 12:50 Cal File: X071905.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.189	4.189	(1.000)	701809	50.0000	
* 36 1,4-Difluorobenzene	114	4.968	4.968	(1.000)	1041373	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	950052	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.665	9.665	(1.000)	449830	50.0000	
$ 30 Dibromofluoromethane	113	4.106	4.106	(0.980)	40606	5.00000	5.49
$ 35 1,2-Dichloroethane-d4	65	4.477	4.477	(1.069)	40441	5.00000	5.28(M)
$ 48 Toluene-d8	98	6.393	6.393	(0.833)	110927	5.00000	4.67(aM)
$ 69 4-Bromofluorobenzene	95	8.695	8.695	(1.133)	56818	5.00000	5.98
60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	34241	5.00000	5.12
31 1,1,1-Trichloroethane	97	4.091	4.091	(0.977)	54582	5.00000	5.48
68 1,1,2,2-Tetrachloroethane	83	8.844	8.844	(0.915)	31785	5.00000	5.03
53 1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	25929	5.00000	5.30
22 1,1-Dichloroethane	63	2.929	2.929	(0.699)	57114	5.00000	5.28
11 1,1-Dichloroethene	96	1.921	1.921	(0.459)	31142	5.00000	5.31
32 1,1-Dichloropropene	75	4.286	4.286	(0.863)	43023	5.00000	5.11
93 1,2,3-Trichlorobenzene	180	11.757	11.757	(1.216)	10995	5.00000	4.70(aM)
71 1,2,3-Trichloropropane	75	8.867	8.867	(0.917)	24185	5.00000	4.96(aM)
90 1,2,4-Trichlorobenzene	180	11.352	11.352	(1.175)	19881	5.00000	4.85(aM)
79 1,2,4-Trimethylbenzene	105	9.384	9.384	(0.971)	113753	5.00000	5.27
89 1,2-Dibromo-3-Chloropropane	155	10.670	10.670	(1.104)	2347	5.00000	5.47

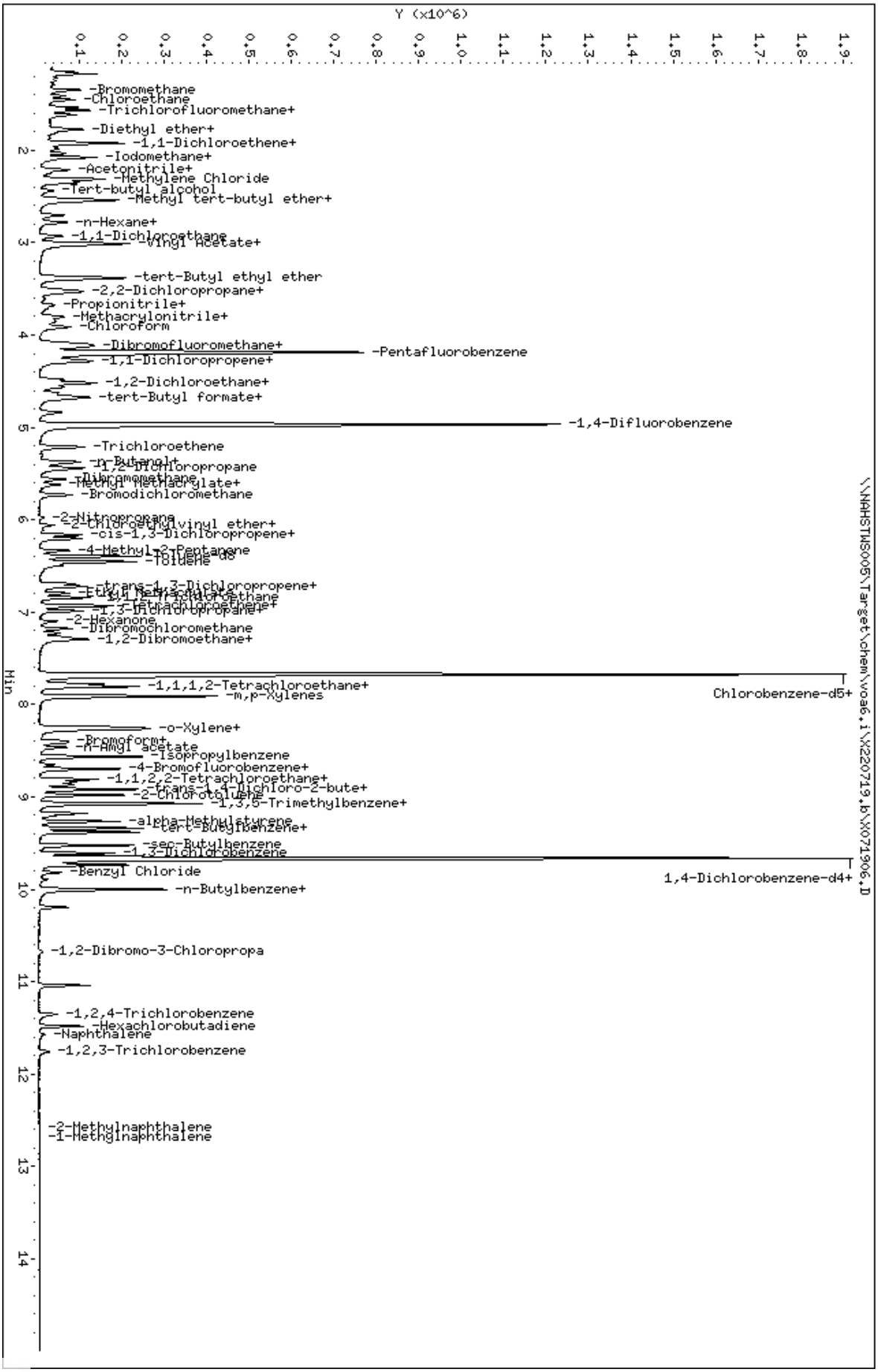
57	1,2-Dibromoethane	107	7.266	7.266 (0.947)	32305	5.00000	5.21
88	1,2-Dichlorobenzene	146	10.003	10.003 (1.035)	59846	5.00000	5.31

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071906.D Page 2
Report Date: 08-Sep-2022 12:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
33	1,2-Dichloroethane	62	4.567	4.567	(0.919)	49225	5.00000	5.38
42	1,2-Dichloropropane	63	5.441	5.441	(1.095)	33483	5.00000	5.22
75	1,3,5-Trimethylbenzene	105	9.069	9.069	(0.938)	116506	5.00000	5.33
83	1,3-Dichlorobenzene	146	9.609	9.609	(0.994)	66139	5.00000	5.29
54	1,3-Dichloropropane	76	6.985	6.985	(0.911)	52966	5.00000	5.33
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	66130	5.00000	4.99(a)
26	2,2-Dichloropropane	77	3.518	3.518	(0.840)	53750	5.00000	5.38
24	2-Butanone	43	3.604	3.604	(0.860)	16349	10.0000	9.28(M)
76	2-Chlorotoluene	91	8.979	8.979	(0.929)	103950	5.00000	5.39
52	2-Hexanone	43	7.098	7.098	(0.925)	28998	10.0000	9.70
77	4-Chlorotoluene	91	9.077	9.077	(0.939)	111787	5.00000	5.19
82	p-Isopropyltoluene	119	9.654	9.654	(0.999)	113315	5.00000	5.16
45	4-Methyl-2-Pentanone	43	6.333	6.333	(0.826)	47780	10.0000	10.32
10	Acetone	43	1.984	1.984	(0.474)	20021	10.0000	8.35(M)
37	Benzene	78	4.519	4.519	(0.909)	129783	5.00000	5.25
74	Bromobenzene	156	8.811	8.811	(0.912)	41026	5.00000	5.34
29	Bromochloromethane	128	3.799	3.799	(0.907)	20367	5.00000	5.14
39	Bromodichloromethane	83	5.729	5.729	(1.153)	45668	5.00000	5.19
66	Bromoform	173	8.417	8.417	(1.097)	20344	5.00000	5.54
6	Bromomethane	94	1.347	1.347	(0.322)	30861	5.00000	5.24(M)
19	Carbon Disulfide	76	2.078	2.078	(0.496)	165186	10.0000	10.65
34	Carbon Tetrachloride	117	4.271	4.271	(0.860)	46328	5.00000	5.15(H)
59	Chlorobenzene	112	7.697	7.697	(1.003)	95602	5.00000	5.30
7	Chloroethane	64	1.411	1.411	(0.337)	25153	5.00000	5.58
28	Chloroform	83	3.915	3.915	(0.935)	63536	5.00000	5.36
3	Chloromethane	50	1.085	1.085	(0.259)	37005	5.00000	5.74
27	cis-1,2-Dichloroethene	96	3.536	3.536	(0.844)	36563	5.00000	5.24
46	cis-1,3-Dichloropropene	75	6.164	6.164	(1.241)	54926	5.00000	5.08
55	Dibromochloromethane	129	7.180	7.180	(0.936)	33754	5.00000	4.78(a)
44	Dibromomethane	93	5.557	5.557	(1.118)	22085	5.00000	5.13
2	Dichlorodifluoromethane	85	0.980	0.980	(0.234)	38222	5.00000	5.56
61	Ethylbenzene	106	7.806	7.806	(1.018)	49041	5.00000	5.38
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	18025	5.00000	4.76(a)
67	Isopropylbenzene	105	8.563	8.563	(1.116)	146541	5.00000	5.35
62	m,p-Xylenes	106	7.911	7.911	(1.031)	120491	10.0000	10.64
17	Methylene Chloride	84	2.311	2.311	(0.552)	40888	5.00000	5.57(M)
87	n-Butylbenzene	91	9.999	9.999	(1.035)	89804	5.00000	4.92(a)
73	n-Propylbenzene	91	8.916	8.916	(0.922)	160743	5.00000	5.41
92	Naphthalene	128	11.570	11.570	(1.197)	21849	5.00000	4.76(aM)
63	o-Xylene	106	8.248	8.248	(1.075)	57923	5.00000	5.26
81	sec-Butylbenzene	105	9.523	9.523	(0.985)	133745	5.00000	5.27
64	Styrene	104	8.271	8.271	(1.078)	92709	5.00000	5.11
78	tert-Butylbenzene	119	9.339	9.339	(0.966)	102197	5.00000	5.51
56	Tetrachloroethene	164	6.929	6.929	(0.903)	33865	5.00000	5.49
50	Toluene	91	6.453	6.453	(0.841)	142561	5.00000	5.33
20	trans-1,2-Dichloroethene	96	2.539	2.539	(0.606)	33550	5.00000	5.43
51	trans-1,3-Dichloropropene	75	6.689	6.689	(1.346)	42573	5.00000	4.75(a)
38	Trichloroethene	130	5.216	5.216	(1.050)	38945	5.00000	5.32
8	Trichlorofluoromethane	101	1.568	1.568	(0.375)	59958	5.00000	5.42
5	Vinyl Chloride	62	1.149	1.149	(0.274)	39892	5.00000	5.42

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071906.D
Date : 19-JUL-2022 13:11
Client ID: VSTD005
Sample Info: VSTD005;VSTD005;1;5;
Purge Volume: 5.0
Column phase: DB624

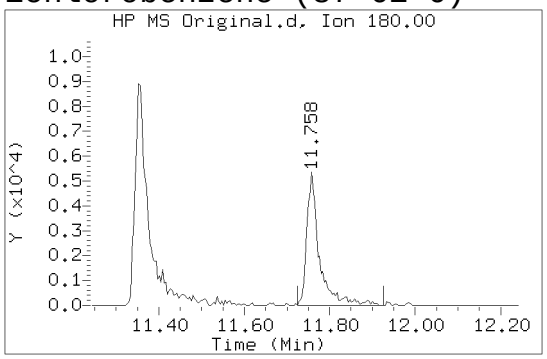
Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071906.D
Inj Date : 19-JUL-2022 13:11
InstruID : voa6.i
LabSampID : VSTD005

1,2,3-Trichlorobenzene (87-61-6)

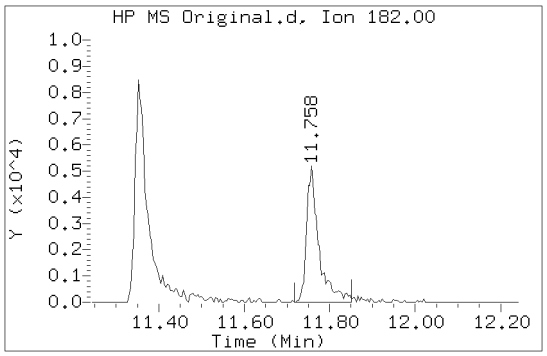
BEFORE

MASS
77
AREA
53750
HEIGHT
21214
25-Jul-2022
09:00
linh
pham



BEFORE

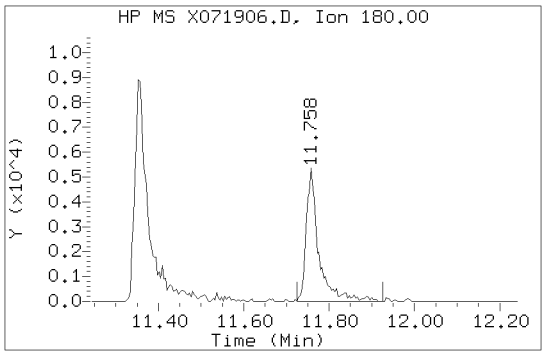
MASS
97
AREA
12044
HEIGHT
4815
25-Jul-2022
09:00
linh
pham



Reason Code:

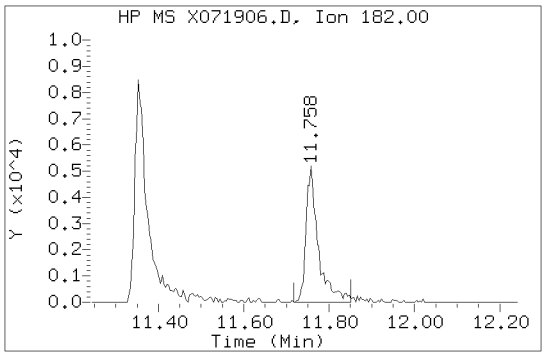
AFTER

MASS
180
AREA
10995
HEIGHT
5351
08-Sep-2022
12:20
linh
pham



AFTER

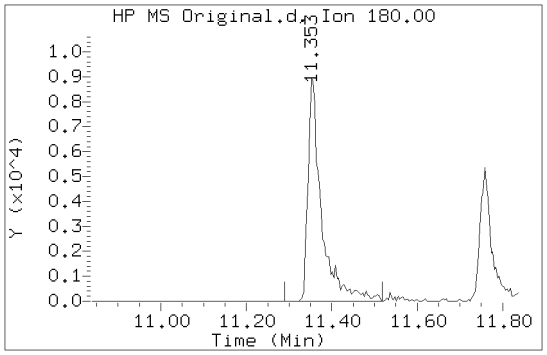
MASS
182
AREA
10507
HEIGHT
5207
08-Sep-2022
12:20
linh
pham



1,2,4-Trichlorobenzene (120-82-1)

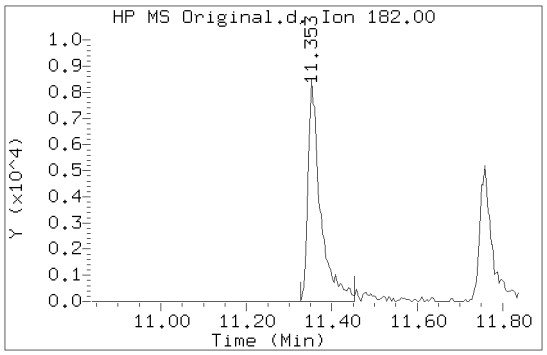
BEFORE

MASS
93
AREA
22085
HEIGHT
11803
25-Jul-2022
09:00
linh
pham



BEFORE

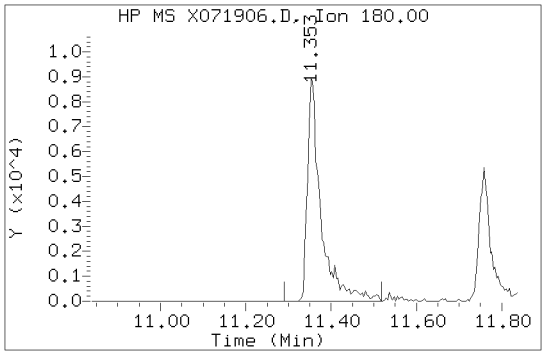
MASS
95
AREA
18493
HEIGHT
9552
25-Jul-2022
09:00
linh
pham



Reason Code:

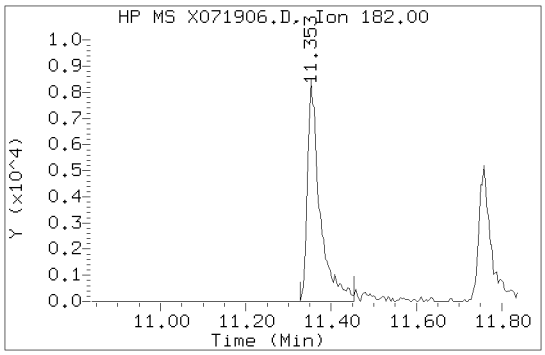
AFTER

MASS
180
AREA
19881
HEIGHT
8916
08-Sep-2022
12:20
linh
pham



AFTER

MASS
182
AREA
17243
HEIGHT
8485
08-Sep-2022
12:20
linh
pham



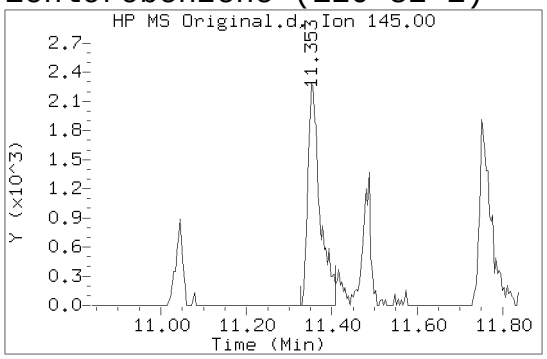
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071906.D
Inj Date : 19-JUL-2022 13:11
InstruID : voa6.i
LabSampID : VSTD005

1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

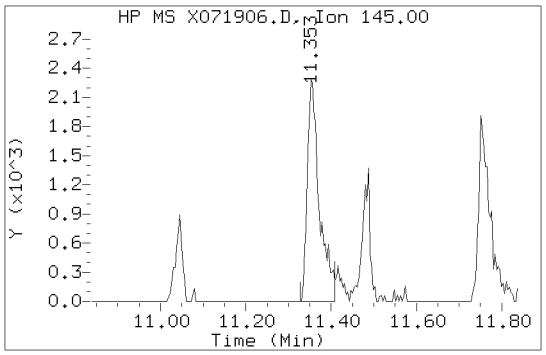
BEFORE

MASS
174
AREA
26074
HEIGHT
14180
25-Jul-2022
09:00
linh
pham



AFTER

MASS
145
AREA
4517
HEIGHT
2282
08-Sep-2022
12:20
linh
pham

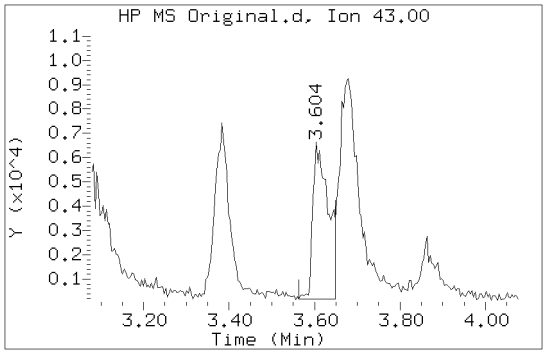


2-Butanone (78-93-3)

Reason Code:

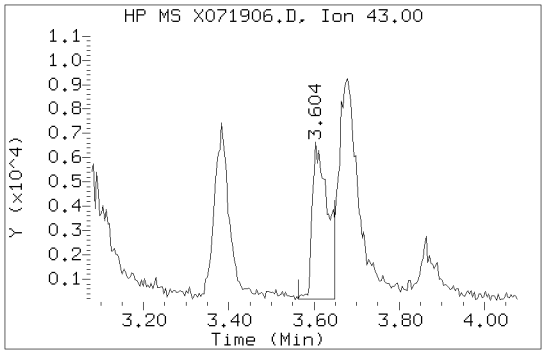
BEFORE

MASS
83
AREA
31785
HEIGHT
21915
25-Jul-2022
09:00
linh
pham



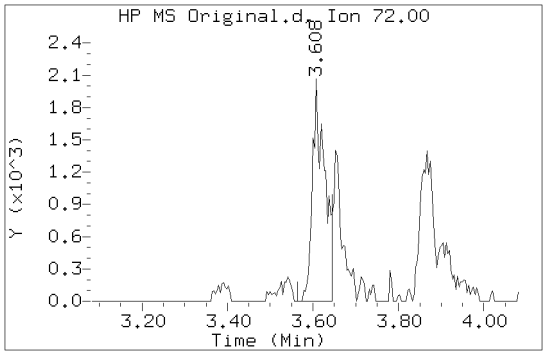
AFTER

MASS
43
AREA
16349
HEIGHT
6447
08-Sep-2022
12:20
linh
pham



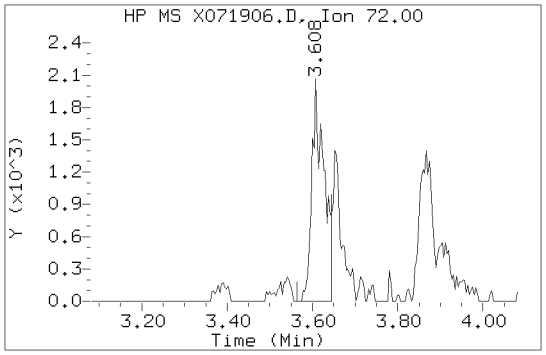
BEFORE

MASS
131
AREA
3365
HEIGHT
2107
25-Jul-2022
09:00
linh
pham



AFTER

MASS
72
AREA
4154
HEIGHT
2067
08-Sep-2022
12:20
linh
pham

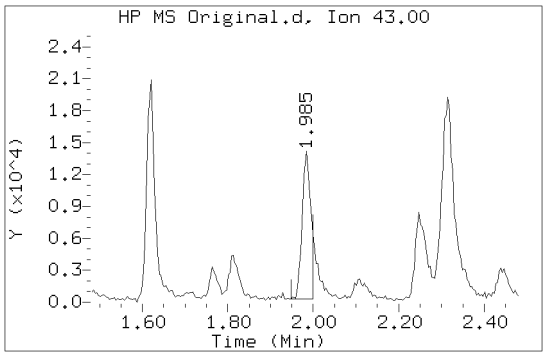


Acetone (67-64-1)

Reason Code:

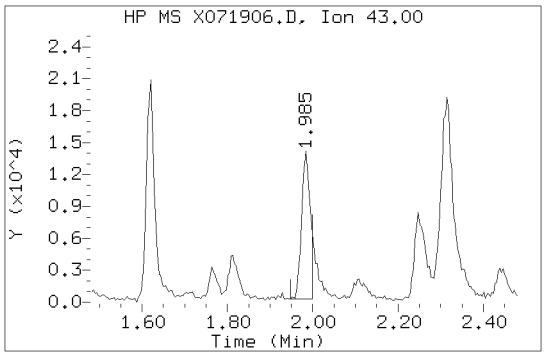
BEFORE

MASS
62
AREA
39892
HEIGHT
32857
25-Jul-2022
09:00
linh
pham



AFTER

MASS
43
AREA
20021
HEIGHT
13907
08-Sep-2022
12:20
linh
pham



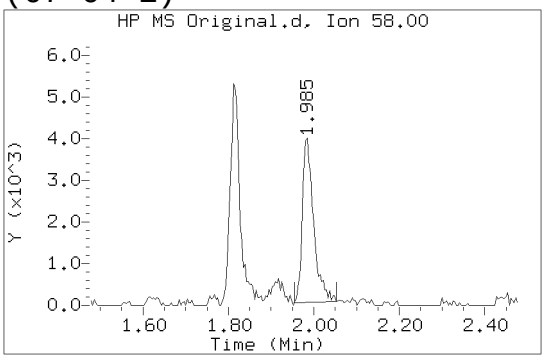
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071906.D
Inj Date : 19-JUL-2022 13:11
InstruID : voa6.i
LabSampID : VSTD005

Acetone (67-64-1)

Reason Code:

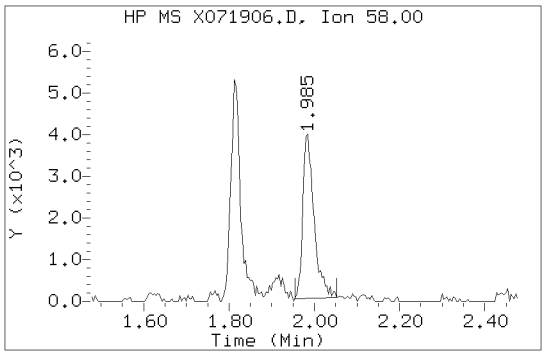
BEFORE

MASS
64
AREA
14366
HEIGHT
11106
25-Jul-2022
09:00
linh
pham



AFTER

MASS
58
AREA
7398
HEIGHT
3945
08-Sep-2022
12:20
linh
pham

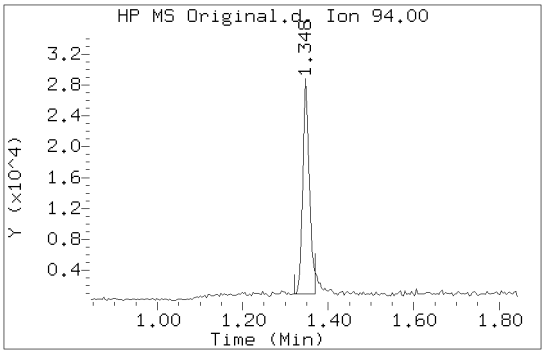


Bromomethane (74-83-9)

Reason Code:

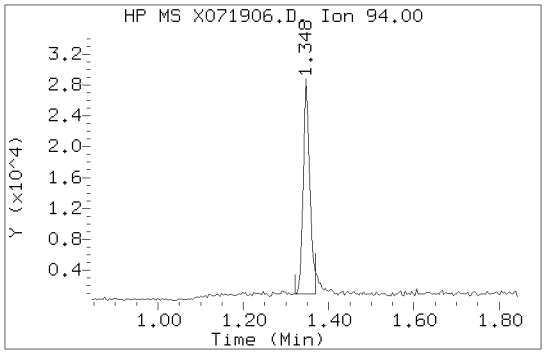
BEFORE

MASS
83
AREA
63536
HEIGHT
25192
25-Jul-2022
09:00
linh
pham



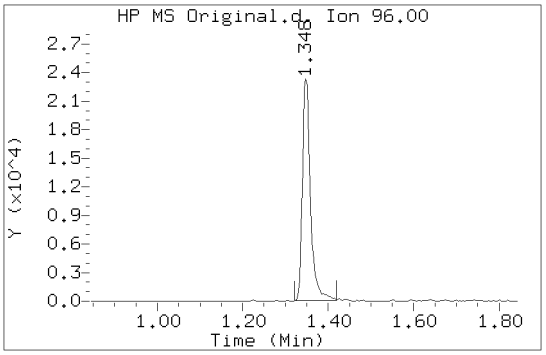
AFTER

MASS
94
AREA
30861
HEIGHT
27868
08-Sep-2022
12:20
linh
pham



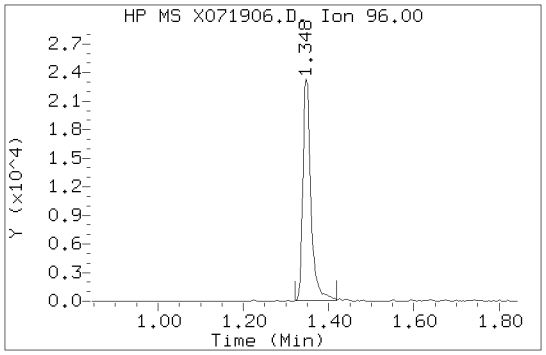
BEFORE

MASS
85
AREA
39697
HEIGHT
16538
25-Jul-2022
09:00
linh
pham



AFTER

MASS
96
AREA
31710
HEIGHT
23276
08-Sep-2022
12:20
linh
pham

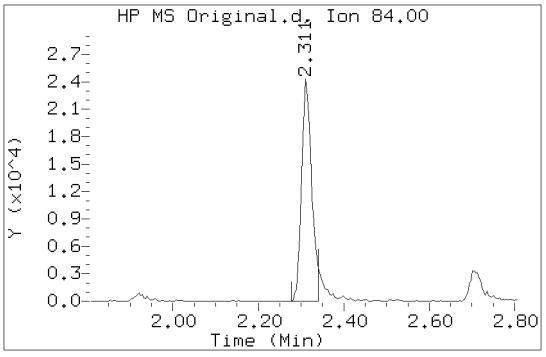


Methylene Chloride (75-09-2)

Reason Code:

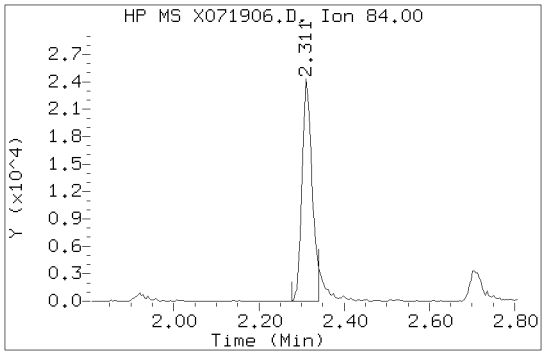
BEFORE

MASS
91
AREA
111787
HEIGHT
72323
25-Jul-2022
09:00
linh
pham



AFTER

MASS
84
AREA
40888
HEIGHT
24320
08-Sep-2022
12:20
linh
pham



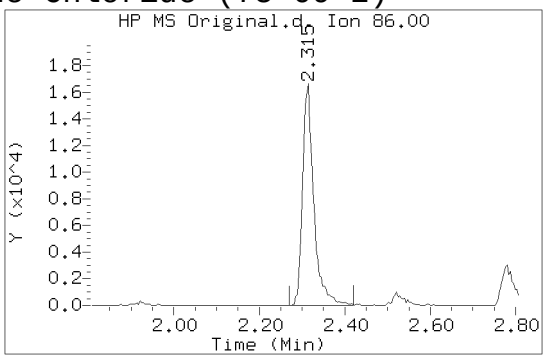
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071906.D
Inj Date : 19-JUL-2022 13:11
InstruID : voa6.i
LabSampID : VSTD005

Methylene Chloride (75-09-2)

Reason Code:

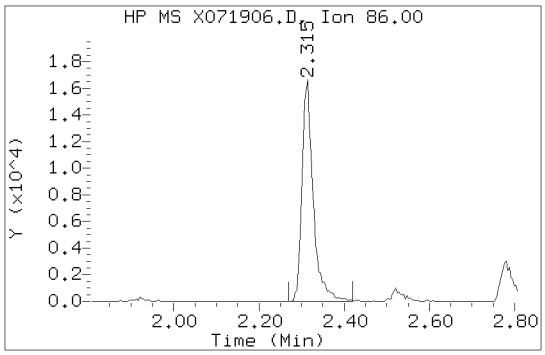
BEFORE

MASS
126
AREA
36519
HEIGHT
23180
25-Jul-2022
09:00
linh
pham



AFTER

MASS
86
AREA
31050
HEIGHT
16648
08-Sep-2022
12:20
linh
pham

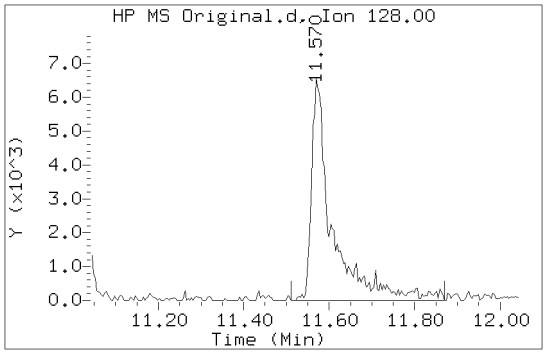


Naphthalene (91-20-3)

Reason Code:

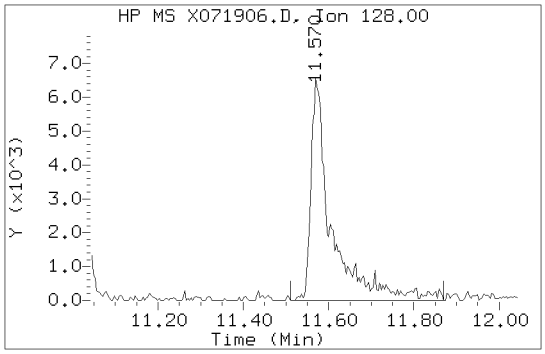
BEFORE

MASS
105
AREA
133745
HEIGHT
99939
25-Jul-2022
09:00
linh
pham



AFTER

MASS
128
AREA
21849
HEIGHT
6546
08-Sep-2022
12:20
linh
pham

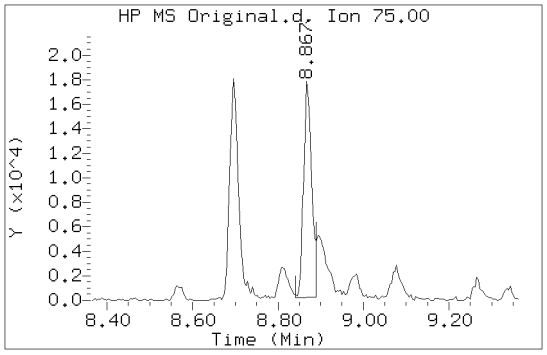


1,2,3-Trichloropropane (96-18-4)

Reason Code:

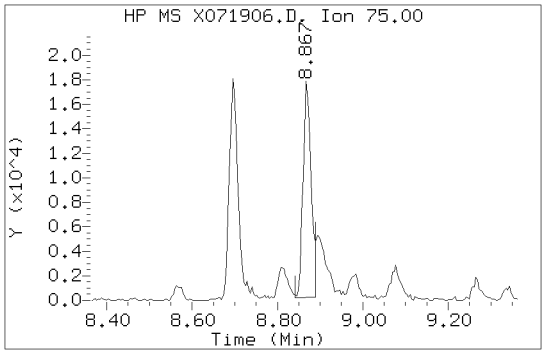
BEFORE

MASS
180
AREA
10995
HEIGHT
5351
25-Jul-2022
09:00
linh
pham



AFTER

MASS
75
AREA
24185
HEIGHT
17647
08-Sep-2022
12:20
linh
pham



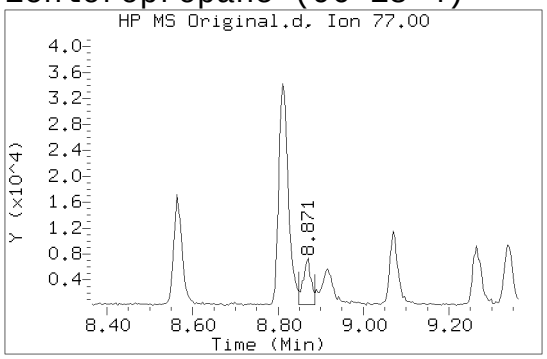
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071906.D
Inj Date : 19-JUL-2022 13:11
InstruID : voa6.i
LabSampID : VSTD005

1,2,3-Trichloropropane (96-18-4)

Reason Code:

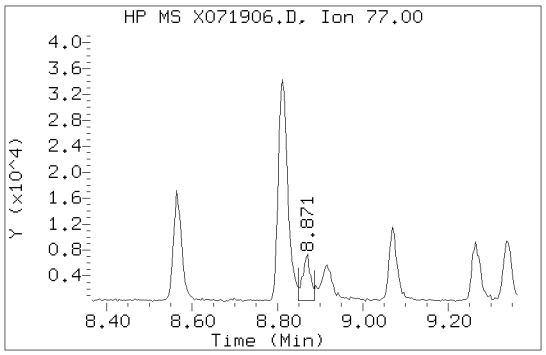
BEFORE

MASS
182
AREA
10507
HEIGHT
5207
25-Jul-2022
09:00
linh
pham



AFTER

MASS
77
AREA
9709
HEIGHT
7172
08-Sep-2022
12:20
linh
pham

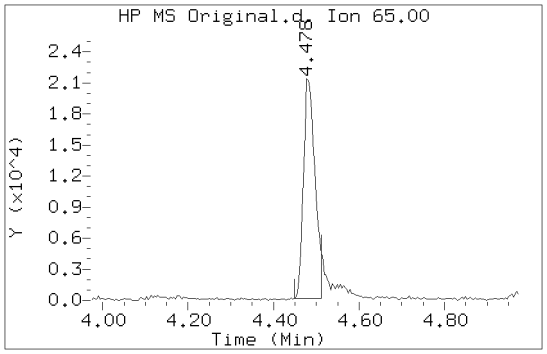


1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

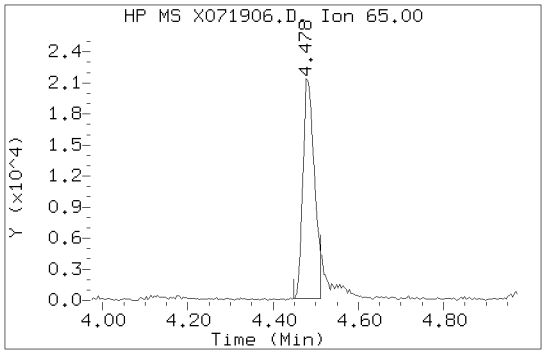
BEFORE

MASS
113
AREA
40606
HEIGHT
18160
25-Jul-2022
09:00
linh
pham



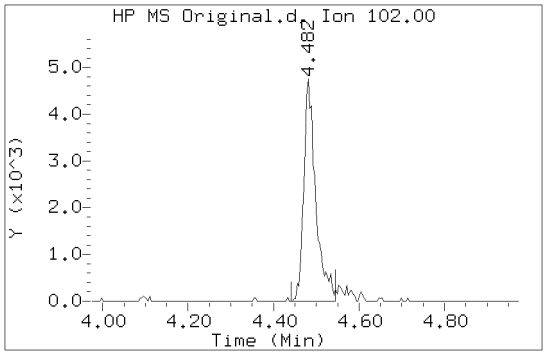
AFTER

MASS
65
AREA
40441
HEIGHT
21216
08-Sep-2022
12:20
linh
pham



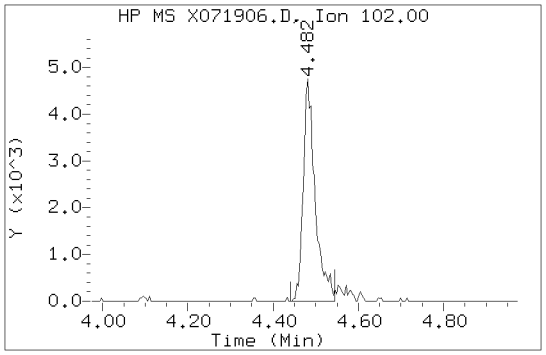
BEFORE

MASS
111
AREA
43698
HEIGHT
16952
25-Jul-2022
09:00
linh
pham



AFTER

MASS
102
AREA
9413
HEIGHT
4753
08-Sep-2022
12:20
linh
pham

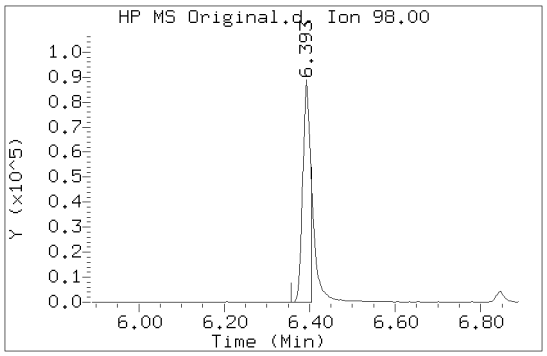


Toluene-d8 (2037-26-5)

Reason Code:

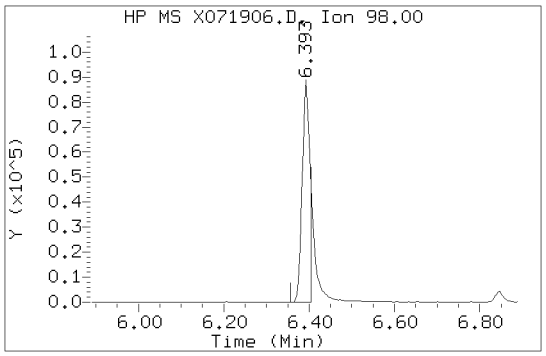
BEFORE

MASS
65
AREA
40441
HEIGHT
21216
25-Jul-2022
09:00
linh
pham



AFTER

MASS
98
AREA
110927
HEIGHT
88856
08-Sep-2022
12:20
linh
pham



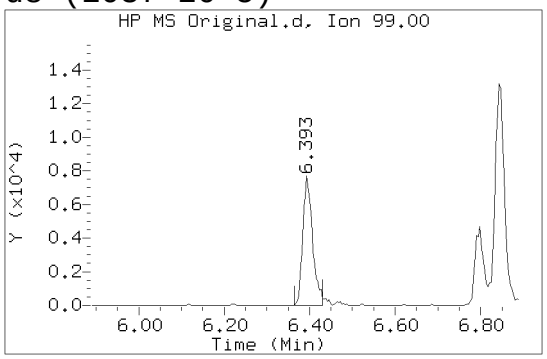
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071906.D
Inj Date : 19-JUL-2022 13:11
InstruID : voa6.i
LabSampID : VSTD005

Toluene-d8 (2037-26-5)

Reason Code:

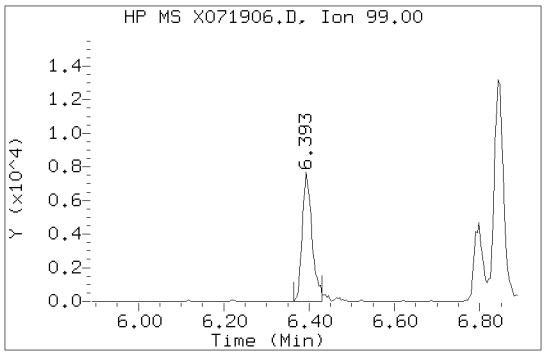
BEFORE

MASS
102
AREA
9413
HEIGHT
4753
25-Jul-2022
09:00
linh
pham



AFTER

MASS
99
AREA
12492
HEIGHT
7694
08-Sep-2022
12:20
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071907.D Page 1
Report Date: 08-Sep-2022 12:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071907.D
Lab Smp Id: VSTD020 Client Smp ID: VSTD020
Inj Date : 19-JUL-2022 13:32
Operator : PC Inst ID: voa6.i
Smp Info : VSTD020;VSTD020;1;6;
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\8260W.m
Meth Date : 08-Sep-2022 12:21 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:11 Cal File: X071906.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.185	4.185	(1.000)	739593	50.0000	
* 36 1,4-Difluorobenzene	114	4.969	4.969	(1.000)	1081697	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	997162	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.666	9.666	(1.000)	485715	50.0000	
$ 30 Dibromofluoromethane	113	4.103	4.103	(0.980)	142500	20.0000	19.98
$ 35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.069)	154444	20.0000	20.00
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	500293	20.0000	20.10
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	180100	20.0000	19.74
60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	141960	20.0000	20.26
31 1,1,1-Trichloroethane	97	4.084	4.084	(0.976)	214055	20.0000	20.40
68 1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	134536	20.0000	19.72
53 1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	101856	20.0000	19.86
22 1,1-Dichloroethane	63	2.929	2.929	(0.700)	227348	20.0000	19.96
11 1,1-Dichloroethene	96	1.921	1.921	(0.459)	125514	20.0000	20.33
32 1,1-Dichloropropene	75	4.286	4.286	(0.863)	176949	20.0000	20.26
93 1,2,3-Trichlorobenzene	180	11.746	11.746	(1.215)	47433	20.0000	18.78
71 1,2,3-Trichloropropane	75	8.867	8.867	(0.917)	102755	20.0000	19.53(M)
90 1,2,4-Trichlorobenzene	180	11.341	11.341	(1.173)	87805	20.0000	19.84
79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	483222	20.0000	20.74
89 1,2-Dibromo-3-Chloropropane	155	10.663	10.663	(1.103)	9850	20.0000	19.90

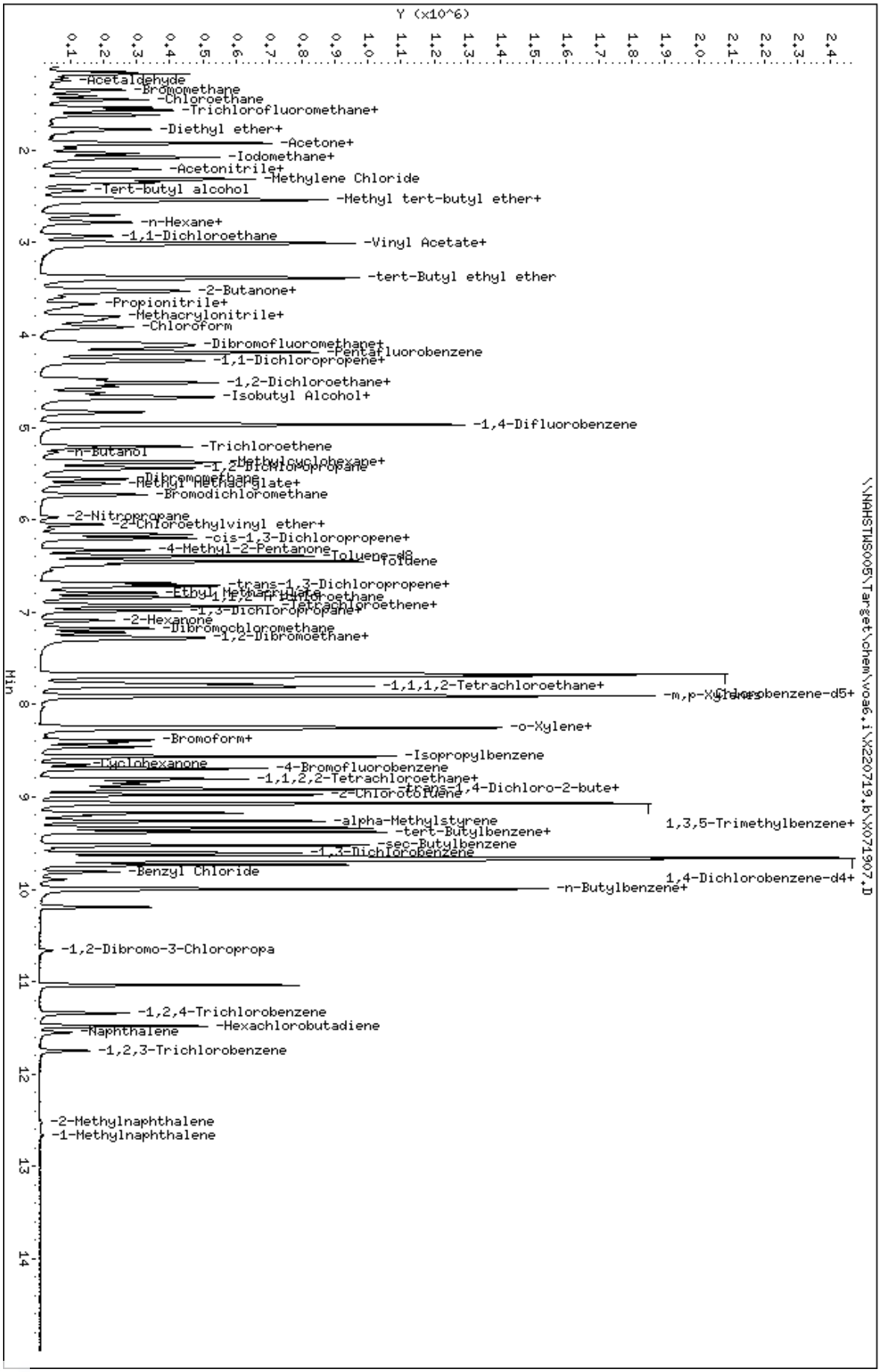
57	1,2-Dibromoethane	107	7.263	7.263 (0.947)	131728	20.0000	20.26
88	1,2-Dichlorobenzene	146	9.995	9.995 (1.034)	246991	20.0000	20.32

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071907.D Page 2
Report Date: 08-Sep-2022 12:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
33	1,2-Dichloroethane	62	4.560	4.560	(0.918)	196212	20.0000	20.68
42	1,2-Dichloropropane	63	5.441	5.441	(1.095)	132233	20.0000	19.86
75	1,3,5-Trimethylbenzene	105	9.070	9.070	(0.938)	493153	20.0000	20.90
83	1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	276344	20.0000	20.50
54	1,3-Dichloropropane	76	6.985	6.985	(0.911)	210322	20.0000	20.16
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	290428	20.0000	20.29
26	2,2-Dichloropropane	77	3.518	3.518	(0.841)	205808	20.0000	20.20
24	2-Butanone	43	3.589	3.589	(0.858)	70958	40.0000	38.24
76	2-Chlorotoluene	91	8.976	8.976	(0.929)	415686	20.0000	19.96
52	2-Hexanone	43	7.090	7.090	(0.924)	128291	40.0000	40.91
77	4-Chlorotoluene	91	9.073	9.073	(0.939)	475945	20.0000	20.48
82	p-Isopropyltoluene	119	9.651	9.651	(0.998)	506622	20.0000	21.38
45	4-Methyl-2-Pentanone	43	6.329	6.329	(0.825)	195937	40.0000	40.32
10	Acetone	43	1.981	1.981	(0.473)	78540	40.0000	47.44
37	Benzene	78	4.519	4.519	(0.909)	513182	20.0000	20.02
74	Bromobenzene	156	8.807	8.807	(0.911)	169138	20.0000	20.39
29	Bromochloromethane	128	3.799	3.799	(0.908)	81206	20.0000	19.47
39	Bromodichloromethane	83	5.730	5.730	(1.153)	185723	20.0000	20.33
66	Bromoform	173	8.414	8.414	(1.097)	88254	20.0000	19.03
6	Bromomethane	94	1.347	1.347	(0.322)	109055	20.0000	20.80
19	Carbon Disulfide	76	2.078	2.078	(0.497)	658312	40.0000	40.27
34	Carbon Tetrachloride	117	4.268	4.268	(0.859)	185192	20.0000	19.84(H)
59	Chlorobenzene	112	7.698	7.698	(1.003)	385649	20.0000	20.39
7	Chloroethane	64	1.411	1.411	(0.337)	95266	20.0000	20.08
28	Chloroform	83	3.911	3.911	(0.935)	248749	20.0000	19.93
3	Chloromethane	50	1.085	1.085	(0.259)	141389	20.0000	20.67
27	cis-1,2-Dichloroethene	96	3.533	3.533	(0.844)	147915	20.0000	20.11
46	cis-1,3-Dichloropropene	75	6.157	6.157	(1.239)	227076	20.0000	20.23
55	Dibromochloromethane	129	7.176	7.176	(0.935)	148385	20.0000	20.04
44	Dibromomethane	93	5.557	5.557	(1.118)	88603	20.0000	19.83
2	Dichlorodifluoromethane	85	0.980	0.980	(0.234)	148427	20.0000	20.96
61	Ethylbenzene	106	7.803	7.803	(1.017)	200036	20.0000	20.94
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	83822	20.0000	20.51
67	Isopropylbenzene	105	8.563	8.563	(1.116)	604478	20.0000	21.04
62	m,p-Xylenes	106	7.907	7.907	(1.031)	502559	40.0000	42.30
17	Methylene Chloride	84	2.311	2.311	(0.552)	145583	20.0000	20.90
87	n-Butylbenzene	91	9.995	9.995	(1.034)	421870	20.0000	21.42
73	n-Propylbenzene	91	8.912	8.912	(0.922)	692792	20.0000	21.62
92	Naphthalene	128	11.551	11.551	(1.195)	88822	20.0000	17.94
63	o-Xylene	106	8.245	8.245	(1.075)	237188	20.0000	20.53
81	sec-Butylbenzene	105	9.523	9.523	(0.985)	579666	20.0000	21.17
64	Styrene	104	8.264	8.264	(1.077)	394677	20.0000	20.75
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	424647	20.0000	21.23
56	Tetrachloroethene	164	6.929	6.929	(0.903)	136299	20.0000	21.07
50	Toluene	91	6.449	6.449	(0.841)	569133	20.0000	20.30
20	trans-1,2-Dichloroethene	96	2.536	2.536	(0.606)	127901	20.0000	19.65
51	trans-1,3-Dichloropropene	75	6.685	6.685	(1.346)	187591	20.0000	20.18
38	Trichloroethene	130	5.212	5.212	(1.049)	156440	20.0000	20.60
8	Trichlorofluoromethane	101	1.569	1.569	(0.375)	242471	20.0000	20.81
5	Vinyl Chloride	62	1.149	1.149	(0.275)	156334	20.0000	20.15

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071907.D
Date : 19-JUL-2022 13:32
Client ID: WSTD020
Sample Info: WSTD020;WSTD020;1;6;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

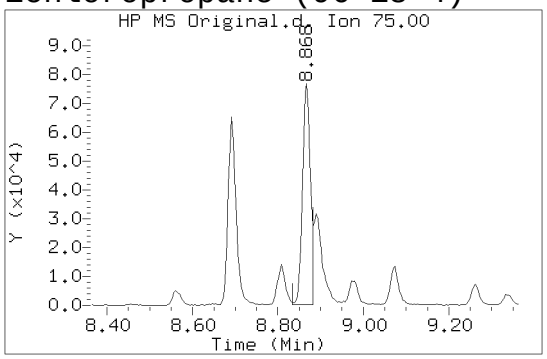
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071907.D
Inj Date : 19-JUL-2022 13:32
InstruID : voa6.i
LabSampID : VSTD020

1,2,3-Trichloropropane (96-18-4)

Reason Code:

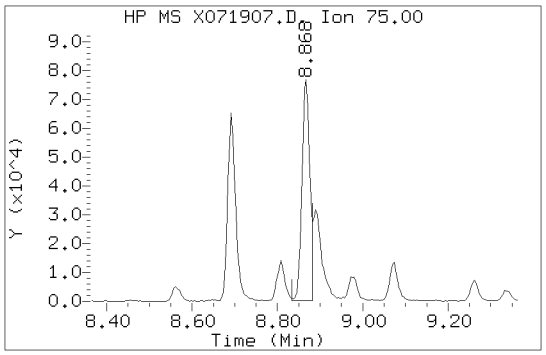
BEFORE

MASS
180
AREA
47433
HEIGHT
30757
25-Jul-2022
09:00
linh
pham



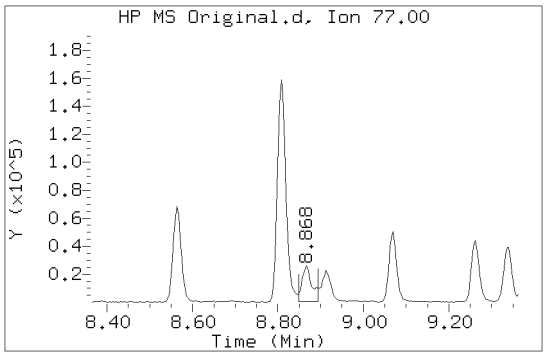
AFTER

MASS
75
AREA
102755
HEIGHT
76577
08-Sep-2022
12:20
linh
pham



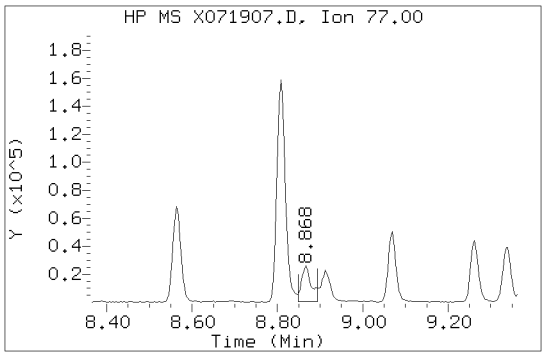
BEFORE

MASS
182
AREA
47169
HEIGHT
29608
25-Jul-2022
09:00
linh
pham



AFTER

MASS
77
AREA
42603
HEIGHT
25788
08-Sep-2022
12:20
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071908.D Page 1
Report Date: 08-Sep-2022 12:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071908.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 19-JUL-2022 13:53
Operator : PC Inst ID: voa6.i
Smp Info : VSTD050;VSTD050;1;7;
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\8260W.m
Meth Date : 08-Sep-2022 12:21 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:32 Cal File: X071907.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.185	4.185	(1.000)	734958	50.0000	
* 36 1,4-Difluorobenzene	114	4.969	4.969	(1.000)	1085873	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	1019317	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	512315	50.0000	
$ 30 Dibromofluoromethane	113	4.103	4.103	(0.980)	346983	50.0000	50.03
$ 35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.069)	382235	50.0000	50.32
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1240134	50.0000	48.76
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	453323	50.0000	49.83
60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	355310	50.0000	49.61
31 1,1,1-Trichloroethane	97	4.088	4.088	(0.977)	502522	50.0000	48.19
68 1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	341695	50.0000	47.48
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	257236	50.0000	49.08
22 1,1-Dichloroethane	63	2.926	2.926	(0.699)	554513	50.0000	49.00
11 1,1-Dichloroethene	96	1.921	1.921	(0.459)	288416	50.0000	47.01
32 1,1-Dichloropropene	75	4.283	4.283	(0.862)	414434	50.0000	47.28
93 1,2,3-Trichlorobenzene	180	11.746	11.746	(1.216)	121908	50.0000	45.77
71 1,2,3-Trichloropropane	75	8.867	8.867	(0.918)	253459	50.0000	45.68
90 1,2,4-Trichlorobenzene	180	11.338	11.338	(1.173)	221394	50.0000	47.44
79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	1162230	50.0000	47.29
89 1,2-Dibromo-3-Chloropropane	155	10.659	10.659	(1.103)	25520	50.0000	47.15

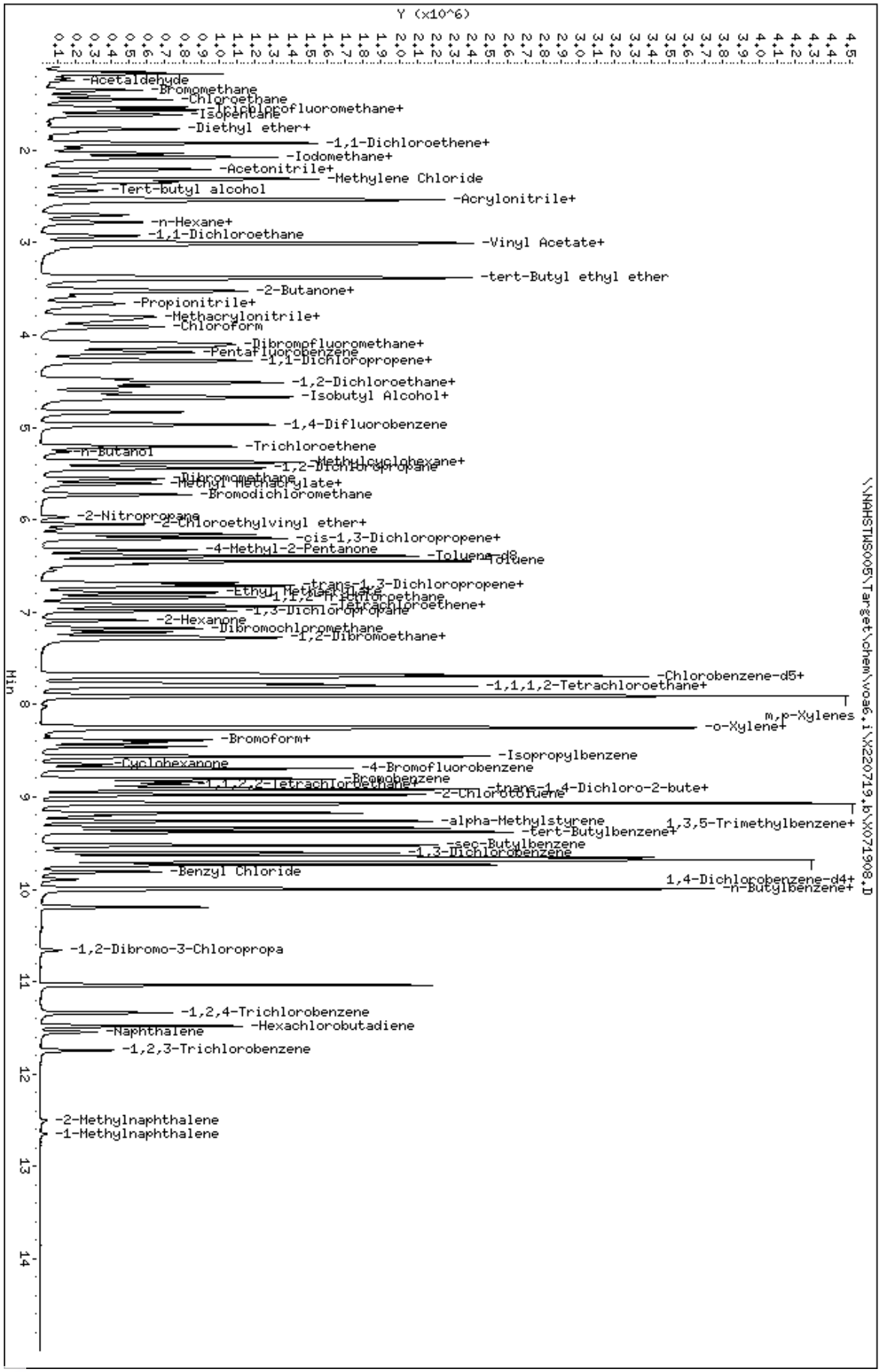
57	1,2-Dibromoethane	107	7.263	7.263 (0.947)	334944	50.0000	50.40
88	1,2-Dichlorobenzene	146	9.996	9.996 (1.035)	617625	50.0000	48.17

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071908.D Page 2
Report Date: 08-Sep-2022 12:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
33	1,2-Dichloroethane	62	4.560	4.560	(0.918)	468638	50.0000	49.20
42	1,2-Dichloropropane	63	5.437	5.437	(1.094)	329416	50.0000	49.28
75	1,3,5-Trimethylbenzene	105	9.070	9.070	(0.939)	1153705	50.0000	46.36
83	1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	684242	50.0000	48.13
54	1,3-Dichloropropane	76	6.982	6.982	(0.910)	527266	50.0000	49.45
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	709045	50.0000	46.98
26	2,2-Dichloropropane	77	3.514	3.514	(0.840)	492680	50.0000	49.02
24	2-Butanone	43	3.585	3.585	(0.857)	193554	100.000	104.97
76	2-Chlorotoluene	91	8.976	8.976	(0.929)	990675	50.0000	45.11
52	2-Hexanone	43	7.090	7.090	(0.924)	323452	100.000	100.91
77	4-Chlorotoluene	91	9.070	9.070	(0.939)	1144586	50.0000	46.69
82	p-Isopropyltoluene	119	9.651	9.651	(0.999)	1165718	50.0000	46.64
45	4-Methyl-2-Pentanone	43	6.329	6.329	(0.825)	498897	100.000	100.44
10	Acetone	43	1.977	1.977	(0.472)	169593	100.000	110.14(M)
37	Benzene	78	4.515	4.515	(0.909)	1259556	50.0000	48.95
74	Bromobenzene	156	8.807	8.807	(0.912)	418666	50.0000	47.85
29	Bromochloromethane	128	3.799	3.799	(0.908)	201063	50.0000	48.52
39	Bromodichloromethane	83	5.730	5.730	(1.153)	463273	50.0000	50.51
66	Bromoform	173	8.410	8.410	(1.096)	238426	50.0000	48.29
6	Bromomethane	94	1.347	1.347	(0.322)	257164	50.0000	51.25
19	Carbon Disulfide	76	2.075	2.075	(0.496)	1581472	100.000	97.36
34	Carbon Tetrachloride	117	4.268	4.268	(0.859)	424773	50.0000	45.34(H)
59	Chlorobenzene	112	7.698	7.698	(1.003)	943881	50.0000	48.83
7	Chloroethane	64	1.407	1.407	(0.336)	230467	50.0000	48.88
28	Chloroform	83	3.908	3.908	(0.934)	615600	50.0000	49.65
3	Chloromethane	50	1.085	1.085	(0.259)	337031	50.0000	49.52
27	cis-1,2-Dichloroethene	96	3.529	3.529	(0.843)	373987	50.0000	51.18
46	cis-1,3-Dichloropropene	75	6.157	6.157	(1.239)	580323	50.0000	51.51
55	Dibromochloromethane	129	7.177	7.177	(0.936)	378662	50.0000	50.05
44	Dibromomethane	93	5.557	5.557	(1.118)	223928	50.0000	49.93
2	Dichlorodifluoromethane	85	0.980	0.980	(0.234)	341283	50.0000	48.73
61	Ethylbenzene	106	7.803	7.803	(1.017)	467536	50.0000	47.88
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	184987	50.0000	42.92
67	Isopropylbenzene	105	8.564	8.564	(1.116)	1383160	50.0000	47.10
62	m,p-Xylenes	106	7.908	7.908	(1.031)	1179120	100.000	97.09
17	Methylene Chloride	84	2.311	2.311	(0.552)	346955	50.0000	51.36
87	n-Butylbenzene	91	9.996	9.996	(1.035)	990308	50.0000	47.69
73	n-Propylbenzene	91	8.916	8.916	(0.923)	1583552	50.0000	46.85
92	Naphthalene	128	11.548	11.548	(1.195)	238116	50.0000	45.61
63	o-Xylene	106	8.241	8.241	(1.074)	567732	50.0000	48.08
81	sec-Butylbenzene	105	9.523	9.523	(0.986)	1311547	50.0000	45.41
64	Styrene	104	8.264	8.264	(1.077)	976088	50.0000	50.20
78	tert-Butylbenzene	119	9.340	9.340	(0.967)	962419	50.0000	45.63
56	Tetrachloroethene	164	6.929	6.929	(0.903)	305207	50.0000	46.17
50	Toluene	91	6.449	6.449	(0.841)	1377205	50.0000	48.06
20	trans-1,2-Dichloroethene	96	2.536	2.536	(0.606)	319350	50.0000	49.39
51	trans-1,3-Dichloropropene	75	6.682	6.682	(1.345)	493101	50.0000	52.85
38	Trichloroethene	130	5.209	5.209	(1.048)	369860	50.0000	48.52
8	Trichlorofluoromethane	101	1.565	1.565	(0.374)	545635	50.0000	47.14
5	Vinyl Chloride	62	1.149	1.149	(0.275)	370791	50.0000	48.11

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071908.D
Date : 19-JUL-2022 13:53
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;1;7;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

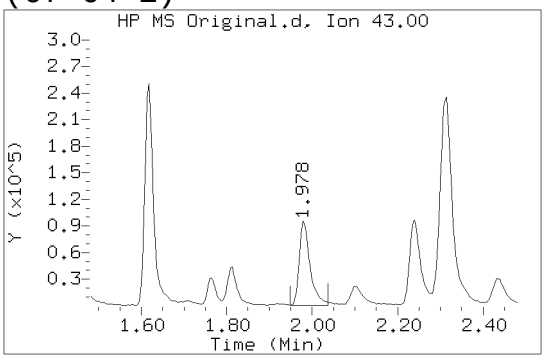
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071908.D
Inj Date : 19-JUL-2022 13:53
InstruID : voa6.i
LabSampID : VSTD050

Acetone (67-64-1)

Reason Code:

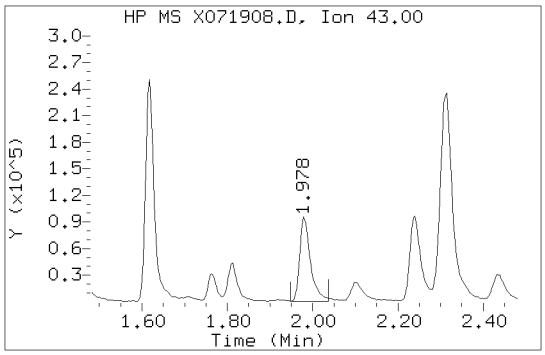
BEFORE

MASS
62
AREA
370791
HEIGHT
328896
25-Jul-2022
09:00
linh
pham



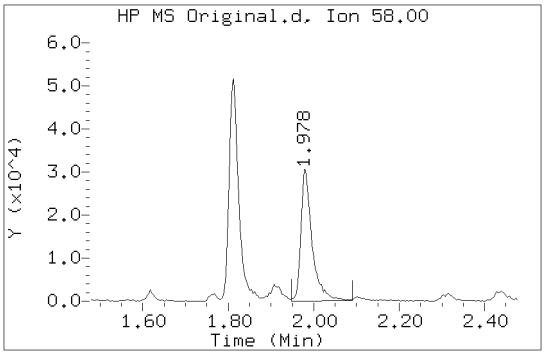
AFTER

MASS
43
AREA
169593
HEIGHT
95333
08-Sep-2022
12:20
linh
pham



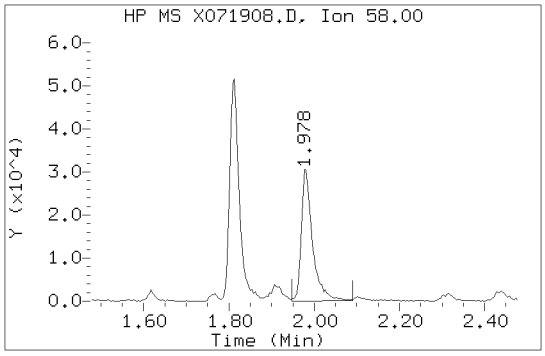
BEFORE

MASS
64
AREA
122861
HEIGHT
107460
25-Jul-2022
09:00
linh
pham



AFTER

MASS
58
AREA
56937
HEIGHT
30574
08-Sep-2022
12:20
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071909.D Page 1
Report Date: 08-Sep-2022 12:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071909.D
Lab Smp Id: VSTD100 Client Smp ID: VSTD100
Inj Date : 19-JUL-2022 14:14
Operator : PC Inst ID: voa6.i
Smp Info : VSTD100;VSTD100;1;8;
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\8260W.m
Meth Date : 08-Sep-2022 12:21 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 10 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.185	4.185	(1.000)	776308	50.0000	
* 36 1,4-Difluorobenzene	114	4.968	4.968	(1.000)	1154877	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	1081115	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.665	9.665	(1.000)	547857	50.0000	
$ 30 Dibromofluoromethane	113	4.102	4.102	(0.980)	746005	100.000	102.58
$ 35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.069)	809230	100.000	101.19
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	2649228	100.000	98.21
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	977060	100.000	102.12
60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	765283	100.000	100.75
31 1,1,1-Trichloroethane	97	4.087	4.087	(0.977)	1106771	100.000	100.49
68 1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	730488	100.000	94.93
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	543440	100.000	97.76
22 1,1-Dichloroethane	63	2.925	2.925	(0.699)	1163915	100.000	97.38
11 1,1-Dichloroethene	96	1.921	1.921	(0.459)	624202	100.000	96.32
32 1,1-Dichloropropene	75	4.282	4.282	(0.862)	942439	100.000	101.11
93 1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	284991	100.000	100.06
71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	543511	100.000	91.61
90 1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	522833	100.000	104.77
79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	2572257	100.000	97.88
89 1,2-Dibromo-3-Chloropropane	155	10.659	10.659	(1.103)	61674	100.000	100.54

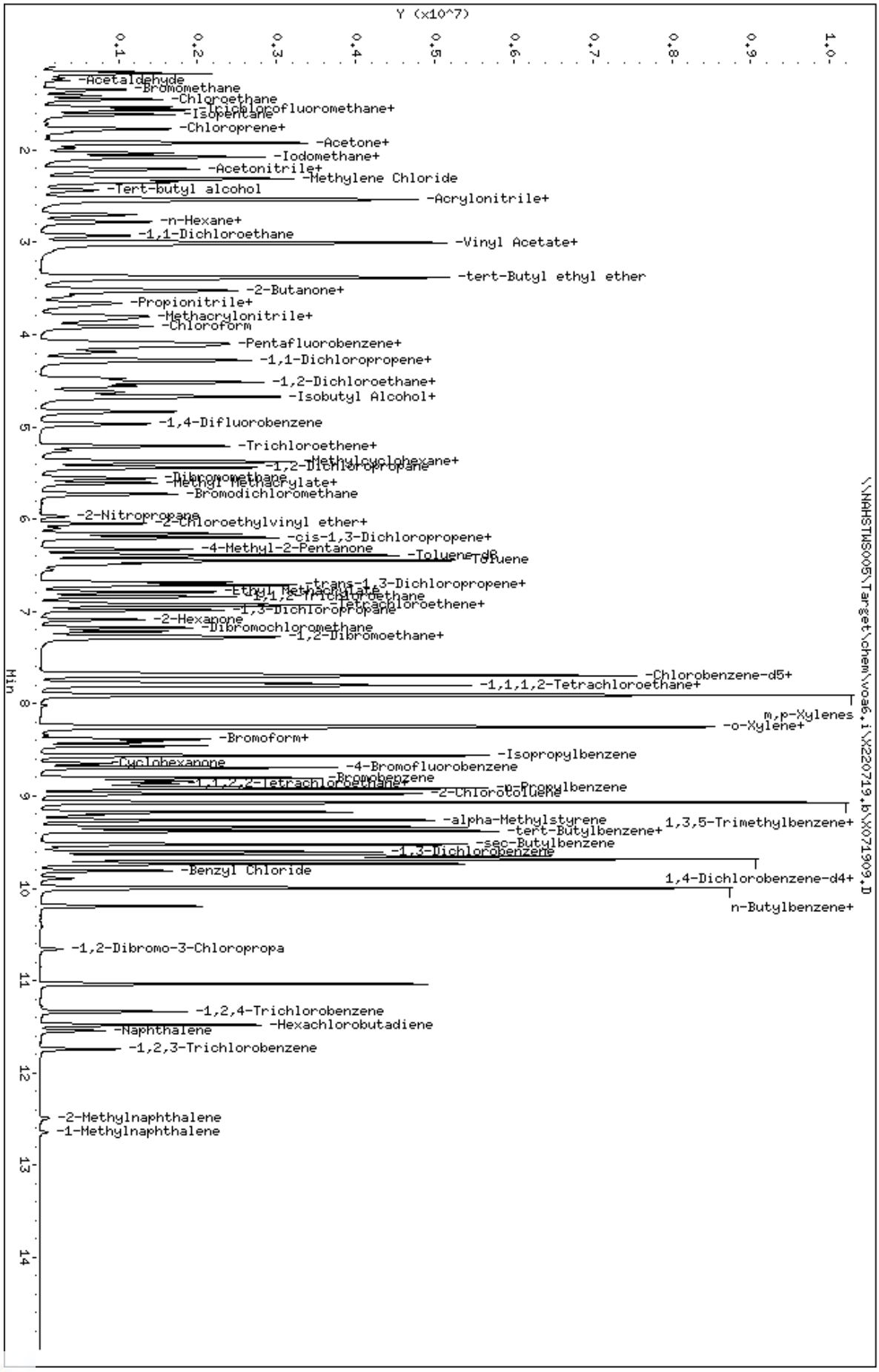
57	1,2-Dibromoethane	107	7.263	7.263 (0.947)	703523	100.000	99.81
88	1,2-Dichlorobenzene	146	9.992	9.992 (1.034)	1339459	100.000	97.71

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071909.D Page 2
Report Date: 08-Sep-2022 12:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
33	1,2-Dichloroethane	62	4.560	4.560	(0.918)	980664	100.000	96.82
42	1,2-Dichloropropane	63	5.441	5.441	(1.095)	691249	100.000	97.24
75	1,3,5-Trimethylbenzene	105	9.069	9.069	(0.938)	2590896	100.000	97.36
83	1,3-Dichlorobenzene	146	9.605	9.605	(0.994)	1499323	100.000	98.63
54	1,3-Dichloropropane	76	6.981	6.981	(0.910)	1108876	100.000	98.07
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	1533271	100.000	95.01
26	2,2-Dichloropropane	77	3.514	3.514	(0.840)	1068902	100.000	100.95
24	2-Butanone	43	3.581	3.581	(0.856)	410442	200.000	210.75(A)
76	2-Chlorotoluene	91	8.976	8.976	(0.929)	2164299	100.000	92.16
52	2-Hexanone	43	7.086	7.086	(0.924)	701293	200.000	206.29(A)
77	4-Chlorotoluene	91	9.069	9.069	(0.938)	2500348	100.000	95.39
82	p-Isopropyltoluene	119	9.650	9.650	(0.998)	2680829	100.000	100.31
45	4-Methyl-2-Pentanone	43	6.325	6.325	(0.825)	1056968	200.000	200.64(A)
10	Acetone	43	1.977	1.977	(0.472)	331360	200.000	208.83(A)
37	Benzene	78	4.515	4.515	(0.909)	2647487	100.000	96.74
74	Bromobenzene	156	8.807	8.807	(0.911)	908365	100.000	97.08
29	Bromochloromethane	128	3.799	3.799	(0.908)	418744	100.000	95.66
39	Bromodichloromethane	83	5.726	5.726	(1.152)	974443	100.000	99.90
66	Bromoform	173	8.410	8.410	(1.096)	516716	100.000	97.39
6	Bromomethane	94	1.343	1.343	(0.321)	532992	100.000	101.88
19	Carbon Disulfide	76	2.074	2.074	(0.496)	3384413	200.000	197.27
34	Carbon Tetrachloride	117	4.267	4.267	(0.859)	960811	100.000	96.44(H)
59	Chlorobenzene	112	7.694	7.694	(1.003)	2022869	100.000	98.68
7	Chloroethane	64	1.407	1.407	(0.336)	481997	100.000	96.80
28	Chloroform	83	3.911	3.911	(0.935)	1279887	100.000	97.74
3	Chloromethane	50	1.085	1.085	(0.259)	703134	100.000	97.77
27	cis-1,2-Dichloroethene	96	3.529	3.529	(0.843)	776558	100.000	100.61
46	cis-1,3-Dichloropropene	75	6.157	6.157	(1.239)	1219777	100.000	101.81
55	Dibromochloromethane	129	7.176	7.176	(0.936)	810497	100.000	101.00
44	Dibromomethane	93	5.553	5.553	(1.118)	469656	100.000	98.47
2	Dichlorodifluoromethane	85	0.980	0.980	(0.234)	739202	100.000	100.12
61	Ethylbenzene	106	7.802	7.802	(1.017)	1028416	100.000	99.31
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	461667	100.000	100.18
67	Isopropylbenzene	105	8.563	8.563	(1.116)	3131111	100.000	100.54
62	m,p-Xylenes	106	7.907	7.907	(1.031)	2582956	200.000	200.53(A)
17	Methylene Chloride	84	2.311	2.311	(0.552)	702932	100.000	99.32
87	n-Butylbenzene	91	9.995	9.995	(1.034)	2308605	100.000	103.96
73	n-Propylbenzene	91	8.916	8.916	(0.922)	3608465	100.000	99.84
92	Naphthalene	128	11.543	11.543	(1.194)	569028	100.000	101.93
63	o-Xylene	106	8.245	8.245	(1.075)	1248477	100.000	99.70
81	sec-Butylbenzene	105	9.523	9.523	(0.985)	3060744	100.000	99.10
64	Styrene	104	8.260	8.260	(1.077)	2141037	100.000	103.83
78	tert-Butylbenzene	119	9.339	9.339	(0.966)	2210374	100.000	98.00
56	Tetrachloroethene	164	6.929	6.929	(0.903)	678866	100.000	96.83
50	Toluene	91	6.449	6.449	(0.841)	2931075	100.000	96.44
20	trans-1,2-Dichloroethene	96	2.536	2.536	(0.606)	677550	100.000	99.21
51	trans-1,3-Dichloropropene	75	6.682	6.682	(1.345)	1049314	100.000	105.75
38	Trichloroethene	130	5.208	5.208	(1.048)	803862	100.000	99.16
8	Trichlorofluoromethane	101	1.565	1.565	(0.374)	1203433	100.000	98.44
5	Vinyl Chloride	62	1.149	1.149	(0.275)	778484	100.000	95.63

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.
H - Operator selected an alternate compound hit.



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071909.D
Date : 19-JUL-2022 14:14
Client ID: WSTD100
Sample Info: WSTD100;WSTD100;1;8;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071909.D
Inj Date : 19-JUL-2022 14:14
InstruID : voa6.i
LabSampID : VSTD100

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071910.D Page 1
Report Date: 08-Sep-2022 12:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071910.D
Lab Smp Id: VSTD150 Client Smp ID: VSTD150
Inj Date : 19-JUL-2022 14:35
Operator : PC Inst ID: voa6.i
Smp Info : VSTD150;VSTD150;1;9;
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\8260W.m
Meth Date : 08-Sep-2022 12:21 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 14:14 Cal File: X071909.D
Als bottle: 11 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.185	4.185	(1.000)	796235	50.0000	
* 36 1,4-Difluorobenzene	114	4.969	4.969	(1.000)	1171801	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	1091116	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.666	9.666	(1.000)	549184	50.0000	
$ 30 Dibromofluoromethane	113	4.103	4.103	(0.980)	1092576	150.000	146.79
$ 35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.069)	1212903	150.000	148.03
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	3736951	150.000	137.26
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	1441404	150.000	149.65
60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	1195482	150.000	155.95
31 1,1,1-Trichloroethane	97	4.084	4.084	(0.976)	1707773	150.000	151.19
68 1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	1135034	150.000	147.15
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	835768	150.000	148.97
22 1,1-Dichloroethane	63	2.926	2.926	(0.699)	1791548	150.000	146.15
11 1,1-Dichloroethene	96	1.921	1.921	(0.459)	943462	150.000	141.94
32 1,1-Dichloropropene	75	4.283	4.283	(0.862)	1444196	150.000	152.70
93 1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	478272	150.000	167.52
71 1,2,3-Trichloropropane	75	8.867	8.867	(0.917)	931744	150.000	156.67(M)
90 1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	848085	150.000	169.54
79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	3955329	150.000	150.14
89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.102)	99187	150.000	151.45

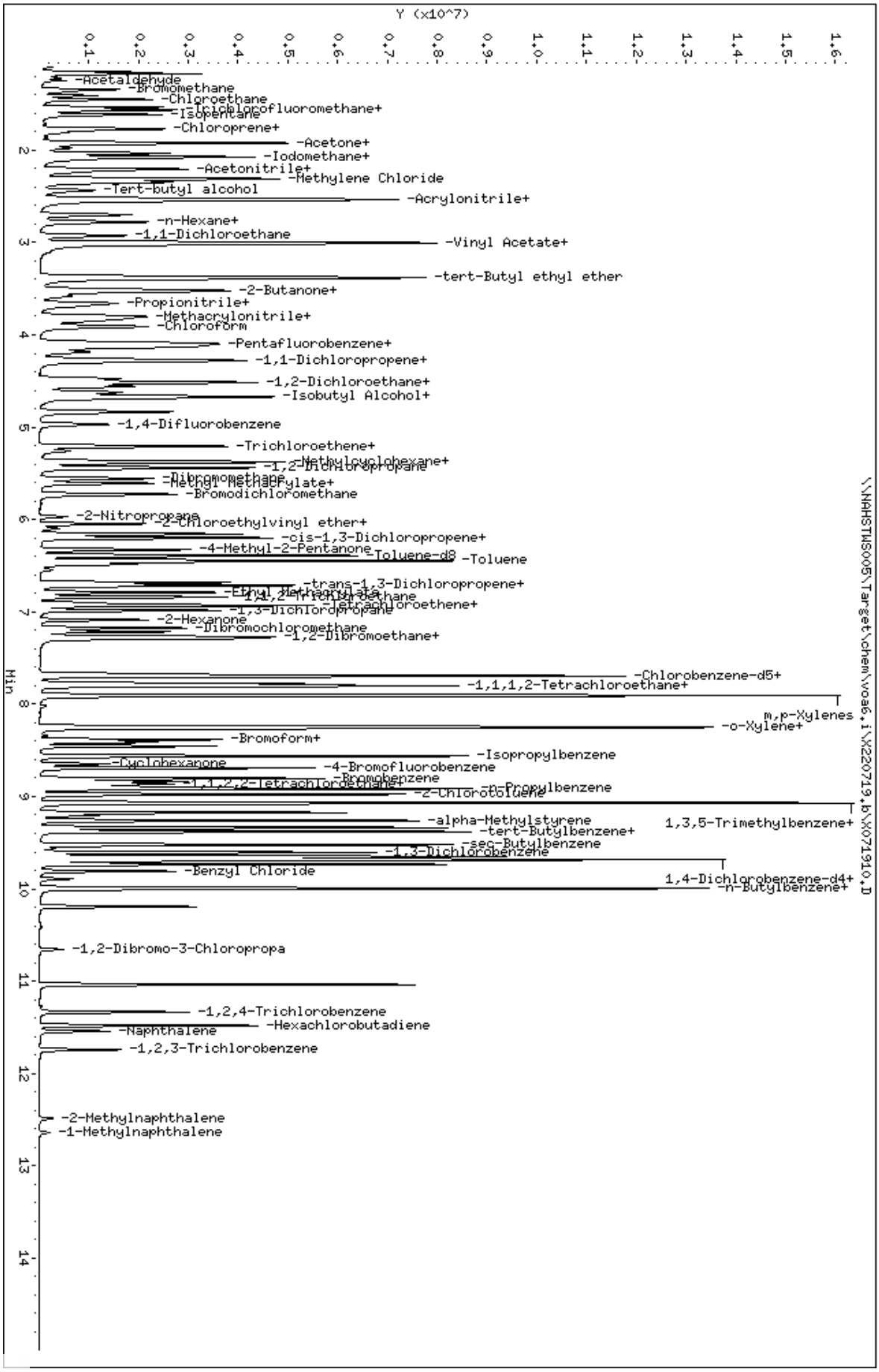
57	1,2-Dibromoethane	107	7.263	7.263 (0.947)	1092479	150.000	153.58
88	1,2-Dichlorobenzene	146	9.992	9.992 (1.034)	2079140	150.000	151.30

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071910.D Page 2
Report Date: 08-Sep-2022 12:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
33	1,2-Dichloroethane	62	4.560	4.560	(0.918)	1482391	150.000	144.24
42	1,2-Dichloropropane	63	5.441	5.441	(1.095)	1070151	150.000	148.37
75	1,3,5-Trimethylbenzene	105	9.070	9.070	(0.938)	4008964	150.000	150.28
83	1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	2311073	150.000	151.67
54	1,3-Dichloropropane	76	6.982	6.982	(0.910)	1715864	150.000	150.36
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	2360078	150.000	145.89
26	2,2-Dichloropropane	77	3.514	3.514	(0.840)	1641201	150.000	151.24
24	2-Butanone	43	3.582	3.582	(0.856)	642842	300.000	321.82(A)
76	2-Chlorotoluene	91	8.976	8.976	(0.929)	3314698	150.000	140.81
52	2-Hexanone	43	7.087	7.087	(0.924)	1103937	300.000	321.75(A)
77	4-Chlorotoluene	91	9.070	9.070	(0.938)	3879627	150.000	147.65
82	p-Isopropyltoluene	119	9.651	9.651	(0.998)	4157908	150.000	155.21
45	4-Methyl-2-Pentanone	43	6.329	6.329	(0.825)	1655136	300.000	311.31(A)
10	Acetone	43	1.977	1.977	(0.472)	485174	300.000	300.69(A)
37	Benzene	78	4.515	4.515	(0.909)	4062135	150.000	146.29
74	Bromobenzene	156	8.807	8.807	(0.911)	1415416	150.000	150.91
29	Bromochloromethane	128	3.799	3.799	(0.908)	653335	150.000	145.52
39	Bromodichloromethane	83	5.726	5.726	(1.152)	1524319	150.000	154.02
66	Bromoform	173	8.410	8.410	(1.096)	810870	150.000	150.74
6	Bromomethane	94	1.344	1.344	(0.321)	802069	150.000	150.12
19	Carbon Disulfide	76	2.075	2.075	(0.496)	5174750	300.000	294.08(A)
34	Carbon Tetrachloride	117	4.268	4.268	(0.859)	1493025	150.000	147.70(H)
59	Chlorobenzene	112	7.694	7.694	(1.003)	3132676	150.000	151.41
7	Chloroethane	64	1.407	1.407	(0.336)	733919	150.000	143.70
28	Chloroform	83	3.911	3.911	(0.935)	1980101	150.000	147.43
3	Chloromethane	50	1.085	1.085	(0.259)	1102492	150.000	149.44
27	cis-1,2-Dichloroethene	96	3.529	3.529	(0.843)	1206122	150.000	152.36
46	cis-1,3-Dichloropropene	75	6.157	6.157	(1.239)	1917971	150.000	157.77
55	Dibromochloromethane	129	7.176	7.176	(0.935)	1278087	150.000	157.81
44	Dibromomethane	93	5.553	5.553	(1.118)	729812	150.000	150.81
2	Dichlorodifluoromethane	85	0.976	0.976	(0.233)	1136547	150.000	150.17
61	Ethylbenzene	106	7.803	7.803	(1.017)	1591049	150.000	152.23
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	720247	150.000	155.91
67	Isopropylbenzene	105	8.563	8.563	(1.116)	4840536	150.000	154.01
62	m,p-Xylenes	106	7.907	7.907	(1.031)	4020049	300.000	309.24(A)
17	Methylene Chloride	84	2.307	2.307	(0.551)	1078247	150.000	148.97
87	n-Butylbenzene	91	9.995	9.995	(1.034)	3614158	150.000	162.36
73	n-Propylbenzene	91	8.916	8.916	(0.922)	5561718	150.000	153.51
92	Naphthalene	128	11.544	11.544	(1.194)	950153	150.000	169.80
63	o-Xylene	106	8.245	8.245	(1.075)	1929311	150.000	152.66
81	sec-Butylbenzene	105	9.523	9.523	(0.985)	4735185	150.000	152.94
64	Styrene	104	8.260	8.260	(1.077)	3307549	150.000	158.93
78	tert-Butylbenzene	119	9.339	9.339	(0.966)	3394260	150.000	150.12
56	Tetrachloroethene	164	6.929	6.929	(0.903)	1047361	150.000	148.02
50	Toluene	91	6.449	6.449	(0.841)	4550354	150.000	148.35
20	trans-1,2-Dichloroethene	96	2.532	2.532	(0.605)	1045463	150.000	149.25
51	trans-1,3-Dichloropropene	75	6.682	6.682	(1.345)	1642003	150.000	163.10
38	Trichloroethene	130	5.208	5.208	(1.048)	1236555	150.000	150.33
8	Trichlorofluoromethane	101	1.565	1.565	(0.374)	1807152	150.000	144.12
5	Vinyl Chloride	62	1.149	1.149	(0.275)	1188248	150.000	142.31

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



Data File: \\NAHSTNS005\Target\chem\voa6,i\X220719,b\X071910,D
Date : 19-JUL-2022 14:35
Client ID: VSTD150
Sample Info: VSTD150;VSTD150;1;9;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6,i
Operator: PC
Column diameter: 0.18

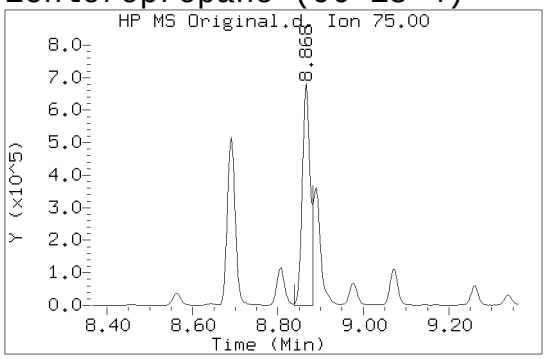
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071910.D
Inj Date : 19-JUL-2022 14:35
InstruID : voa6.i
LabSampID : VSTD150

1,2,3-Trichloropropane (96-18-4)

Reason Code:

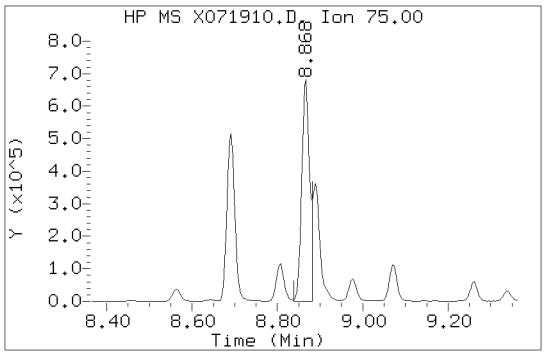
BEFORE

MASS
180
AREA
478272
HEIGHT
343057
25-Jul-2022
09:00
linh
pham



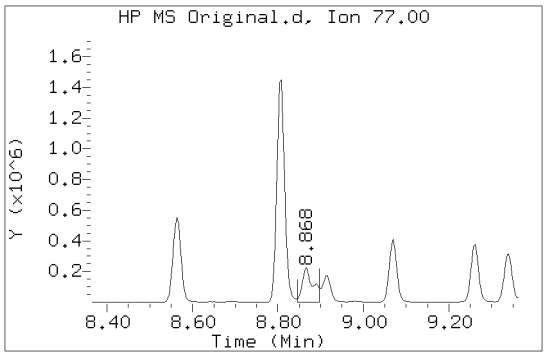
AFTER

MASS
75
AREA
931744
HEIGHT
680724
08-Sep-2022
12:20
linh
pham



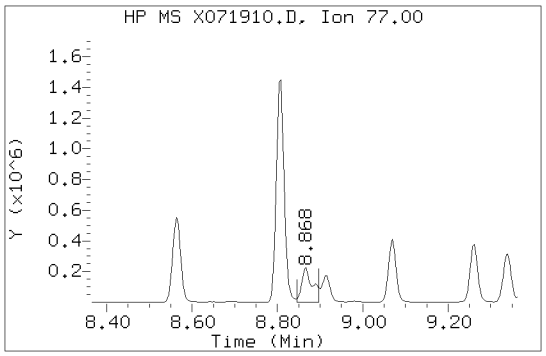
BEFORE

MASS
182
AREA
460546
HEIGHT
324767
25-Jul-2022
09:00
linh
pham



AFTER

MASS
77
AREA
405506
HEIGHT
224343
08-Sep-2022
12:20
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071911.D Page 1
Report Date: 08-Sep-2022 12:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071911.D
Lab Smp Id: VSTD200 Client Smp ID: VSTD200
Inj Date : 19-JUL-2022 14:56
Operator : PC Inst ID: voa6.i
Smp Info : VSTD200;VSTD200;1;10;
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\8260W.m
Meth Date : 08-Sep-2022 12:21 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 14:35 Cal File: X071910.D
Als bottle: 12 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.185	4.185	(1.000)	803738	50.0000	
* 36 1,4-Difluorobenzene	114	4.968	4.968	(1.000)	1205073	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	1124346	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.666	9.666	(1.000)	554221	50.0000	
$ 30 Dibromofluoromethane	113	4.103	4.103	(0.980)	1508056	200.000	200.99(A)
$ 35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.069)	1659515	200.000	200.76(A)
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	5194877	200.000	185.18
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	1974506	200.000	199.21
60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	1612294	200.000	204.10(A)
31 1,1,1-Trichloroethane	97	4.088	4.088	(0.977)	2254143	200.000	197.69
68 1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	1542895	200.000	198.21
53 1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	1135727	200.000	196.46
22 1,1-Dichloroethane	63	2.925	2.925	(0.699)	2426731	200.000	196.12
11 1,1-Dichloroethene	96	1.917	1.917	(0.458)	1236595	200.000	184.31
32 1,1-Dichloropropene	75	4.282	4.282	(0.862)	1896946	200.000	195.04
93 1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	666695	200.000	231.39(A)
71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	1167458	200.000	194.52
90 1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	1148206	200.000	227.46(A)
79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	5244947	200.000	197.29
89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.102)	141749	200.000	199.27

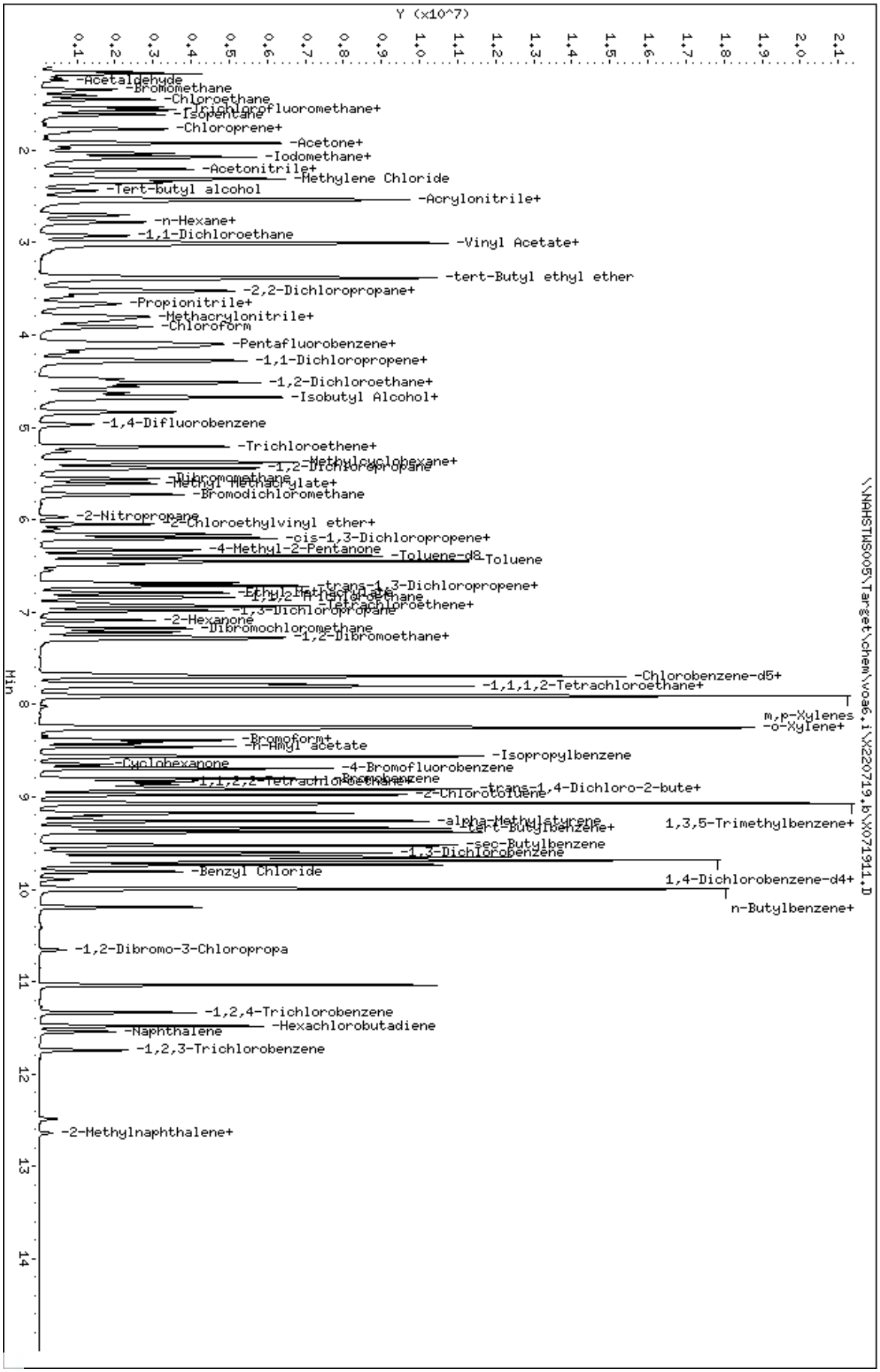
57 1,2-Dibromoethane	107	7.263	7.263 (0.947)	1496052	200.000	204.10(A)
88 1,2-Dichlorobenzene	146	9.992	9.992 (1.034)	2799420	200.000	201.86(A)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071911.D Page 2
Report Date: 08-Sep-2022 12:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
33	1,2-Dichloroethane	62	4.560	4.560	(0.918)	2012582	200.000	190.42
42	1,2-Dichloropropane	63	5.437	5.437	(1.094)	1450727	200.000	195.58
75	1,3,5-Trimethylbenzene	105	9.070	9.070	(0.938)	5246350	200.000	194.88
83	1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	3095537	200.000	201.30(A)
54	1,3-Dichloropropane	76	6.985	6.985	(0.911)	2324887	200.000	197.71
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	3163641	200.000	193.79
26	2,2-Dichloropropane	77	3.514	3.514	(0.840)	2176392	200.000	198.77
24	2-Butanone	43	3.578	3.578	(0.855)	881176	400.000	437.02(AH)
76	2-Chlorotoluene	91	8.976	8.976	(0.929)	4456010	200.000	187.57
52	2-Hexanone	43	7.086	7.086	(0.924)	1516523	400.000	428.94(A)
77	4-Chlorotoluene	91	9.070	9.070	(0.938)	5189116	200.000	195.69
82	p-Isopropyltoluene	119	9.651	9.651	(0.998)	5441966	200.000	201.30(A)
45	4-Methyl-2-Pentanone	43	6.329	6.329	(0.825)	2269263	400.000	414.21(A)
10	Acetone	43	1.981	1.981	(0.473)	633758	400.000	390.88(A)
37	Benzene	78	4.515	4.515	(0.909)	5472288	200.000	191.63
74	Bromobenzene	156	8.807	8.807	(0.911)	1893902	200.000	200.09(A)
29	Bromochloromethane	128	3.795	3.795	(0.907)	892720	200.000	196.99
39	Bromodichloromethane	83	5.729	5.729	(1.153)	2073168	200.000	203.70(A)
66	Bromoform	173	8.410	8.410	(1.096)	1117306	200.000	201.16(A)
6	Bromomethane	94	1.344	1.344	(0.321)	1068317	200.000	198.52
19	Carbon Disulfide	76	2.075	2.075	(0.496)	6899401	400.000	388.43(A)
34	Carbon Tetrachloride	117	4.268	4.268	(0.859)	1968804	200.000	189.40(H)
59	Chlorobenzene	112	7.694	7.694	(1.003)	4198880	200.000	196.95
7	Chloroethane	64	1.407	1.407	(0.336)	975969	200.000	189.31
28	Chloroform	83	3.911	3.911	(0.935)	2672684	200.000	197.14
3	Chloromethane	50	1.085	1.085	(0.259)	1500734	200.000	201.51(A)
27	cis-1,2-Dichloroethene	96	3.529	3.529	(0.843)	1625068	200.000	203.37(A)
46	cis-1,3-Dichloropropene	75	6.157	6.157	(1.239)	2613041	200.000	209.02(A)
55	Dibromochloromethane	129	7.176	7.176	(0.935)	1744246	200.000	209.01(A)
44	Dibromomethane	93	5.553	5.553	(1.118)	992325	200.000	199.39
2	Dichlorodifluoromethane	85	0.976	0.976	(0.233)	1493067	200.000	195.49
61	Ethylbenzene	106	7.802	7.802	(1.017)	2112026	200.000	196.11
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	962444	200.000	206.45(A)
67	Isopropylbenzene	105	8.563	8.563	(1.116)	6316064	200.000	195.02
62	m,p-Xylenes	106	7.907	7.907	(1.031)	5292303	400.000	395.08(A)
17	Methylene Chloride	84	2.307	2.307	(0.551)	1463710	200.000	200.64(A)
87	n-Butylbenzene	91	9.995	9.995	(1.034)	4708202	200.000	209.59(A)
73	n-Propylbenzene	91	8.916	8.916	(0.922)	7282081	200.000	199.17
92	Naphthalene	128	11.544	11.544	(1.194)	1361878	200.000	241.16(A)
63	o-Xylene	106	8.245	8.245	(1.075)	2579739	200.000	198.10
81	sec-Butylbenzene	105	9.523	9.523	(0.985)	6146815	200.000	196.74
64	Styrene	104	8.260	8.260	(1.077)	4441868	200.000	207.13(A)
78	tert-Butylbenzene	119	9.339	9.339	(0.966)	4414774	200.000	193.49
56	Tetrachloroethene	164	6.929	6.929	(0.903)	1363627	200.000	187.03
50	Toluene	91	6.449	6.449	(0.841)	6032619	200.000	190.87
20	trans-1,2-Dichloroethene	96	2.532	2.532	(0.605)	1400331	200.000	198.05
51	trans-1,3-Dichloropropene	75	6.682	6.682	(1.345)	2241759	200.000	216.52(A)
38	Trichloroethene	130	5.208	5.208	(1.048)	1647543	200.000	194.77
8	Trichlorofluoromethane	101	1.565	1.565	(0.374)	2331731	200.000	184.23
5	Vinyl Chloride	62	1.149	1.149	(0.275)	1561762	200.000	185.30

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.
H - Operator selected an alternate compound hit.



Data File: \\NAHSTMS005\Target\chem\voa6.i\X220719.b\X071911.D
Date : 19-JUL-2022 14:56
Client ID: VSTD200
Sample Info: VSTD200;VSTD200;1;10;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071911.D
Inj Date : 19-JUL-2022 14:56
InstruID : voa6.i
LabSampID : VSTD200

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071915.D Page 1
Report Date: 08-Sep-2022 12:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071915.D
Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 19-JUL-2022 16:20
Operator : PC Inst ID: voa6.i
Smp Info : CCV;CCV;2;;ICV
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\8260W.m
Meth Date : 08-Sep-2022 12:21 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 14:56 Cal File: X071911.D
Als bottle: 16 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.185	4.185	(1.000)	803279	50.0000	
* 36 1,4-Difluorobenzene	114	4.969	4.968	(1.000)	1177898	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	1099931	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.666	(1.000)	554211	50.0000	
$ 30 Dibromofluoromethane	113	4.103	4.103	(0.980)	393451	51.9327	51.93
$ 35 1,2-Dichloroethane-d4	65	4.478	4.474	(1.070)	422461	50.8929	50.89
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1372695	50.0189	50.01
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	511712	52.1682	52.16
60 1,1,1,2-Tetrachloroethane	131	7.773	7.776	(1.013)	375568	48.6005	48.60
31 1,1,1-Trichloroethane	97	4.088	4.088	(0.977)	538729	47.2761	47.27
68 1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	372935	47.9121	47.91
53 1,1,2-Trichloroethane	83	6.839	6.843	(0.892)	269933	47.7307	47.73
22 1,1-Dichloroethane	63	2.929	2.925	(0.700)	575772	46.5590	46.55
11 1,1-Dichloroethene	96	1.921	1.917	(0.459)	306381	45.6913	45.69
32 1,1-Dichloropropene	75	4.283	4.282	(0.862)	455600	47.9253	47.92
93 1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	168688	58.5498	58.54
71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	277578	46.2518	46.25
90 1,2,4-Trichlorobenzene	180	11.338	11.337	(1.173)	285078	56.4761	56.47
79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	1296372	48.7653	48.76
89 1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	32044	54.3117	54.31

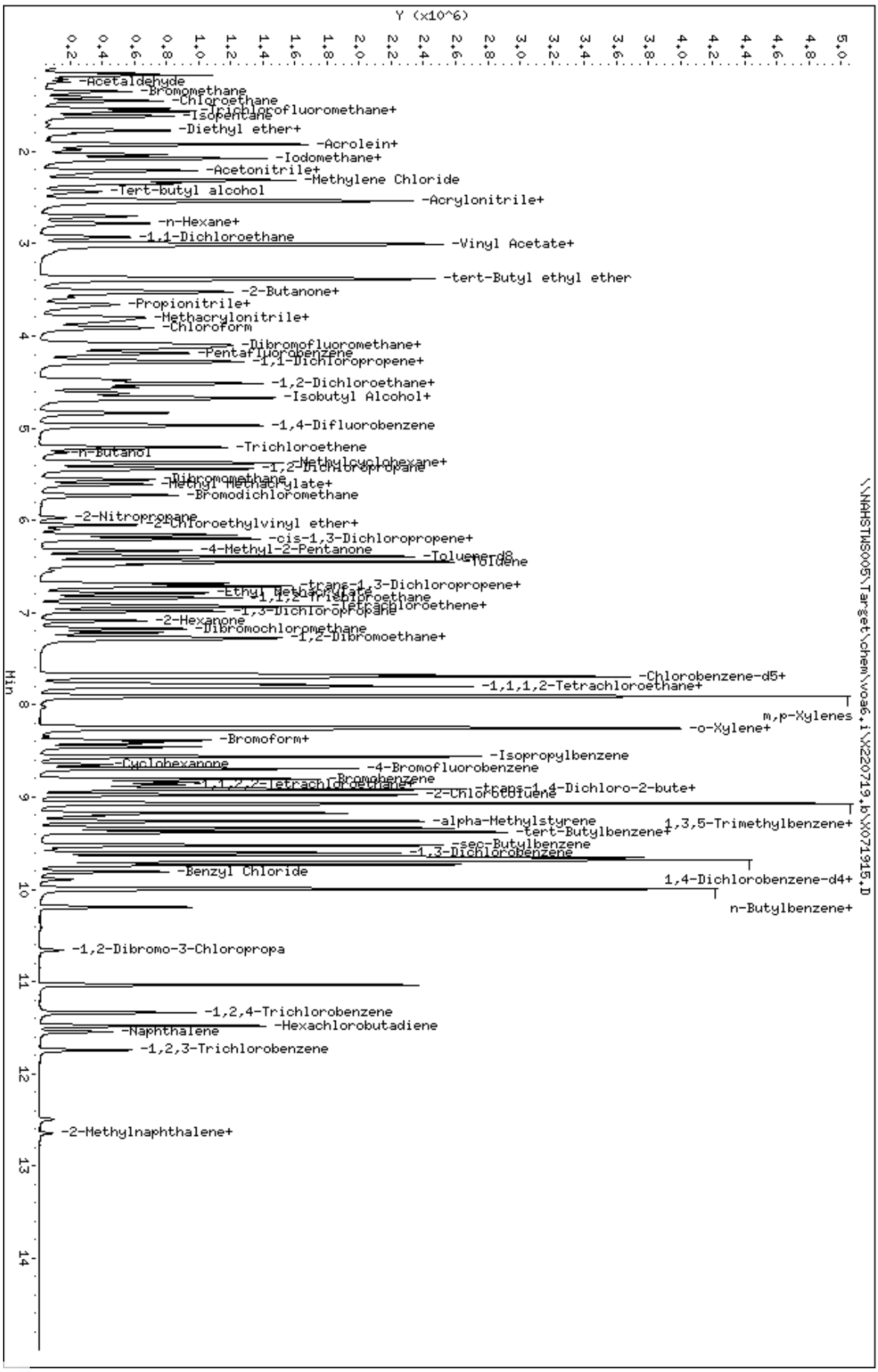
57 1,2-Dibromoethane	107	7.263	7.263 (0.947)	355369	49.5585	49.55
88 1,2-Dichlorobenzene	146	9.992	9.992 (1.034)	690253	49.7749	49.77

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071915.D Page 2
Report Date: 08-Sep-2022 12:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
33	1,2-Dichloroethane	62	4.560	4.560	(0.918)	487745	47.2147	47.21
42	1,2-Dichloropropane	63	5.437	5.437	(1.094)	341934	47.1626	47.16
75	1,3,5-Trimethylbenzene	105	9.070	9.070	(0.939)	1283913	47.6934	47.69
83	1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	756362	49.1885	49.18
54	1,3-Dichloropropane	76	6.982	6.985	(0.910)	552590	48.0362	48.03
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	785297	48.1053	48.10
26	2,2-Dichloropropane	77	3.514	3.514	(0.840)	537177	48.9036	48.90
24	2-Butanone	43	3.582	3.578	(0.856)	214703	106.544	106.54
76	2-Chlorotoluene	91	8.976	8.976	(0.929)	1080955	45.5033	45.50
52	2-Hexanone	43	7.090	7.086	(0.924)	360829	104.326	104.32
77	4-Chlorotoluene	91	9.070	9.070	(0.939)	1262067	47.5975	47.59
82	p-Isopropyltoluene	119	9.651	9.651	(0.999)	1319696	48.8179	48.81
45	4-Methyl-2-Pentanone	43	6.326	6.329	(0.825)	541981	101.124	101.12
10	Acetone	43	1.981	1.981	(0.473)	197688	117.868	117.86(M)
37	Benzene	78	4.515	4.515	(0.909)	1304561	46.7389	46.73
74	Bromobenzene	156	8.807	8.807	(0.912)	455307	48.1063	48.10
29	Bromochloromethane	128	3.799	3.795	(0.908)	208389	46.0110	46.01
39	Bromodichloromethane	83	5.726	5.729	(1.152)	484620	48.7163	48.71
66	Bromoform	173	8.410	8.410	(1.096)	257179	48.2740	48.27
6	Bromomethane	94	1.347	1.344	(0.322)	266154	48.4591	48.45
19	Carbon Disulfide	76	2.075	2.075	(0.496)	1671660	94.1671	94.16
34	Carbon Tetrachloride	117	4.268	4.268	(0.859)	466337	45.8974	45.89
59	Chlorobenzene	112	7.694	7.694	(1.003)	1006409	48.2555	48.25
7	Chloroethane	64	1.411	1.407	(0.337)	237277	46.0533	46.05
28	Chloroform	83	3.911	3.911	(0.935)	637932	47.0823	47.08
3	Chloromethane	50	1.085	1.085	(0.259)	356275	47.9064	47.90
27	cis-1,2-Dichloroethene	96	3.529	3.529	(0.843)	386717	48.4238	48.42
46	cis-1,3-Dichloropropene	75	6.157	6.157	(1.239)	612279	50.1068	50.10
55	Dibromochloromethane	129	7.177	7.176	(0.936)	406162	49.7511	49.75
44	Dibromomethane	93	5.553	5.553	(1.118)	234821	48.2731	48.27
2	Dichlorodifluoromethane	85	0.976	0.976	(0.233)	375605	49.0784	49.07
61	Ethylbenzene	106	7.803	7.802	(1.017)	511365	48.5367	48.53
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	238144	51.0844	51.08
67	Isopropylbenzene	105	8.564	8.563	(1.116)	1527409	48.2102	48.21
62	m,p-Xylenes	106	7.908	7.907	(1.031)	1298578	99.0935	99.09
17	Methylene Chloride	84	2.311	2.307	(0.552)	354520	47.9623	47.96
87	n-Butylbenzene	91	9.995	9.995	(1.035)	1136334	50.5879	50.58
73	n-Propylbenzene	91	8.912	8.916	(0.922)	1768242	48.3643	48.36
92	Naphthalene	128	11.544	11.544	(1.195)	334786	59.2863	59.28
63	o-Xylene	106	8.245	8.245	(1.075)	614343	48.2233	48.22
81	sec-Butylbenzene	105	9.523	9.523	(0.986)	1490865	47.7190	47.71
64	Styrene	104	8.260	8.260	(1.077)	1058982	50.4779	50.47
78	tert-Butylbenzene	119	9.336	9.339	(0.966)	1080631	47.3631	47.36
56	Tetrachloroethene	164	6.929	6.929	(0.903)	336020	47.1110	47.11
50	Toluene	91	6.449	6.449	(0.841)	1460598	47.2387	47.23
20	trans-1,2-Dichloroethene	96	2.536	2.532	(0.606)	332737	47.0862	47.08
51	trans-1,3-Dichloropropene	75	6.682	6.682	(1.345)	513764	50.7687	50.76
38	Trichloroethene	130	5.208	5.208	(1.048)	394013	47.6543	47.65
8	Trichlorofluoromethane	101	1.565	1.565	(0.374)	594796	47.0222	47.02
5	Vinyl Chloride	62	1.149	1.149	(0.275)	384663	45.6676	45.66

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071915.D
Date : 19-JUL-2022 16:20
Client ID: ICV
Sample Info: CCV;CCV;2;;ICV
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

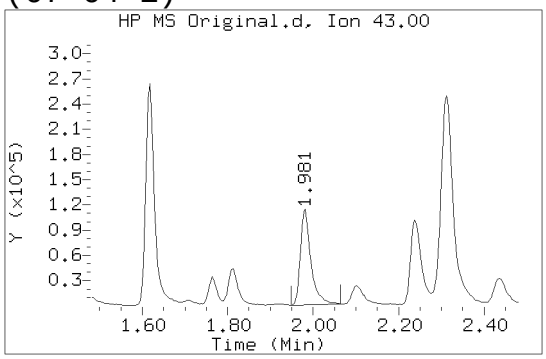
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220719.b\X071915.D
Inj Date : 19-JUL-2022 16:20
InstruID : voa6.i
LabSampID : ICV

Acetone (67-64-1)

Reason Code:

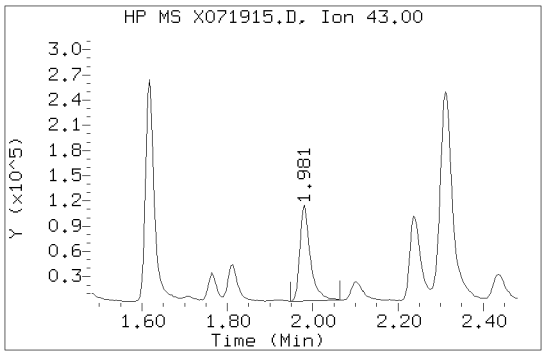
BEFORE

MASS
62
AREA
384663
HEIGHT
343232
25-Jul-2022
09:00
linh
pham



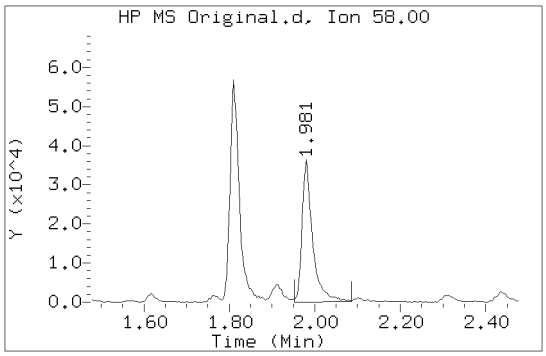
AFTER

MASS
43
AREA
197688
HEIGHT
114035
08-Sep-2022
12:20
linh
pham



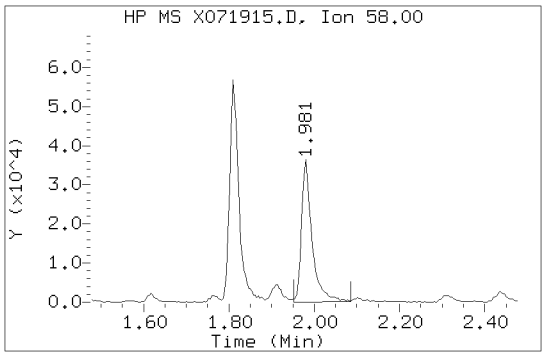
BEFORE

MASS
64
AREA
124297
HEIGHT
107814
25-Jul-2022
09:00
linh
pham



AFTER

MASS
58
AREA
63852
HEIGHT
36330
08-Sep-2022
12:20
linh
pham



right solutions.
right partner.

Raw Data VOA6 415491

Workorder

HS22080933

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

09/09/2022

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081901.D Page 1
Report Date: 19-Aug-2022 22:34

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081901.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 19-AUG-2022 10:35
Operator : PC Inst ID: voa6.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\bfb.m
Meth Date : 26-Jul-2022 15:17 Linh.Pham Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7051

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
8.691	8.889	(0.000)	95	132736			0.00- 100.00	100.00
8.691	8.889	(0.000)	50	25808			15.00- 40.00	19.44
8.691	8.889	(0.000)	75	65952			30.00- 60.00	49.69
8.691	8.889	(0.000)	96	8885			5.00- 9.00	6.69
8.691	8.889	(0.000)	173	941			0.00- 2.00	0.82
8.691	8.889	(0.000)	174	114136			50.00- 0.00	85.99
8.691	8.889	(0.000)	175	8763			5.00- 9.00	7.68
8.691	8.889	(0.000)	176	108864			95.00- 101.00	95.38
8.691	8.889	(0.000)	177	8011			5.00- 9.00	7.36

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.44
75	30.00 - 60.00% of mass 95	49.69
96	5.00 - 9.00% of mass 95	6.69
173	Less than 2.00% of mass 174	0.71 (0.82)
174	Greater than 50.00% of mass 95	85.99
175	5.00 - 9.00% of mass 174	6.60 (7.68)
176	95.00 - 101.00% of mass 174	82.02 (95.38)
177	5.00 - 9.00% of mass 176	6.04 (7.36)

Data File: X081901.D
Spectrum: Scan 2160 (8.68)
Location of Maximum: 95.00
Number of points: 116

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	1285	69.00	14632	103.00	65	144.90	123
37.10	7193	70.00	1966	103.90	569	145.70	178
38.00	6255	71.00	331	105.10	457	147.90	357
39.10	3818	72.00	729	105.90	820	149.80	339
39.90	959	73.00	6536	106.80	349	151.80	68
41.00	1556	74.00	23328	108.80	90	152.70	73
42.10	1865	75.00	65952	109.90	144	153.90	93
43.10	947	76.00	6058	110.70	86	154.90	403
44.00	1166	77.00	1204	112.00	75	156.00	61
45.00	1267	78.00	615	113.00	82	157.00	541
47.00	1205	78.90	4230	114.90	248	157.90	81
48.00	687	79.90	1460	115.90	463	158.90	94
49.00	5840	80.90	4433	116.80	1015	160.90	195
50.00	25808	81.90	797	117.80	393	170.00	118
51.10	8334	83.00	359	118.90	732	172.90	941
52.00	530	84.10	168	120.10	112	173.90	114136
53.10	185	85.10	146	126.10	87	174.90	8763
54.00	208	86.00	292	126.90	100	175.90	108864
55.00	3315	87.00	4891	127.80	677	176.90	8011
56.00	2505	88.00	5570	128.90	305	177.90	253
57.10	4028	89.10	147	129.80	478	185.90	430
58.10	480	90.90	633	131.00	211	187.20	69
60.00	1297	92.00	4123	134.80	366	190.90	50
61.10	6765	92.90	5397	136.90	149	261.90	61
62.00	6662	94.00	14909	138.80	67	263.00	57
63.00	4710	95.00	132736	139.80	70	278.30	107
63.90	651	96.00	8885	140.90	1160		
66.00	165	97.00	237	142.10	125		
67.00	416	98.00	1456	142.90	1037		
68.00	13242	99.10	209	143.80	105		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081901.D Page 1

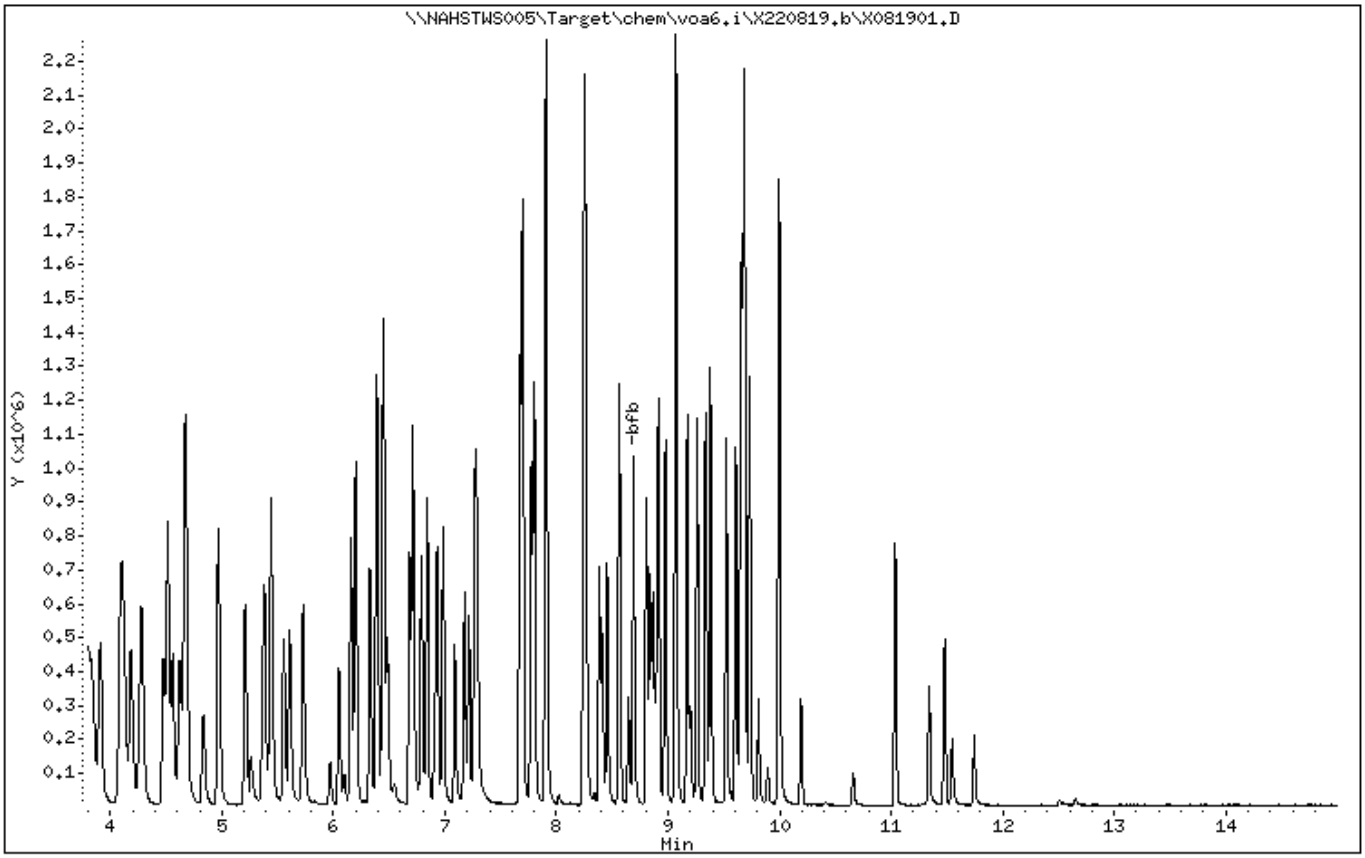
Date : 19-AUG-2022 10:35

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081901.D Page 2

Date : 19-AUG-2022 10:35

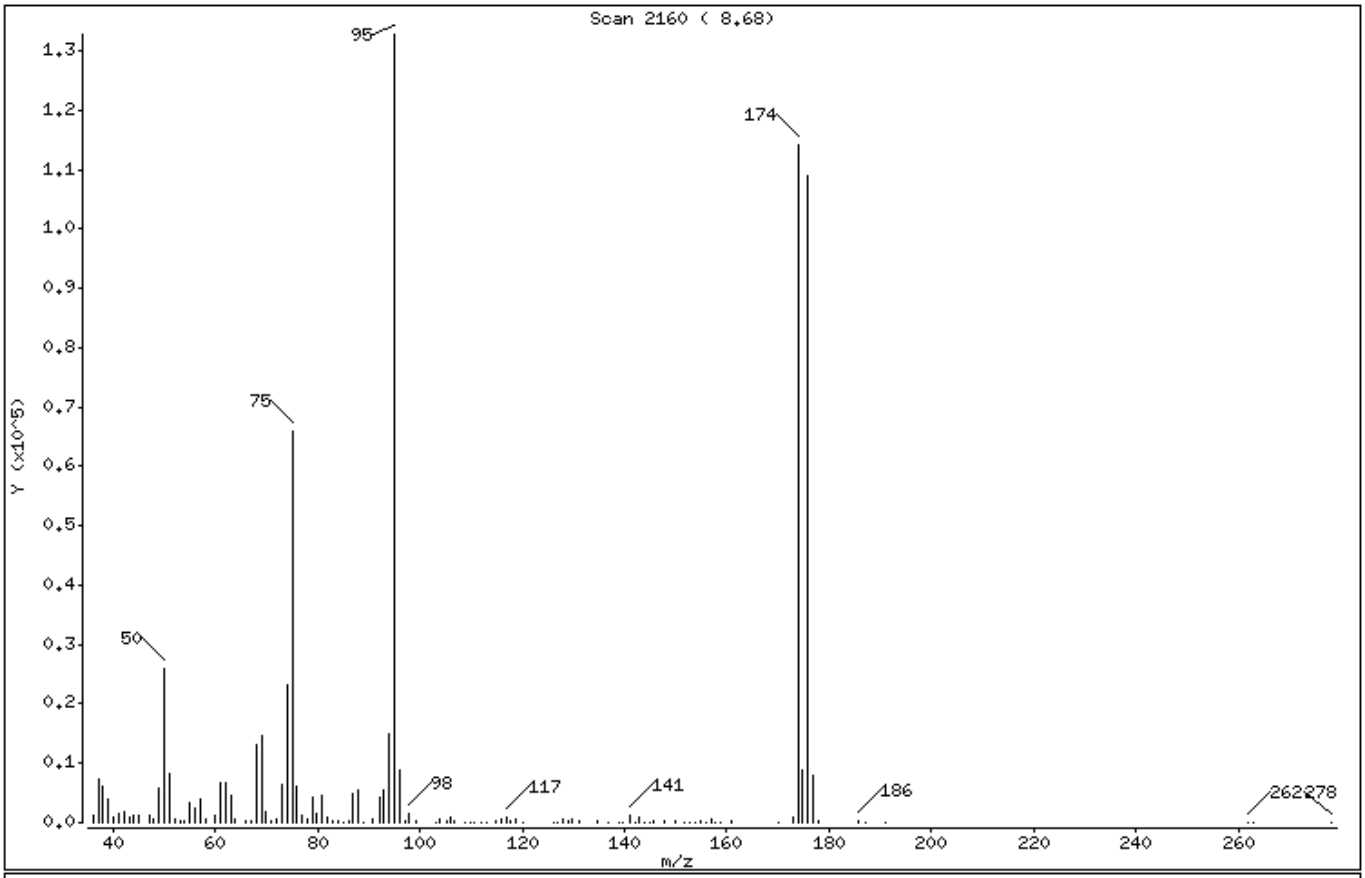
Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.44
75	30.00 - 60.00% of mass 95	49.69
96	5.00 - 9.00% of mass 95	6.69
173	Less than 2.00% of mass 174	0.71 (0.82)
174	Greater than 50.00% of mass 95	85.99
175	5.00 - 9.00% of mass 174	6.60 (7.68)
176	95.00 - 101.00% of mass 174	82.02 (95.38)
177	5.00 - 9.00% of mass 176	6.04 (7.36)

Date : 19-AUG-2022 10:35

Client ID: BFB Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: PC

Column phase: DB624 Column diameter: 0.25

Data File: X081901.D
Spectrum: Scan 2160 (8.68)
Location of Maximum: 95.00
Number of points: 116

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	1285	69.00	14632	103.00	65	144.90	123
37.10	7193	70.00	1966	103.90	569	145.70	178
38.00	6255	71.00	331	105.10	457	147.90	357
39.10	3818	72.00	729	105.90	820	149.80	339
39.90	959	73.00	6536	106.80	349	151.80	68
41.00	1556	74.00	23328	108.80	90	152.70	73
42.10	1865	75.00	65952	109.90	144	153.90	93
43.10	947	76.00	6058	110.70	86	154.90	403
44.00	1166	77.00	1204	112.00	75	156.00	61
45.00	1267	78.00	615	113.00	82	157.00	541
47.00	1205	78.90	4230	114.90	248	157.90	81
48.00	687	79.90	1460	115.90	463	158.90	94
49.00	5840	80.90	4433	116.80	1015	160.90	195
50.00	25808	81.90	797	117.80	393	170.00	118
51.10	8334	83.00	359	118.90	732	172.90	941
52.00	530	84.10	168	120.10	112	173.90	114136
53.10	185	85.10	146	126.10	87	174.90	8763
54.00	208	86.00	292	126.90	100	175.90	108864
55.00	3315	87.00	4891	127.80	677	176.90	8011
56.00	2505	88.00	5570	128.90	305	177.90	253
57.10	4028	89.10	147	129.80	478	185.90	430
58.10	480	90.90	633	131.00	211	187.20	69
60.00	1297	92.00	4123	134.80	366	190.90	50
61.10	6765	92.90	5397	136.90	149	261.90	61
62.00	6662	94.00	14909	138.80	67	263.00	57
63.00	4710	95.00	132736	139.80	70	278.30	107
63.90	651	96.00	8885	140.90	1160		
66.00	165	97.00	237	142.10	125		
67.00	416	98.00	1456	142.90	1037		
68.00	13242	99.10	209	143.80	105		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081903.D Page 1
Report Date: 08-Sep-2022 12:27

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081903.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 19-AUG-2022 11:17
Operator : PC Inst ID: voa6.i
Smp Info : CCV;CCV;2;;
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\8260W.m
Meth Date : 08-Sep-2022 12:27 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

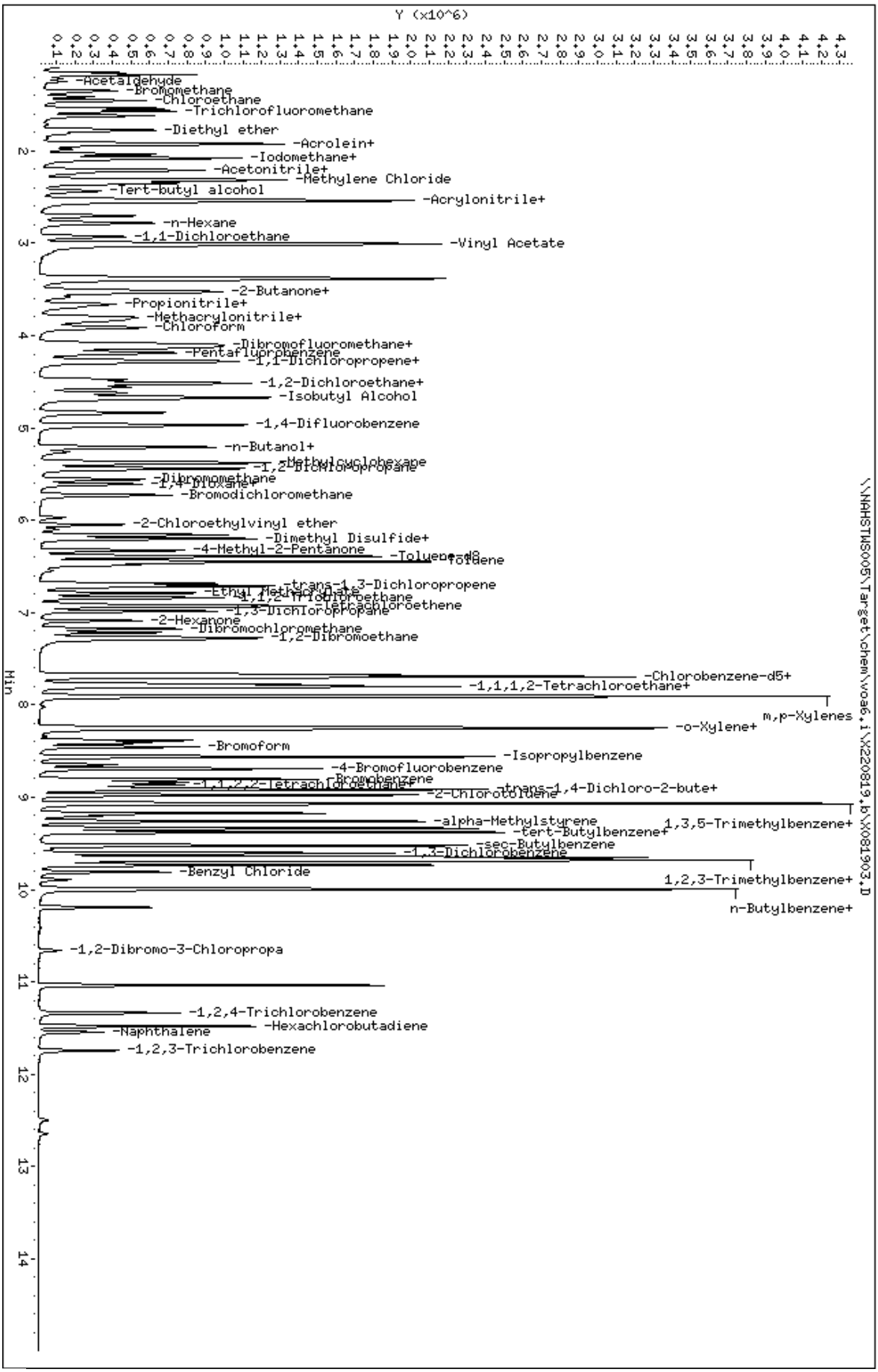
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.189	4.189	(1.000)	622775	50.0000	
* 36 1,4-Difluorobenzene	114	4.968	4.968	(1.000)	928349	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	852660	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	426129	50.0000	
$ 30 Dibromofluoromethane	113	4.102	4.102	(0.979)	308879	50.0000	52.59
$ 35 1,2-Dichloroethane-d4	65	4.477	4.477	(1.069)	346687	50.0000	53.88
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1096306	50.0000	51.53
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	403315	50.0000	53.05
60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	314252	50.0000	52.45
31 1,1,1-Trichloroethane	97	4.087	4.087	(0.976)	441113	50.0000	49.92
68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	307300	50.0000	51.34
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	217640	50.0000	49.64
22 1,1-Dichloroethane	63	2.929	2.929	(0.699)	464362	50.0000	48.43
11 1,1-Dichloroethene	96	1.921	1.921	(0.459)	223695	50.0000	43.02
32 1,1-Dichloropropene	75	4.286	4.286	(0.863)	381681	50.0000	50.94
93 1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	125726	50.0000	56.75
71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	230619	50.0000	49.97(M)
90 1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	217283	50.0000	55.98
79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	1114251	50.0000	54.51
89 1,2-Dibromo-3-Chloropropane	155	10.659	10.659	(1.103)	25688	50.0000	56.49

57	1,2-Dibromoethane	107	7.263	7.263 (0.947)	276936	50.0000	49.82
88	1,2-Dichlorobenzene	146	9.995	9.995 (1.035)	570607	50.0000	53.51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
33	1,2-Dichloroethane	62	4.560	4.560	(0.918)	387629	50.0000	47.60
42	1,2-Dichloropropane	63	5.441	5.441	(1.095)	276164	50.0000	48.33
75	1,3,5-Trimethylbenzene	105	9.069	9.069	(0.939)	1115939	50.0000	53.91
83	1,3-Dichlorobenzene	146	9.605	9.605	(0.994)	633108	50.0000	53.54
54	1,3-Dichloropropane	76	6.981	6.981	(0.910)	443558	50.0000	49.74
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	654565	50.0000	52.14
26	2,2-Dichloropropane	77	3.518	3.518	(0.840)	442991	50.0000	52.03
24	2-Butanone	43	3.585	3.585	(0.856)	160285	100.000	102.59
76	2-Chlorotoluene	91	8.976	8.976	(0.929)	925693	50.0000	50.67
52	2-Hexanone	43	7.086	7.086	(0.924)	300457	100.000	112.06
77	4-Chlorotoluene	91	9.069	9.069	(0.939)	1074056	50.0000	52.68
82	p-Isopropyltoluene	119	9.650	9.650	(0.999)	1173959	50.0000	56.47
45	4-Methyl-2-Pentanone	43	6.329	6.329	(0.825)	452872	100.000	109.00
10	Acetone	43	1.981	1.981	(0.473)	129100	100.000	98.33
37	Benzene	78	4.515	4.515	(0.909)	1042910	50.0000	47.40
74	Bromobenzene	156	8.807	8.807	(0.912)	374495	50.0000	51.46
29	Bromochloromethane	128	3.799	3.799	(0.907)	160872	50.0000	45.81
39	Bromodichloromethane	83	5.729	5.729	(1.153)	388702	50.0000	49.57
66	Bromoform	173	8.410	8.410	(1.096)	206590	50.0000	49.97
6	Bromomethane	94	1.347	1.347	(0.322)	192523	50.0000	45.12
19	Carbon Disulfide	76	2.078	2.078	(0.496)	1276335	100.000	92.73
34	Carbon Tetrachloride	117	4.267	4.267	(0.859)	384413	50.0000	48.00
59	Chlorobenzene	112	7.697	7.697	(1.003)	818409	50.0000	50.62
7	Chloroethane	64	1.411	1.411	(0.337)	176005	50.0000	44.06
28	Chloroform	83	3.911	3.911	(0.934)	511114	50.0000	48.65
3	Chloromethane	50	1.089	1.089	(0.260)	282454	50.0000	48.98
27	cis-1,2-Dichloroethene	96	3.533	3.533	(0.843)	305602	50.0000	49.35
46	cis-1,3-Dichloropropene	75	6.157	6.157	(1.239)	488596	50.0000	50.73
55	Dibromochloromethane	129	7.176	7.176	(0.935)	321487	50.0000	50.79
44	Dibromomethane	93	5.557	5.557	(1.118)	185277	50.0000	48.32
2	Dichlorodifluoromethane	85	0.980	0.980	(0.234)	283688	50.0000	47.80
61	Ethylbenzene	106	7.802	7.802	(1.017)	424822	50.0000	52.01
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	193166	50.0000	53.89
67	Isopropylbenzene	105	8.563	8.563	(1.116)	1333208	50.0000	54.28
62	m,p-Xylenes	106	7.907	7.907	(1.031)	1071155	100.000	105.44
17	Methylene Chloride	84	2.314	2.314	(0.553)	279786	50.0000	48.83
87	n-Butylbenzene	91	9.995	9.995	(1.035)	1028556	50.0000	59.55
73	n-Propylbenzene	91	8.912	8.912	(0.922)	1558191	50.0000	55.42
92	Naphthalene	128	11.544	11.544	(1.195)	252418	50.0000	58.13
63	o-Xylene	106	8.245	8.245	(1.075)	508217	50.0000	51.46
81	sec-Butylbenzene	105	9.523	9.523	(0.986)	1342408	50.0000	55.88
64	Styrene	104	8.260	8.260	(1.077)	863491	50.0000	53.09
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	964364	50.0000	54.97
56	Tetrachloroethene	164	6.929	6.929	(0.903)	272243	50.0000	49.23
50	Toluene	91	6.449	6.449	(0.841)	1179093	50.0000	49.19
20	trans-1,2-Dichloroethene	96	2.536	2.536	(0.605)	268930	50.0000	49.08
51	trans-1,3-Dichloropropene	75	6.685	6.685	(1.346)	413943	50.0000	51.90
38	Trichloroethene	130	5.208	5.208	(1.048)	314207	50.0000	48.21
8	Trichlorofluoromethane	101	1.568	1.568	(0.375)	453010	50.0000	46.19
5	Vinyl Chloride	62	1.152	1.152	(0.275)	290620	50.0000	44.50

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081903.D
Date : 19-AUG-2022 11:17
Client ID: CCV
Sample Info: CCV;CCV;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

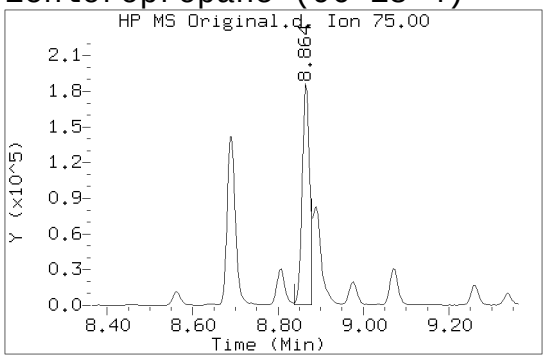
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081903.D
Inj Date : 19-AUG-2022 11:17
InstruID : voa6.i
LabSampID : CCV

1,2,3-Trichloropropane (96-18-4)

Reason Code:

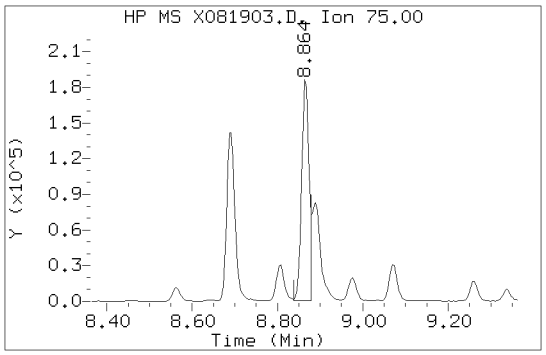
BEFORE

MASS
75
AREA
230619
HEIGHT
185913
08-Sep-2022
12:27
linh
pham



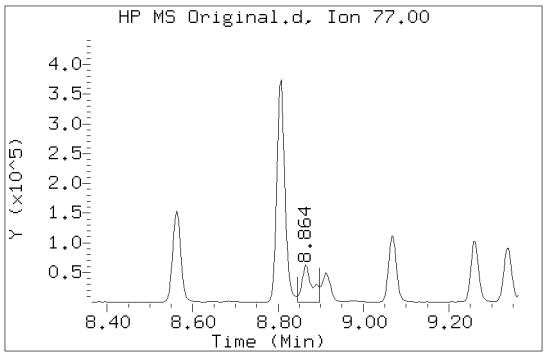
AFTER

MASS
75
AREA
230619
HEIGHT
185913
08-Sep-2022
12:27
linh
pham



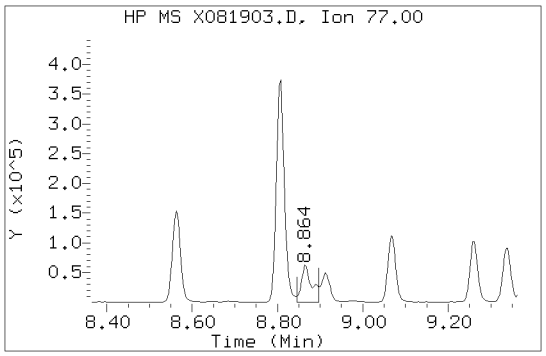
BEFORE

MASS
77
AREA
110916
HEIGHT
62334
08-Sep-2022
12:27
linh
pham



AFTER

MASS
77
AREA
110916
HEIGHT
62334
08-Sep-2022
12:27
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081904.D Page 1
Report Date: 19-Aug-2022 22:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081904.D
Lab Smp Id: CCB Client Smp ID: CCB
Inj Date : 19-AUG-2022 11:38
Operator : PC Inst ID: voa6.i
Smp Info : CCB;CCB;;;
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa6.i\X220819.b\8260W.m
Meth Date : 19-Aug-2022 22:32 pcabasca Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260_GB.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.189	4.189	(1.000)	667126	50.0000	
$ 30 Dibromofluoromethane	113	4.106	4.102	(0.980)	299737	47.5773	47.57
$ 35 1,2-Dichloroethane-d4	65	4.477	4.477	(1.069)	331752	48.1041	48.10
* 36 1,4-Difluorobenzene	114	4.968	4.968	(1.000)	947720	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	823254	50.0000	
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1100875	53.5957	53.59
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	352961	48.0125	48.01
* 70 1,4-Dichlorobenzene-d4	152	9.665	9.662	(1.000)	360049	50.0000	

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081905.D Page 1
Report Date: 08-Sep-2022 12:27

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081905.D
Lab Smp Id: VLCSW-220819 Client Smp ID: VLCSW-220819
Inj Date : 19-AUG-2022 11:59
Operator : PC Inst ID: voa6.i
Smp Info : VLCSW-220819;VLCSW-220819;3;;LCS
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\8260W.m
Meth Date : 08-Sep-2022 12:27 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.189	4.189	(1.000)	601746	50.0000	
* 36 1,4-Difluorobenzene	114	4.968	4.968	(1.000)	892670	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	818800	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.666	9.662	(1.000)	391283	50.0000	
$ 30 Dibromofluoromethane	113	4.103	4.102	(0.979)	300665	52.9915	52.99
$ 35 1,2-Dichloroethane-d4	65	4.477	4.477	(1.069)	328401	52.8239	52.82
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1070211	52.3862	52.38
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	383888	52.5806	52.58
60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	117300	20.3910	20.39
31 1,1,1-Trichloroethane	97	4.091	4.087	(0.977)	166046	19.4515	19.45
68 1,1,2,2-Tetrachloroethane	83	8.841	8.837	(0.915)	109577	19.9396	19.93
53 1,1,2-Trichloroethane	83	6.839	6.839	(0.892)	81797	19.4297	19.42
22 1,1-Dichloroethane	63	2.929	2.929	(0.699)	172385	18.6083	18.60
11 1,1-Dichloroethene	96	1.925	1.921	(0.460)	86756	17.2713	17.27
32 1,1-Dichloropropene	75	4.290	4.286	(0.863)	142497	19.7790	19.77
93 1,2,3-Trichlorobenzene	180	11.746	11.742	(1.215)	41095	20.2029	20.20
71 1,2,3-Trichloropropane	75	8.867	8.863	(0.917)	88369	20.8558	20.85(M)
90 1,2,4-Trichlorobenzene	180	11.341	11.337	(1.173)	69434	19.4831	19.48
79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	406712	21.6697	21.66
89 1,2-Dibromo-3-Chloropropane	155	10.663	10.659	(1.103)	8568	21.4295	21.42

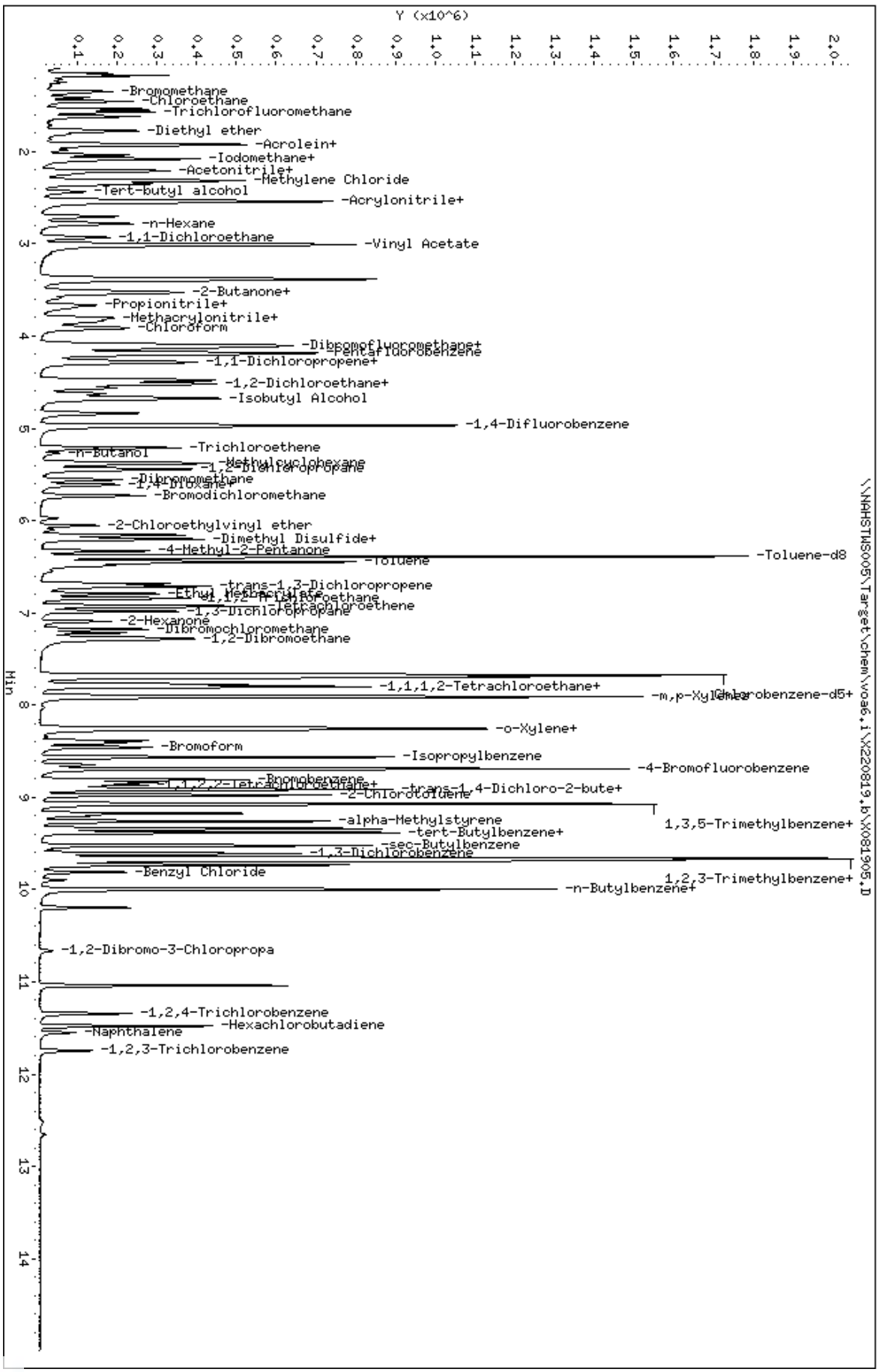
57	1,2-Dibromoethane	107	7.263	7.263 (0.947)	103436	19.3775	19.37
88	1,2-Dichlorobenzene	146	9.995	9.995 (1.034)	205908	21.0310	21.03

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081905.D Page 2
Report Date: 08-Sep-2022 12:27

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
33	1,2-Dichloroethane	62	4.564	4.560	(0.919)	149744	19.1271	19.12
42	1,2-Dichloropropane	63	5.441	5.441	(1.095)	106704	19.4201	19.42
75	1,3,5-Trimethylbenzene	105	9.069	9.069	(0.938)	412817	21.7202	21.72
83	1,3-Dichlorobenzene	146	9.606	9.605	(0.994)	229618	21.1507	21.15
54	1,3-Dichloropropane	76	6.985	6.981	(0.911)	165290	19.3019	19.30
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	241981	20.9954	20.99
26	2,2-Dichloropropane	77	3.514	3.518	(0.839)	163919	19.7738	19.77
24	2-Butanone	43	3.593	3.585	(0.858)	53277	35.2926	35.29
76	2-Chlorotoluene	91	8.976	8.976	(0.929)	344312	20.5292	20.52
52	2-Hexanone	43	7.090	7.086	(0.924)	101607	39.4642	39.46
77	4-Chlorotoluene	91	9.073	9.069	(0.939)	397175	21.2162	21.21
82	p-Isopropyltoluene	119	9.651	9.650	(0.998)	424373	22.2350	22.23
45	4-Methyl-2-Pentanone	43	6.329	6.329	(0.825)	164941	41.3417	41.34
10	Acetone	43	1.985	1.981	(0.474)	47357	33.6092	33.60
37	Benzene	78	4.519	4.515	(0.909)	390781	18.4741	18.47
74	Bromobenzene	156	8.807	8.807	(0.911)	137035	20.5075	20.50
29	Bromochloromethane	128	3.803	3.799	(0.908)	61077	18.0019	18.00
39	Bromodichloromethane	83	5.729	5.729	(1.153)	146850	19.4789	19.47
66	Bromoform	173	8.413	8.410	(1.097)	72503	19.0484	19.04
6	Bromomethane	94	1.351	1.347	(0.323)	76968	17.8654	17.86
19	Carbon Disulfide	76	2.078	2.078	(0.496)	474609	35.6895	35.68
34	Carbon Tetrachloride	117	4.267	4.267	(0.859)	141497	18.3760	18.37
59	Chlorobenzene	112	7.694	7.697	(1.003)	312919	20.1554	20.15
7	Chloroethane	64	1.411	1.411	(0.337)	67043	17.3705	17.37
28	Chloroform	83	3.911	3.911	(0.934)	196048	19.3152	19.31
3	Chloromethane	50	1.089	1.089	(0.260)	106481	19.1447	19.14
27	cis-1,2-Dichloroethene	96	3.536	3.533	(0.844)	114356	19.1152	19.11
46	cis-1,3-Dichloropropene	75	6.157	6.157	(1.239)	181865	19.6387	19.63
55	Dibromochloromethane	129	7.176	7.176	(0.936)	117656	19.3600	19.36
44	Dibromomethane	93	5.557	5.557	(1.118)	68784	18.6583	18.65
2	Dichlorodifluoromethane	85	0.980	0.980	(0.234)	106537	18.4751	18.47
61	Ethylbenzene	106	7.802	7.802	(1.017)	159328	20.3151	20.31
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	71686	21.7804	21.78
67	Isopropylbenzene	105	8.563	8.563	(1.116)	493271	20.9149	20.91
62	m,p-Xylenes	106	7.907	7.907	(1.031)	401490	41.1566	41.15
17	Methylene Chloride	84	2.311	2.314	(0.552)	112613	19.8341	19.83
87	n-Butylbenzene	91	9.995	9.995	(1.034)	360510	22.7322	22.73
73	n-Propylbenzene	91	8.916	8.912	(0.922)	573044	22.2001	22.20
92	Naphthalene	128	11.551	11.544	(1.195)	81526	20.4488	20.44
63	o-Xylene	106	8.245	8.245	(1.075)	190590	20.0971	20.09
81	sec-Butylbenzene	105	9.523	9.523	(0.985)	491667	22.2899	22.28
64	Styrene	104	8.264	8.260	(1.077)	317934	20.3581	20.35
78	tert-Butylbenzene	119	9.339	9.336	(0.966)	348431	21.6303	21.63
56	Tetrachloroethene	164	6.929	6.929	(0.903)	102980	19.3954	19.39
50	Toluene	91	6.449	6.449	(0.841)	450904	19.5902	19.59
20	trans-1,2-Dichloroethene	96	2.539	2.536	(0.606)	100286	18.9446	18.94
51	trans-1,3-Dichloropropene	75	6.685	6.685	(1.346)	151066	19.6977	19.69
38	Trichloroethene	130	5.212	5.208	(1.049)	119064	19.0015	19.00
8	Trichlorofluoromethane	101	1.568	1.568	(0.375)	171632	18.1128	18.11
5	Vinyl Chloride	62	1.152	1.152	(0.275)	108509	17.1968	17.19

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081905.D
Date : 19-AUG-2022 11:59
Client ID: VLCSW-220819
Sample Info: VLCSW-220819;VLCSW-220819;3;;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

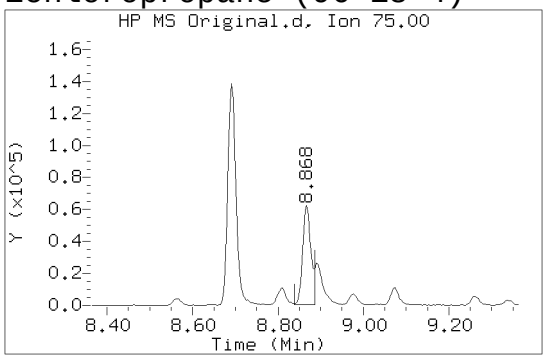
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081905.D
Inj Date : 19-AUG-2022 11:59
InstruID : voa6.i
LabSampID : VLCSW-220819

1,2,3-Trichloropropane (96-18-4)

Reason Code:

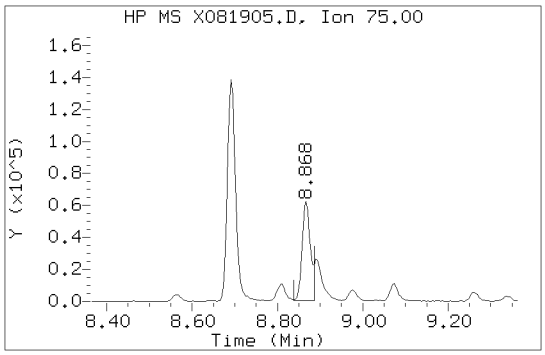
BEFORE

MASS
75
AREA
88369
HEIGHT
62093
08-Sep-2022
12:27
linh
pham



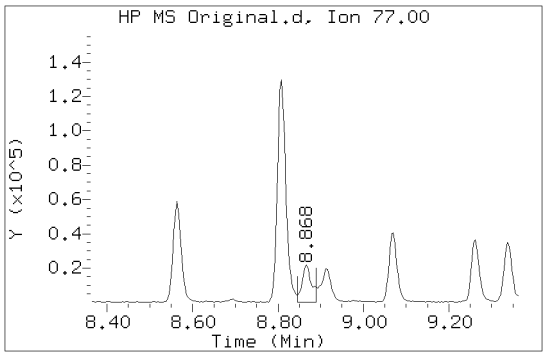
AFTER

MASS
75
AREA
88369
HEIGHT
62093
08-Sep-2022
12:27
linh
pham



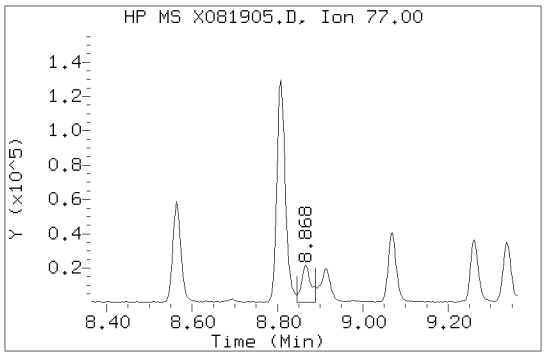
BEFORE

MASS
77
AREA
34934
HEIGHT
21710
08-Sep-2022
12:27
linh
pham



AFTER

MASS
77
AREA
34934
HEIGHT
21710
08-Sep-2022
12:27
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081907.D Page 1
Report Date: 08-Sep-2022 12:27

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081907.D
Lab Smp Id: VBLKW-220819 Client Smp ID: VBLKW-220819
Inj Date : 19-AUG-2022 12:41
Operator : PC Inst ID: voa6.i
Smp Info : VBLKW-220819;VBLKW-220819;3;;BLANK
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\8260W.m
Meth Date : 08-Sep-2022 12:27 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.185	4.189	(1.000)	644792	50.0000	
* 36 1,4-Difluorobenzene	114	4.968	4.968	(1.000)	929319	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	819045	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.665	9.662	(1.000)	368319	50.0000	
$ 30 Dibromofluoromethane	113	4.102	4.102	(0.980)	292176	47.9897	47.98
$ 35 1,2-Dichloroethane-d4	65	4.477	4.477	(1.070)	324034	48.6159	48.61
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1081511	52.9235	52.92
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	353463	48.3333	48.33

01141261

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081907.D

Page 1

Date : 19-AUG-2022 12:41

Client ID: VBLKW-220819

Instrument: voa6.i

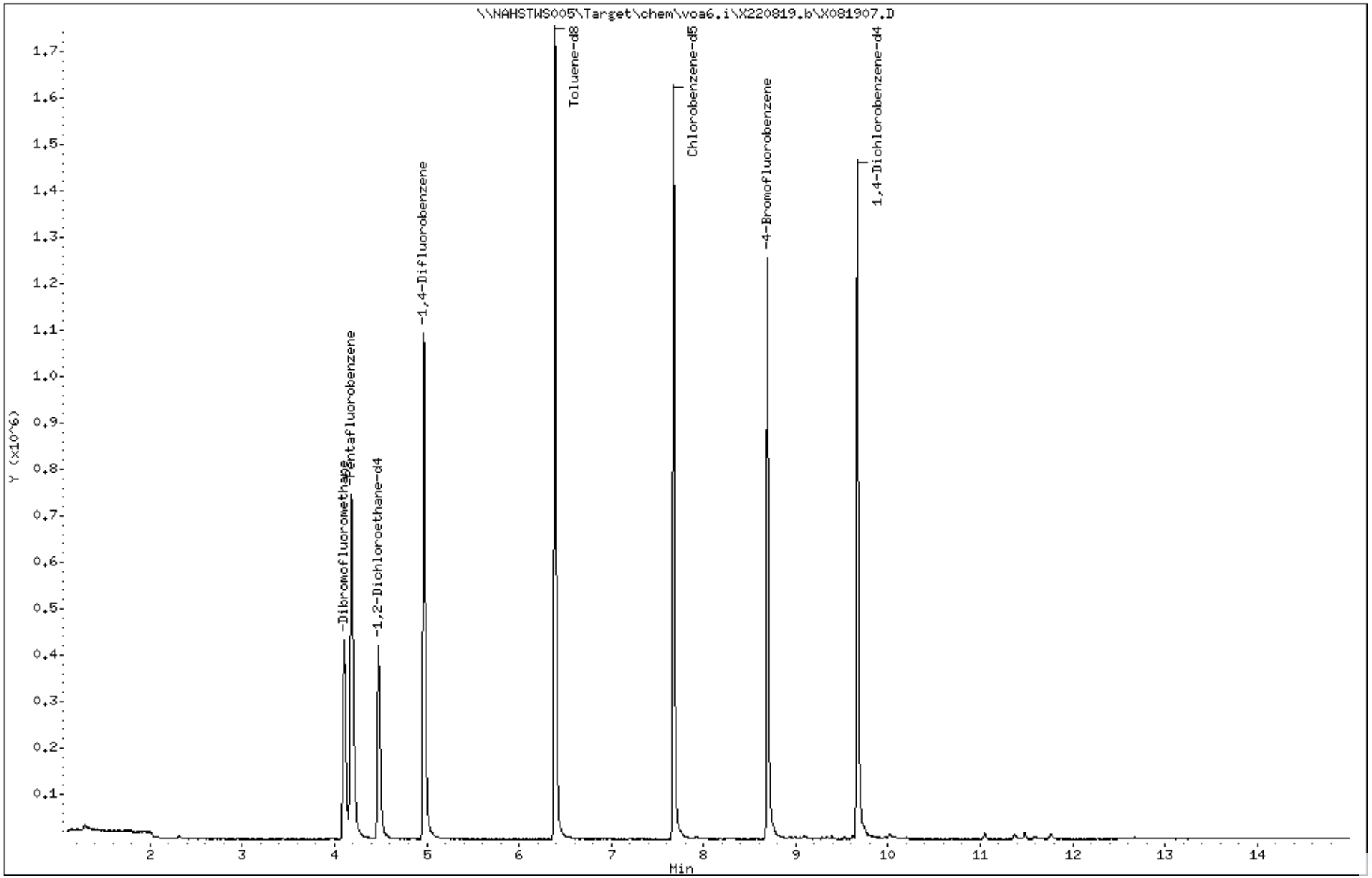
Sample Info: VBLKW-220819;VBLKW-220819;3;;BLANK

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081907.D
Inj Date : 19-AUG-2022 12:41
InstruID : voa6.i
LabSampID : VBLKW-220819

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081908.D Page 1
Report Date: 08-Sep-2022 13:26

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081908.D
Lab Smp Id: HS22080933-09 Client Smp ID: HS22080933-09
Inj Date : 19-AUG-2022 13:02
Operator : PC Inst ID: voa6.i
Smp Info : HS22080933-09;HS22080933-09;;;
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\8260W.m
Meth Date : 08-Sep-2022 12:28 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.189	4.185	(1.000)	627318	50.0000	
* 36 1,4-Difluorobenzene	114	4.968	4.972	(1.000)	902057	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	785287	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.665	9.666	(1.000)	330834	50.0000	
$ 30 Dibromofluoromethane	113	4.106	4.106	(0.980)	282785	47.7373	47.73
$ 35 1,2-Dichloroethane-d4	65	4.477	4.474	(1.069)	307522	47.4156	47.41
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1046654	53.4196	53.41
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	326242	46.4979	46.49

01141264

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081908.D

Page 1

Date : 19-AUG-2022 13:02

Client ID: HS22080933-09

Instrument: voa6.i

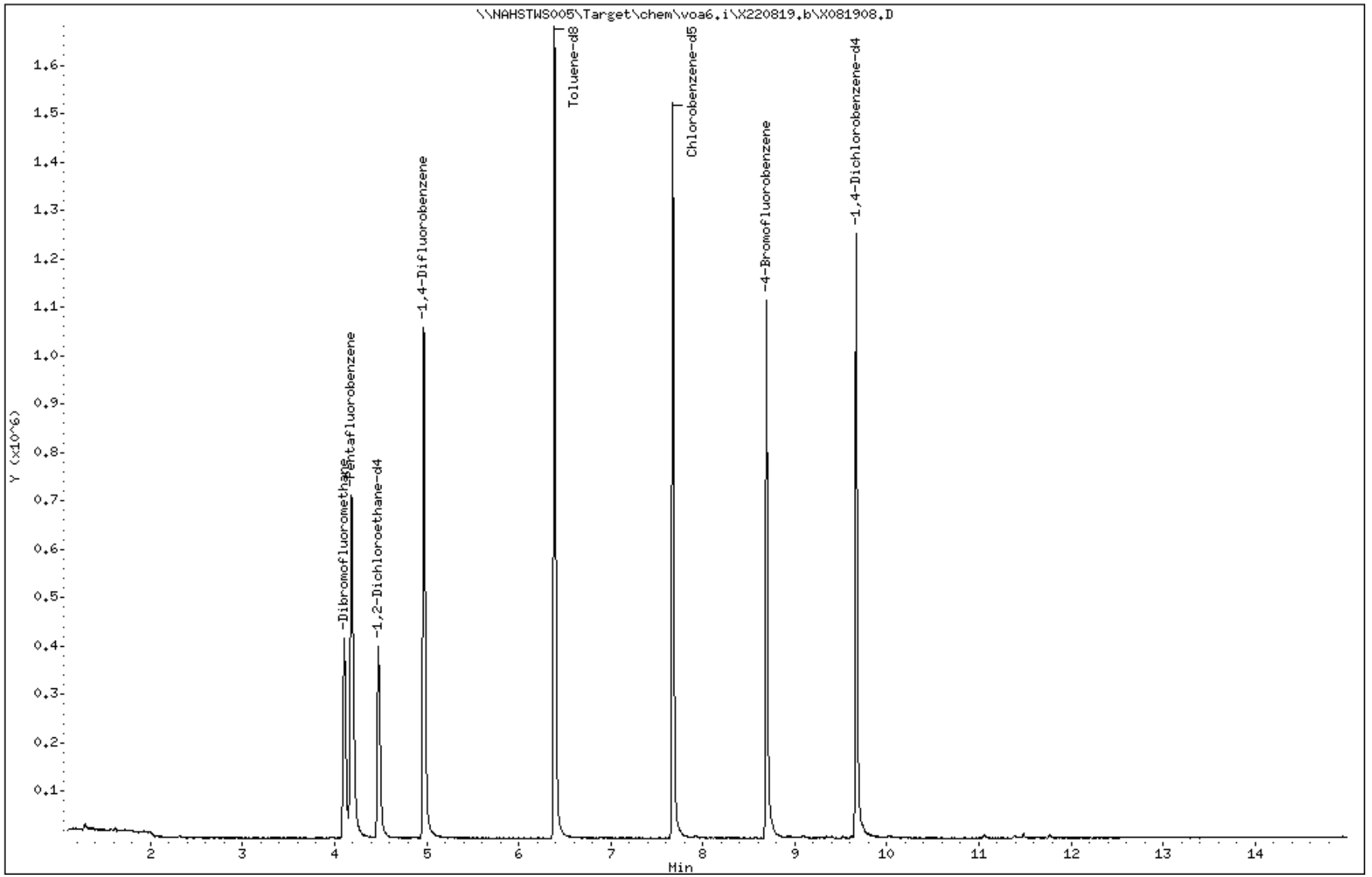
Sample Info: HS22080933-09;HS22080933-09;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081908.D
Inj Date : 19-AUG-2022 13:02
InstruID : voa6.i
LabSampID : HS22080933-09

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081909.D Page 1
Report Date: 08-Sep-2022 13:26

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081909.D
Lab Smp Id: HS22080933-08 Client Smp ID: HS22080933-08
Inj Date : 19-AUG-2022 13:23
Operator : PC Inst ID: voa6.i
Smp Info : HS22080933-08;HS22080933-08;;;
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\8260W.m
Meth Date : 08-Sep-2022 12:28 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.189	4.185	(1.000)	633449	50.0000	
* 36 1,4-Difluorobenzene	114	4.968	4.972	(1.000)	895717	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	790731	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.665	9.666	(1.000)	344321	50.0000	
$ 30 Dibromofluoromethane	113	4.106	4.106	(0.980)	282103	47.1525	47.15
$ 35 1,2-Dichloroethane-d4	65	4.477	4.474	(1.069)	312826	47.7690	47.76
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1049356	53.1887	53.18
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	337082	47.7337	47.73

01141267

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081909.D

Date : 19-AUG-2022 13:23

Client ID: HS22080933-08

Instrument: voa6.i

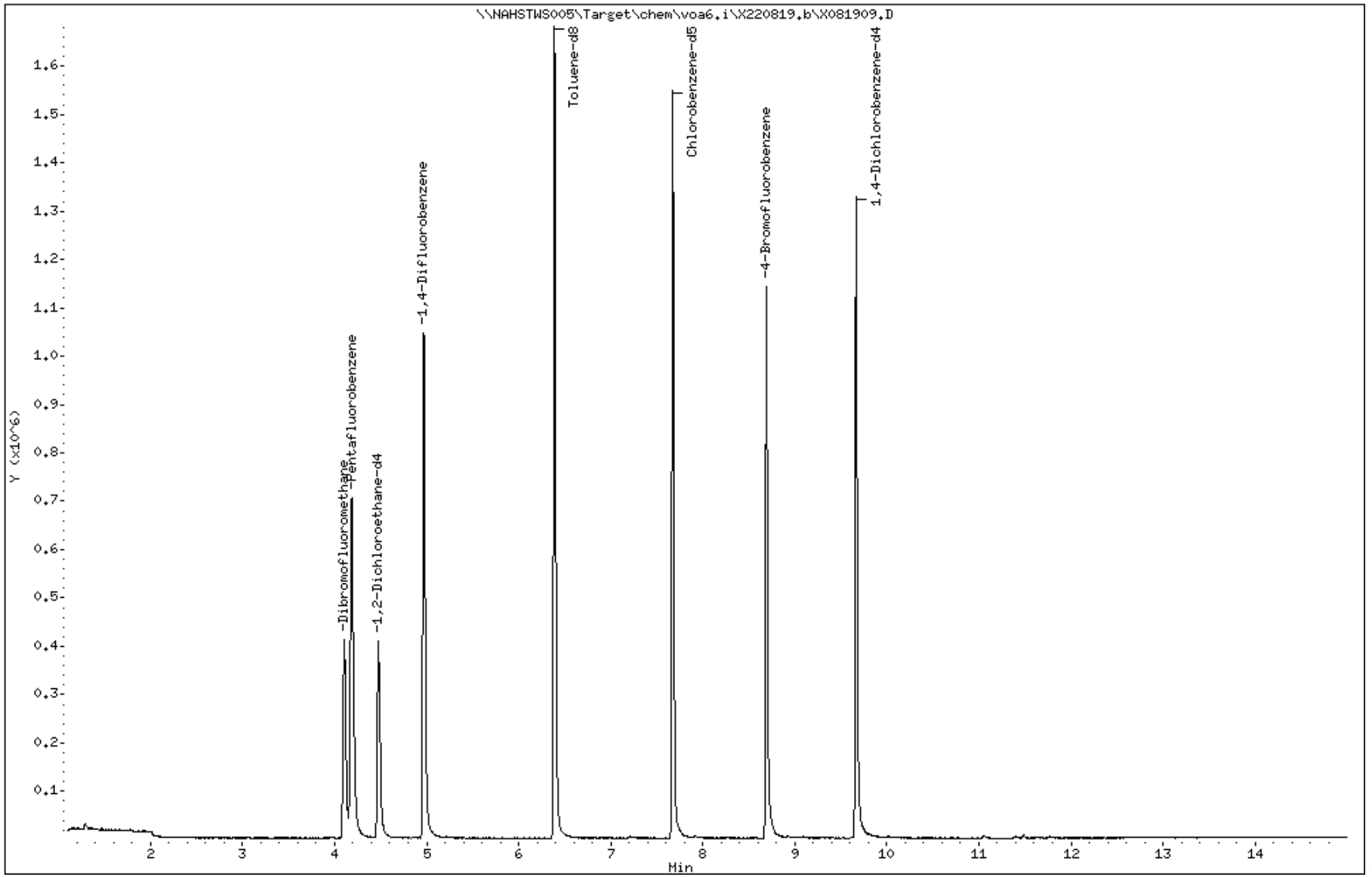
Sample Info: HS22080933-08;HS22080933-08;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081909.D
Inj Date : 19-AUG-2022 13:23
InstruID : voa6.i
LabSampID : HS22080933-08

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081910.D Page 1
Report Date: 08-Sep-2022 13:26

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081910.D
Lab Smp Id: HS22080933-07 Client Smp ID: HS22080933-07
Inj Date : 19-AUG-2022 13:44
Operator : PC Inst ID: voa6.i
Smp Info : HS22080933-07;HS22080933-07;;;
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\8260W.m
Meth Date : 08-Sep-2022 12:28 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.189	4.185	(1.000)	618516	50.0000	
* 36 1,4-Difluorobenzene	114	4.969	4.972	(1.000)	879877	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	757411	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.666	9.666	(1.000)	338427	50.0000	
$ 30 Dibromofluoromethane	113	4.106	4.106	(0.980)	277542	47.5156	47.51
$ 35 1,2-Dichloroethane-d4	65	4.477	4.474	(1.069)	306648	47.9575	47.95
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1019708	53.9597	53.95
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	323858	47.8811	47.88
38 Trichloroethene	130	5.220	5.208	(1.051)	8965	1.45153	1.45(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01141270

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081910.D

Date : 19-AUG-2022 13:44

Client ID: HS22080933-07

Instrument: voa6.i

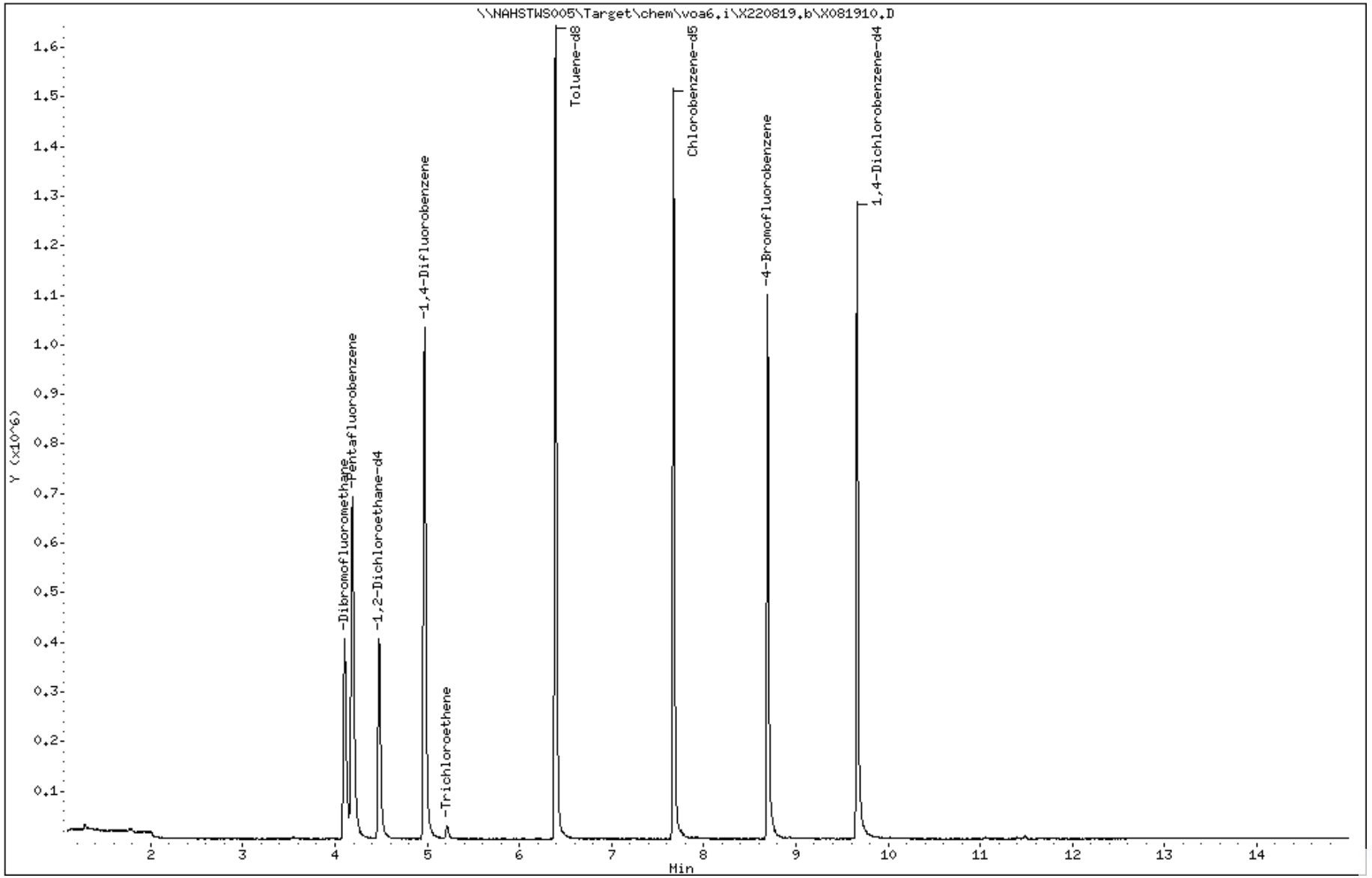
Sample Info: HS22080933-07;HS22080933-07;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081910.D

Date : 19-AUG-2022 13:44

Client ID: HS22080933-07

Instrument: voa6.i

Sample Info: HS22080933-07;HS22080933-07;;;

Purge Volume: 5.0

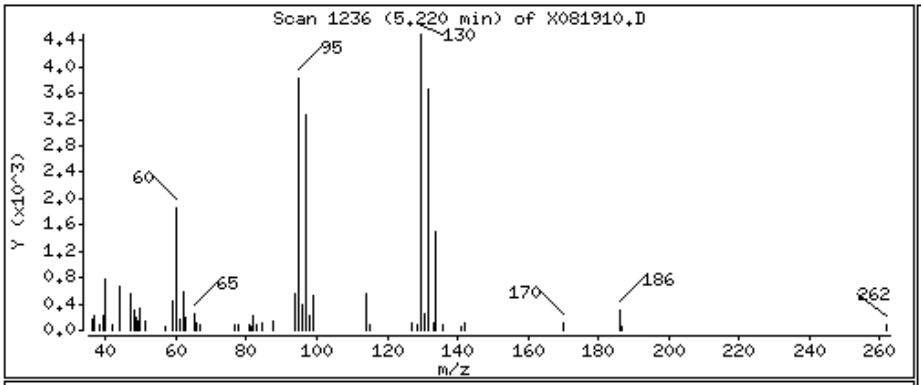
Operator: PC

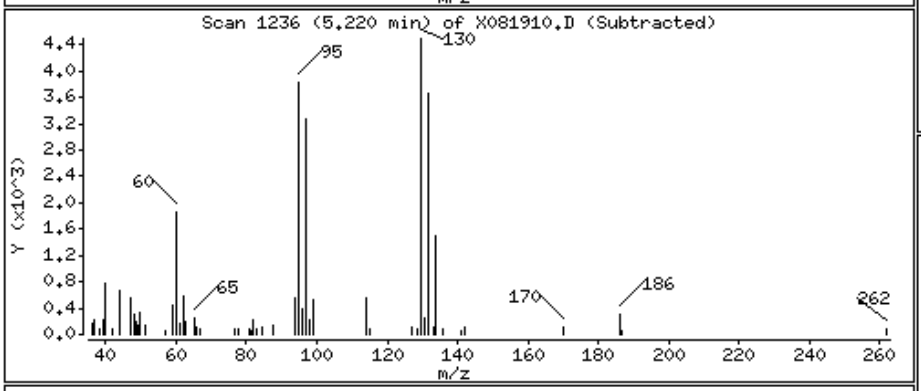
Column phase: DB624

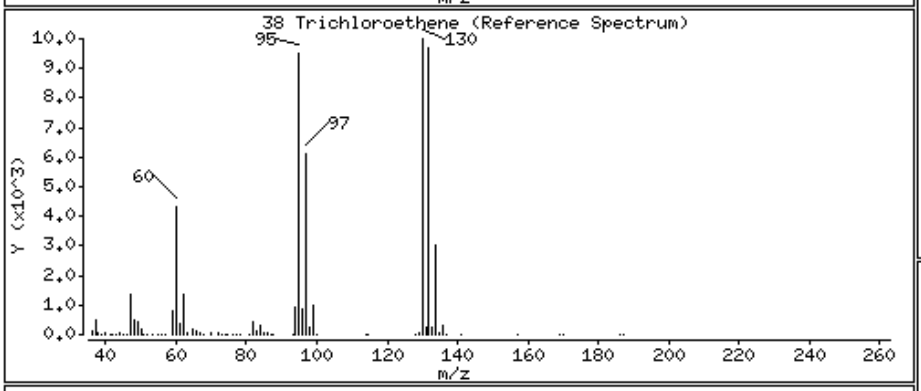
Column diameter: 0.18

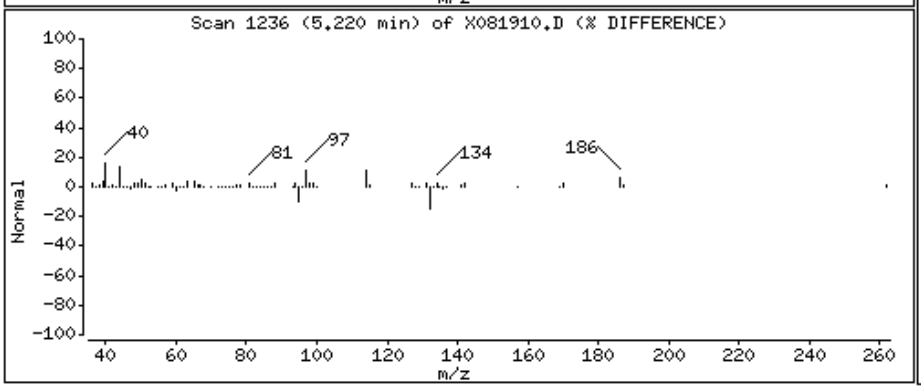
38 Trichloroethene

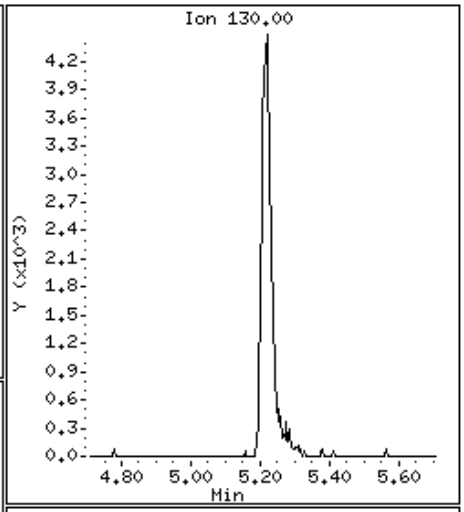
Concentration: 1.45 ug/l

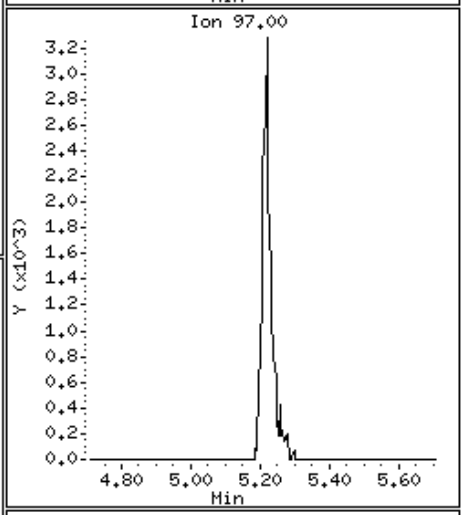


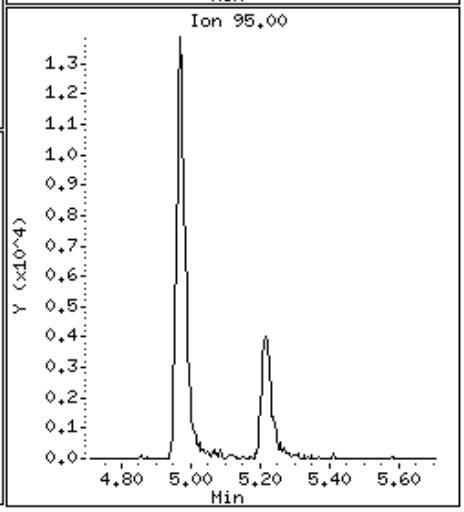












Data File : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081910.D
Inj Date : 19-AUG-2022 13:44
InstruID : voa6.i
LabSampID : HS22080933-07

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081911.D Page 1
Report Date: 08-Sep-2022 13:26

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081911.D
Lab Smp Id: HS22080933-01 Client Smp ID: HS22080933-01
Inj Date : 19-AUG-2022 14:05
Operator : PC Inst ID: voa6.i
Smp Info : HS22080933-01;HS22080933-01;;;
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\8260W.m
Meth Date : 08-Sep-2022 12:28 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.189	4.185	(1.000)	612975	50.0000	
* 36 1,4-Difluorobenzene	114	4.972	4.972	(1.000)	878095	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	767550	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.665	9.666	(1.000)	332585	50.0000	
$ 30 Dibromofluoromethane	113	4.106	4.106	(0.980)	278887	48.1876	48.18
$ 35 1,2-Dichloroethane-d4	65	4.477	4.474	(1.069)	303906	47.9583	47.95
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1030142	53.7918	53.79
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	330034	48.1543	48.15
37 Benzene	78	4.522	4.515	(0.910)	26919	1.29372	1.29(a)
27 cis-1,2-Dichloroethene	96	3.536	3.533	(0.844)	228442	37.4857	37.48
20 trans-1,2-Dichloroethene	96	2.551	2.539	(0.609)	5601	1.03868	1.03(a)
38 Trichloroethene	130	5.212	5.208	(1.048)	20973	3.40266	3.40(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01141274

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081911.D

Date : 19-AUG-2022 14:05

Client ID: HS22080933-01

Instrument: voa6.i

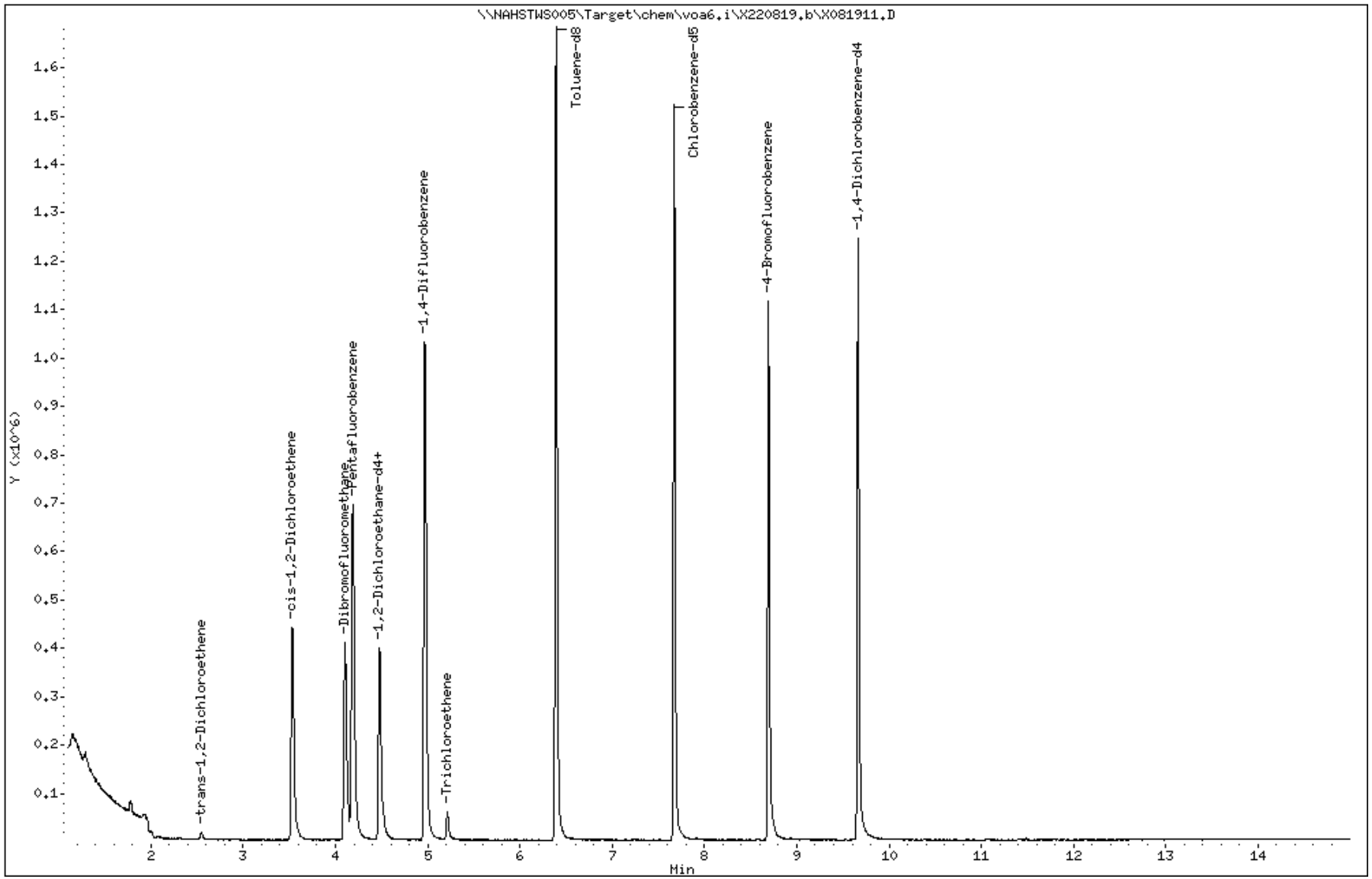
Sample Info: HS22080933-01;HS22080933-01;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081911.D

Date : 19-AUG-2022 14:05

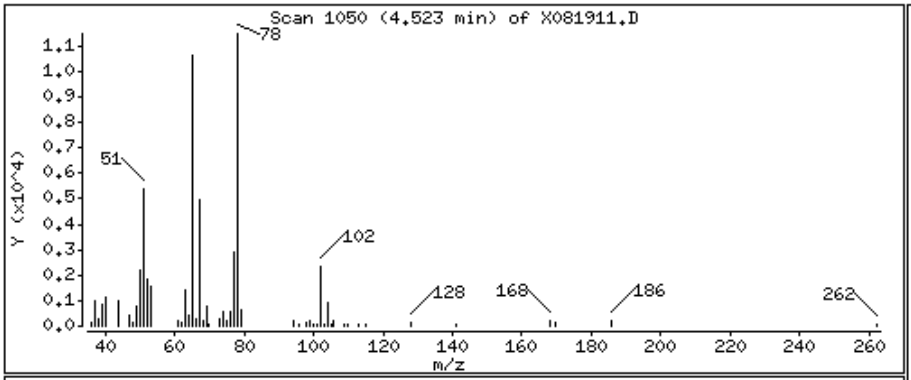
Client ID: HS22080933-01 Instrument: voa6.i

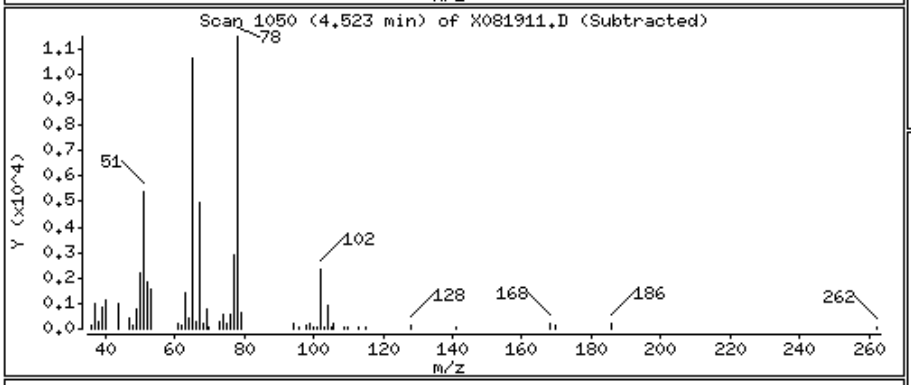
Sample Info: HS22080933-01;HS22080933-01;;;

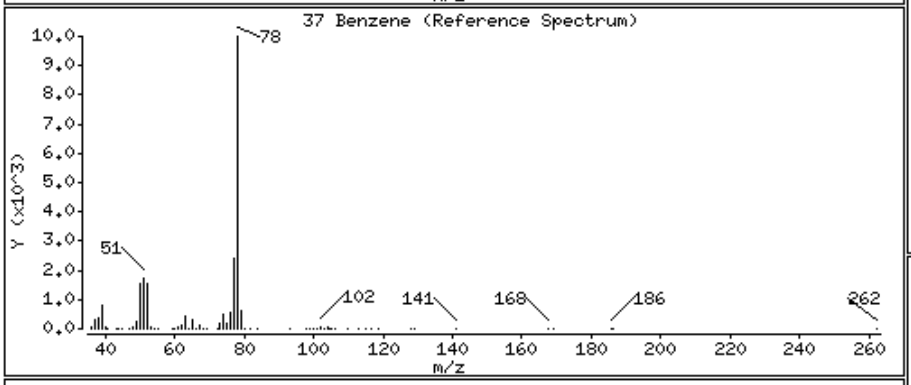
Purge Volume: 5.0 Operator: PC

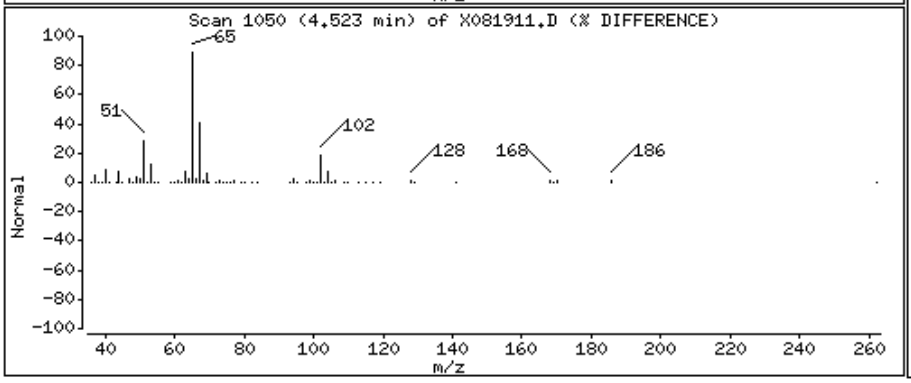
Column phase: DB624 Column diameter: 0.18

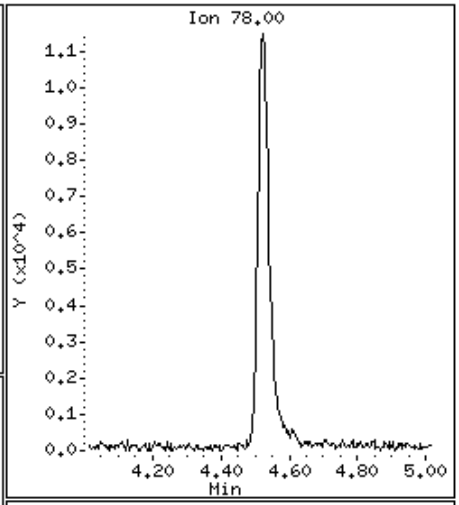
37 Benzene Concentration: 1.29 ug/l

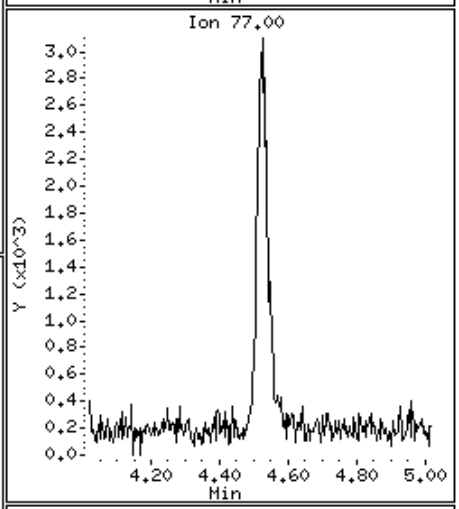


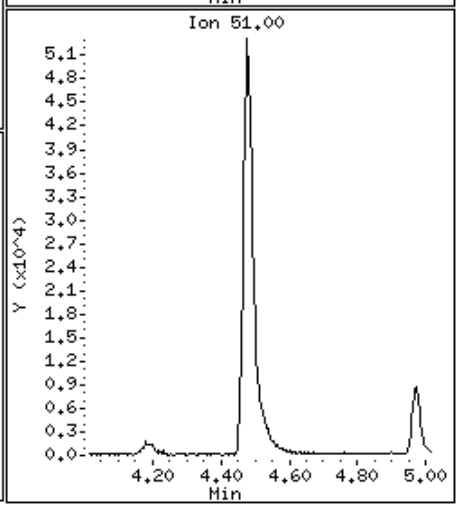












Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081911.D

Date : 19-AUG-2022 14:05

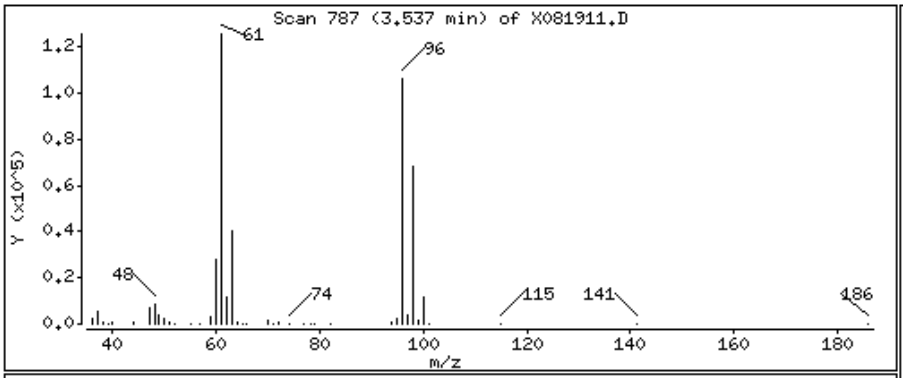
Client ID: HS22080933-01 Instrument: voa6.i

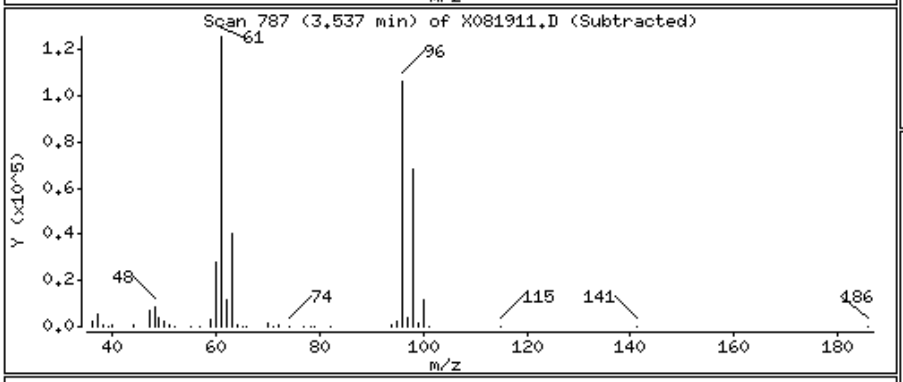
Sample Info: HS22080933-01;HS22080933-01;;;

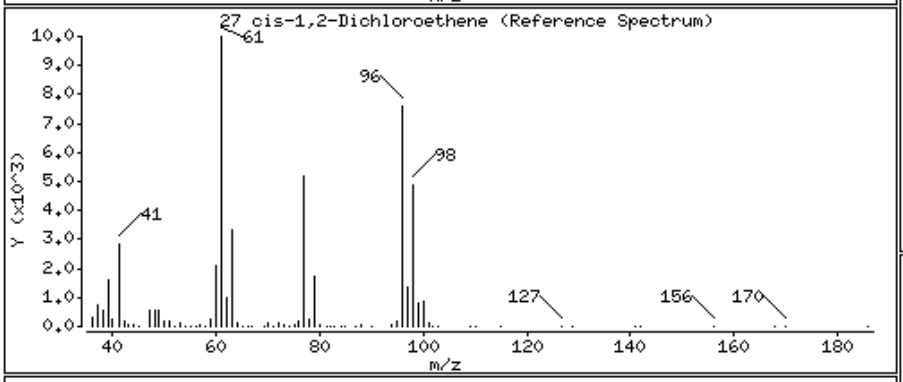
Purge Volume: 5.0 Operator: PC

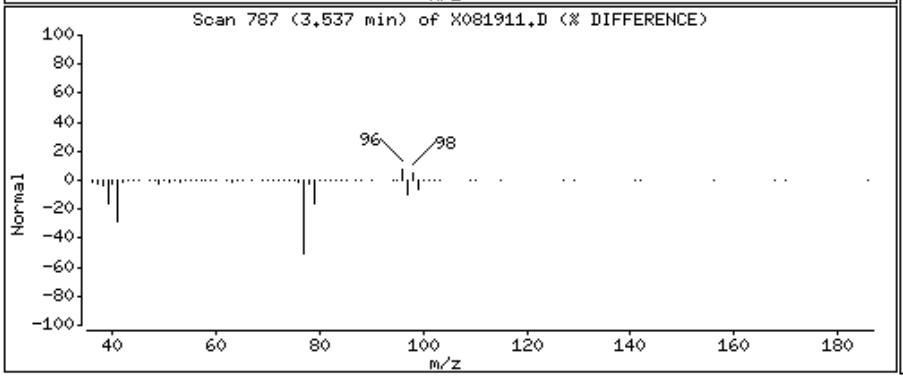
Column phase: DB624 Column diameter: 0.18

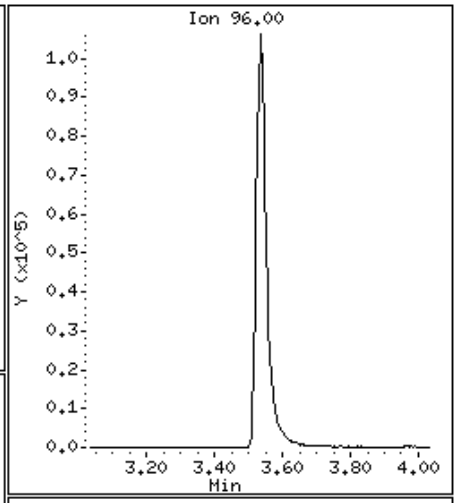
27 cis-1,2-Dichloroethene Concentration: 37.48 ug/l

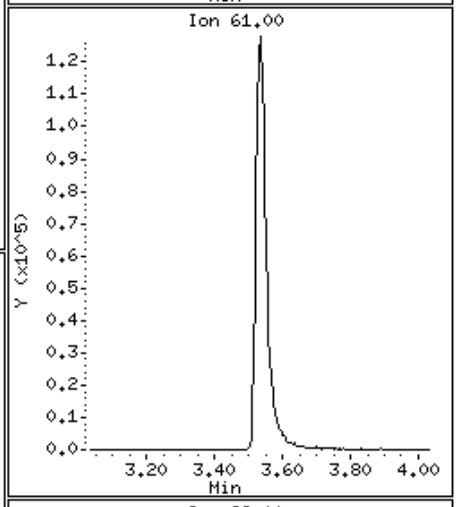


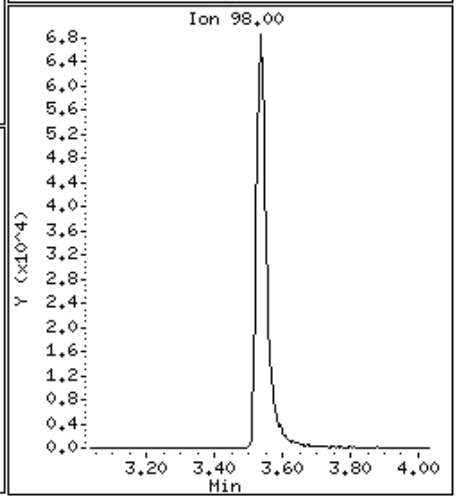












Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081911.D Page 4

Date : 19-AUG-2022 14:05

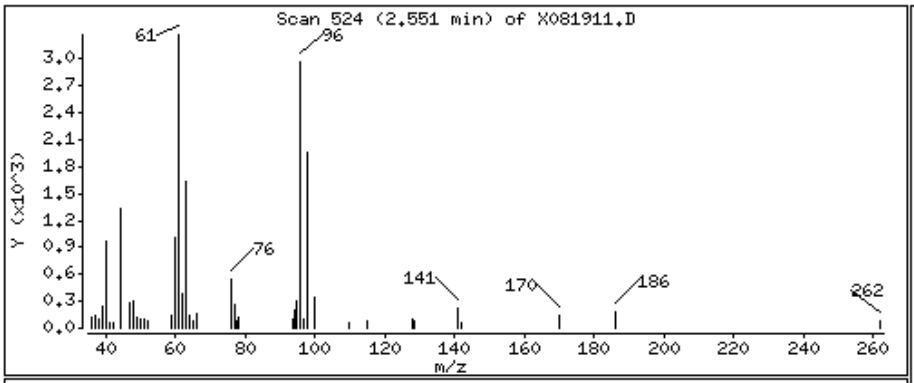
Client ID: HS22080933-01 Instrument: voa6.i

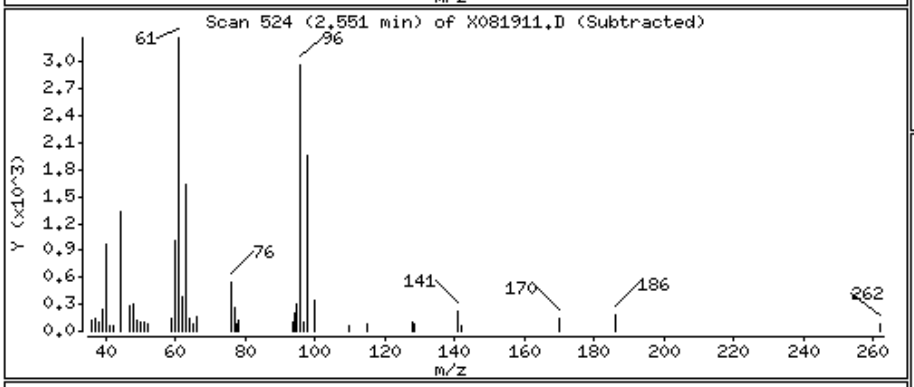
Sample Info: HS22080933-01;HS22080933-01;;;

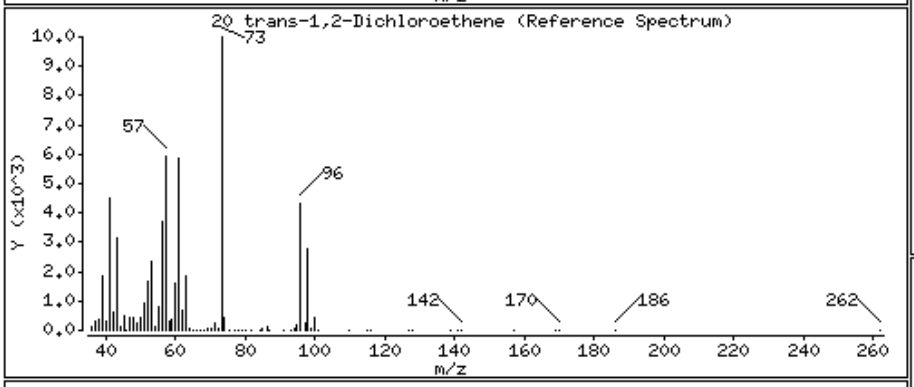
Purge Volume: 5.0 Operator: PC

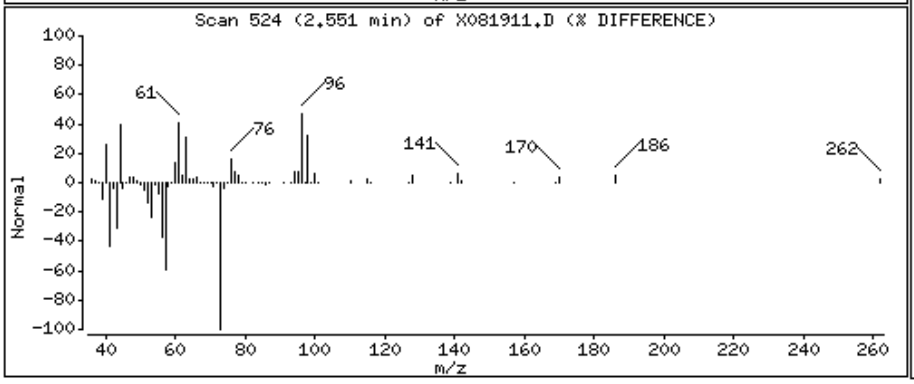
Column phase: DB624 Column diameter: 0.18

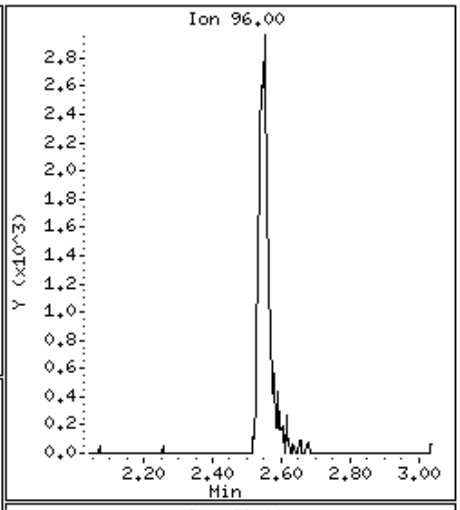
20 trans-1,2-Dichloroethene Concentration: 1.03 ug/l

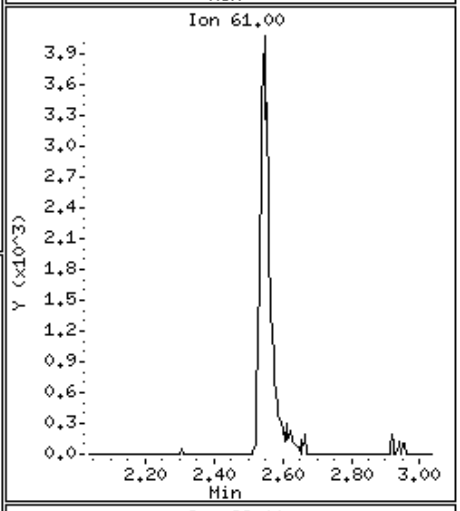


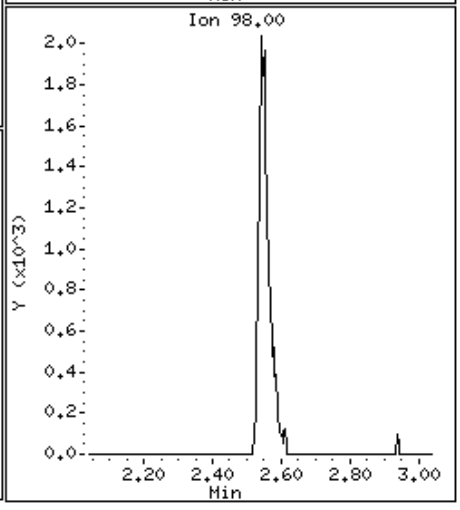












Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081911.D Page 5

Date : 19-AUG-2022 14:05

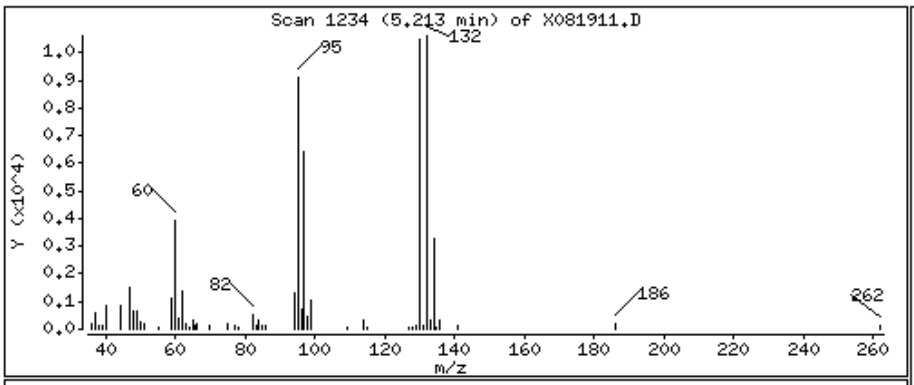
Client ID: HS22080933-01 Instrument: voa6.i

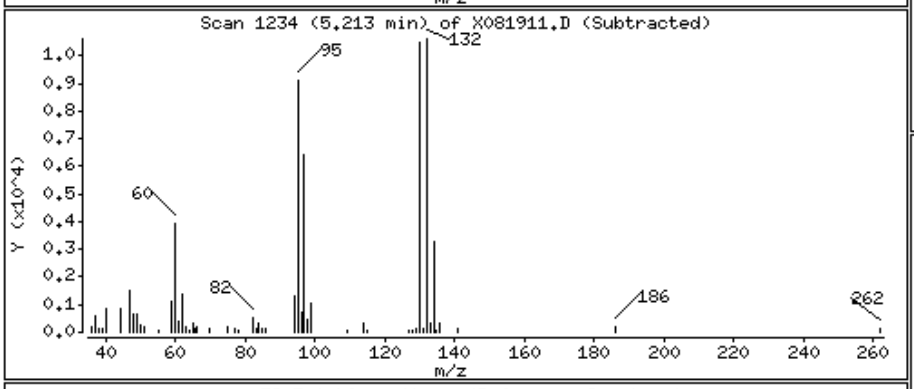
Sample Info: HS22080933-01;HS22080933-01;;;

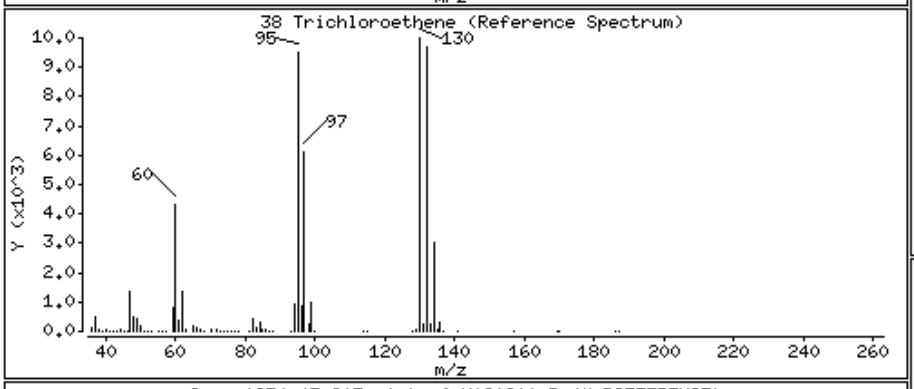
Purge Volume: 5.0 Operator: PC

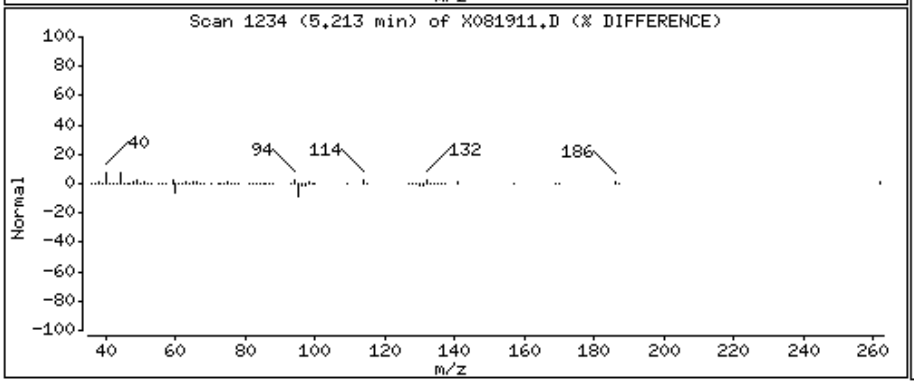
Column phase: DB624 Column diameter: 0.18

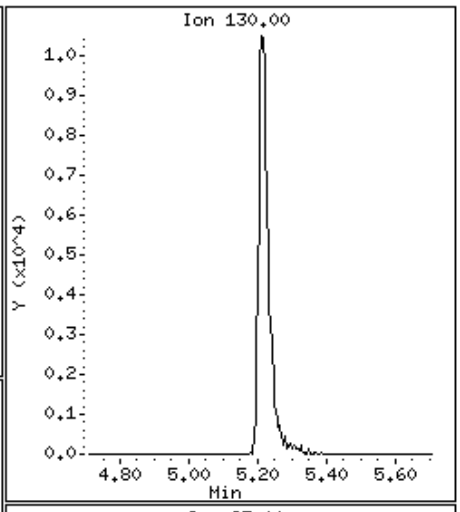
38 Trichloroethene Concentration: 3.40 ug/l

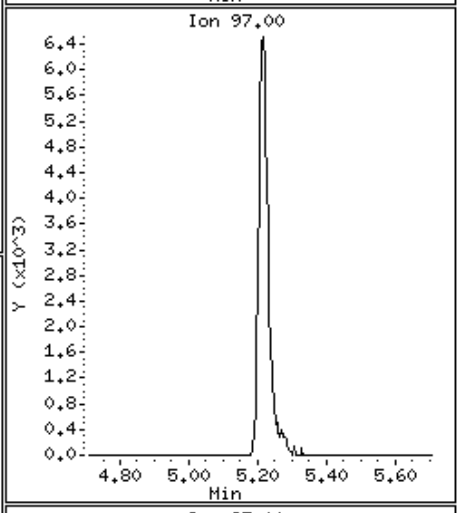


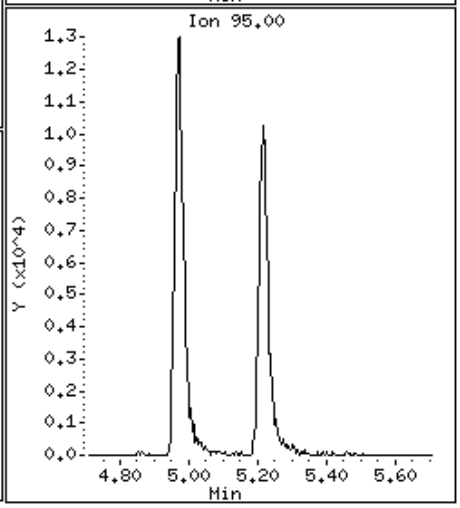












Data File : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081911.D
Inj Date : 19-AUG-2022 14:05
InstruID : voa6.i
LabSampID : HS22080933-01

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081912.D Page 1
Report Date: 08-Sep-2022 13:26

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081912.D
Lab Smp Id: HS22080933-06 Client Smp ID: HS22080933-06
Inj Date : 19-AUG-2022 14:26
Operator : PC Inst ID: voa6.i
Smp Info : HS22080933-06;HS22080933-06;;;
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\8260W.m
Meth Date : 08-Sep-2022 12:28 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.189	4.185	(1.000)	620642	50.0000	
* 36 1,4-Difluorobenzene	114	4.968	4.972	(1.000)	893355	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	788558	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.665	9.666	(1.000)	348679	50.0000	
$ 30 Dibromofluoromethane	113	4.106	4.106	(0.980)	276148	47.1089	47.10
$ 35 1,2-Dichloroethane-d4	65	4.477	4.474	(1.069)	304850	47.5099	47.50
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1044227	53.0746	53.07
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	333746	47.3856	47.38

01141281

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081912.D

Page 1

Date : 19-AUG-2022 14:26

Client ID: HS22080933-06

Instrument: voa6.i

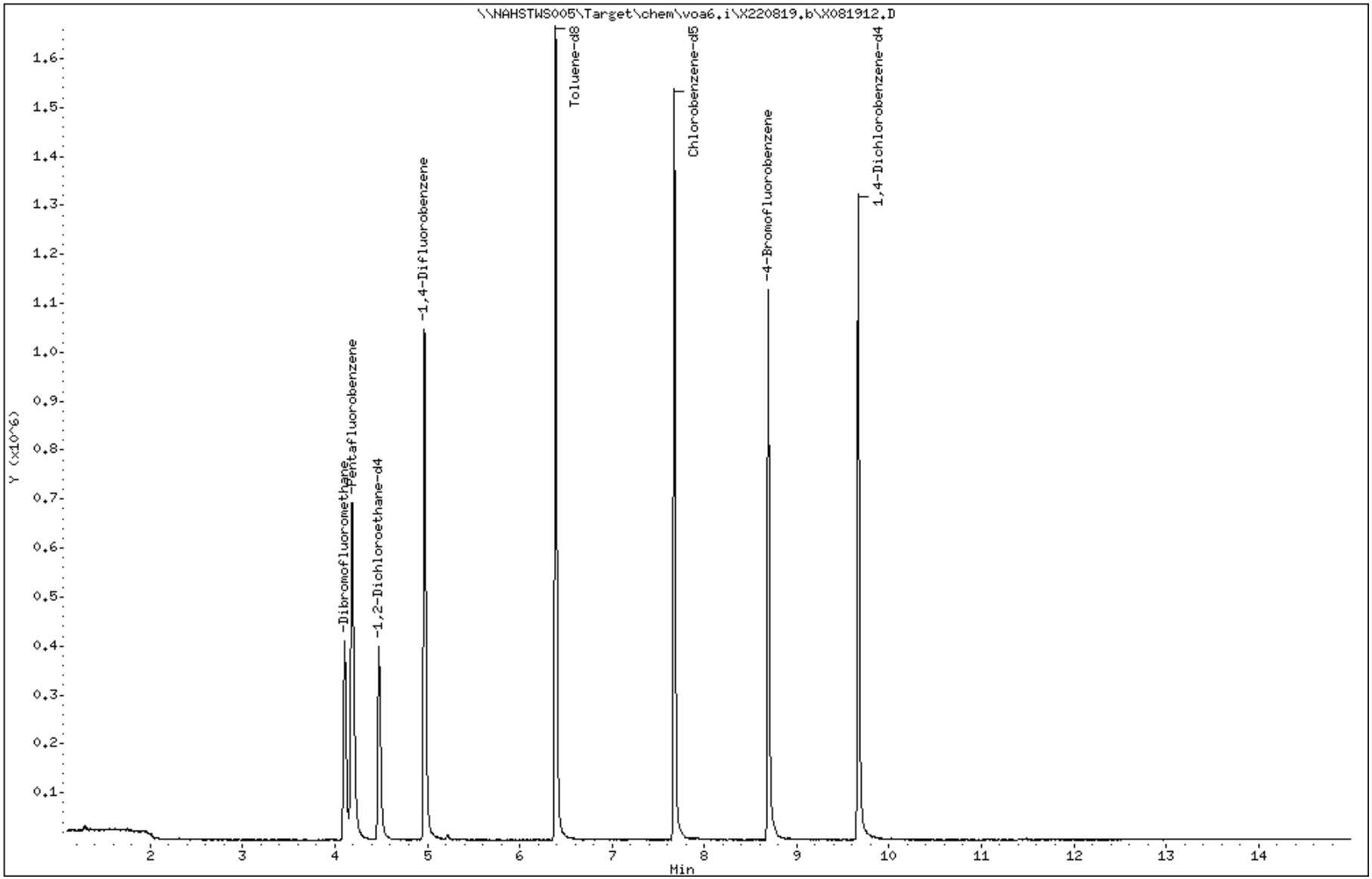
Sample Info: HS22080933-06;HS22080933-06;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081912.D
Inj Date : 19-AUG-2022 14:26
InstruID : voa6.i
LabSampID : HS22080933-06

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081913.D Page 1
Report Date: 08-Sep-2022 13:26

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081913.D
Lab Smp Id: HS22080933-05 Client Smp ID: HS22080933-05
Inj Date : 19-AUG-2022 14:47
Operator : PC Inst ID: voa6.i
Smp Info : HS22080933-05;HS22080933-05;;;
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\8260W.m
Meth Date : 08-Sep-2022 12:28 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.185	4.185	(1.000)	620279	50.0000	
* 36 1,4-Difluorobenzene	114	4.972	4.972	(1.000)	890299	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	784881	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.665	9.666	(1.000)	347826	50.0000	
$ 30 Dibromofluoromethane	113	4.102	4.106	(0.980)	278318	47.5130	47.51
$ 35 1,2-Dichloroethane-d4	65	4.477	4.474	(1.070)	310418	48.4122	48.41
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1039095	53.0612	53.06
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	334009	47.6496	47.64
27 cis-1,2-Dichloroethene	96	3.548	3.533	(0.848)	6852	1.11112	1.11(a)
38 Trichloroethene	130	5.216	5.208	(1.049)	52215	8.35523	8.35

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01141284

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081913.D

Page 1

Date : 19-AUG-2022 14:47

Client ID: HS22080933-05

Instrument: voa6.i

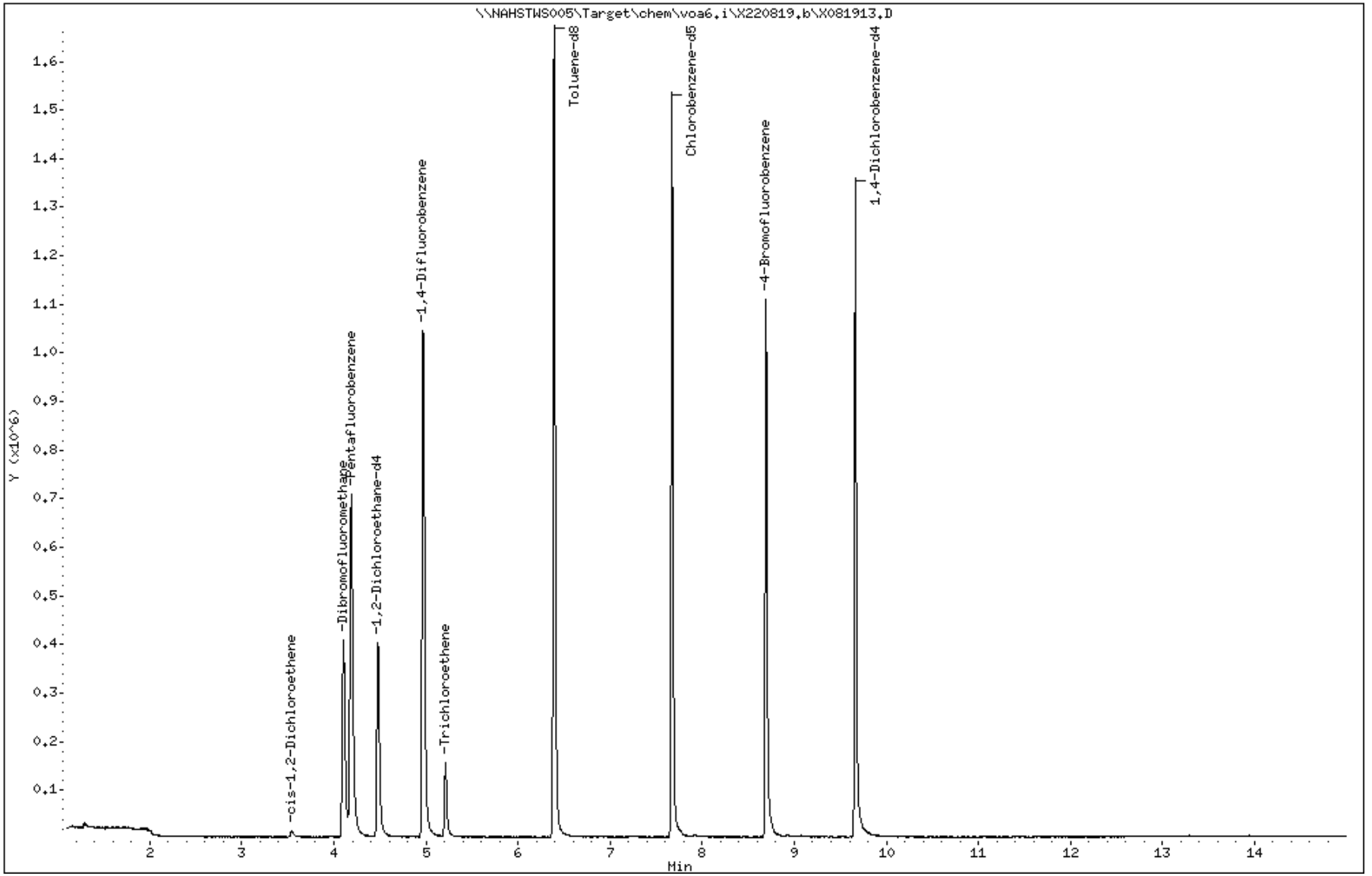
Sample Info: HS22080933-05;HS22080933-05;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081913.D

Date : 19-AUG-2022 14:47

Client ID: HS22080933-05

Instrument: voa6.i

Sample Info: HS22080933-05;HS22080933-05;;;

Purge Volume: 5.0

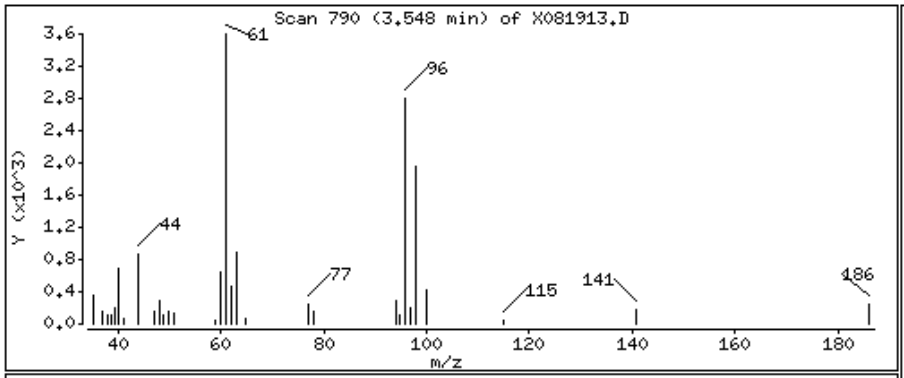
Operator: PC

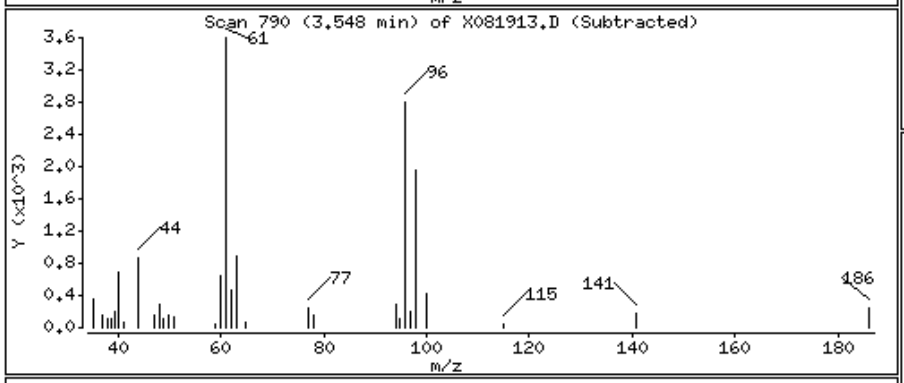
Column phase: DB624

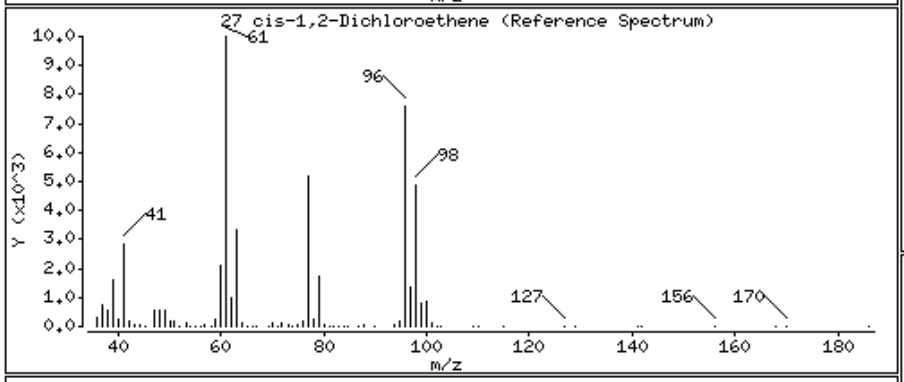
Column diameter: 0.18

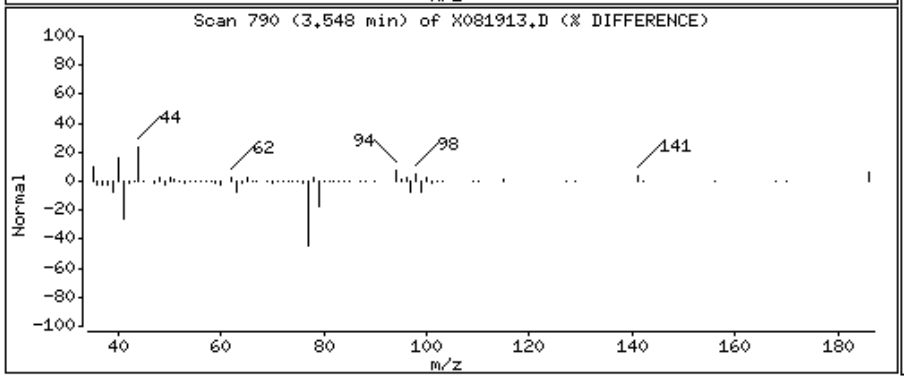
27 cis-1,2-Dichloroethene

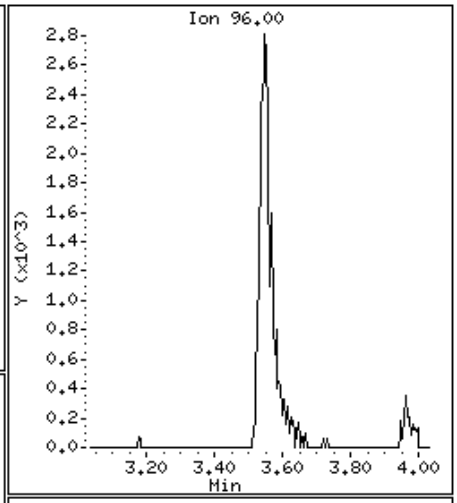
Concentration: 1.11 ug/l

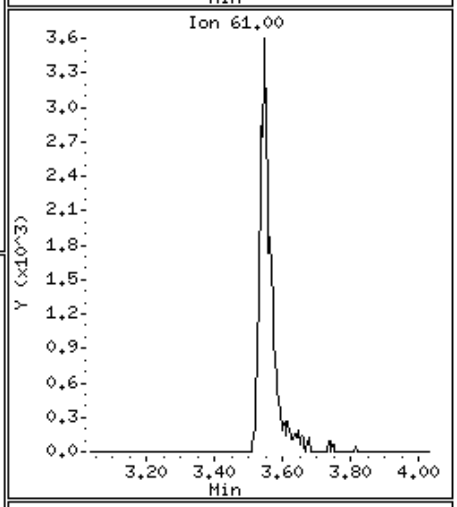


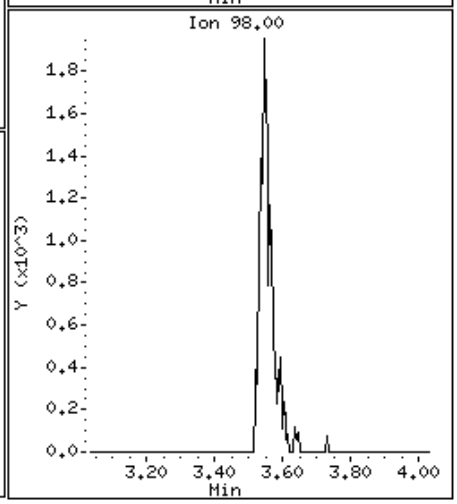












Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081913.D Page 3

Date : 19-AUG-2022 14:47

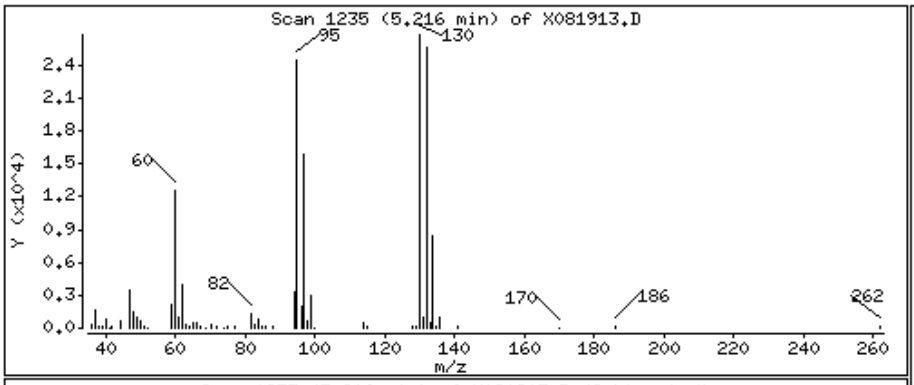
Client ID: HS22080933-05 Instrument: voa6.i

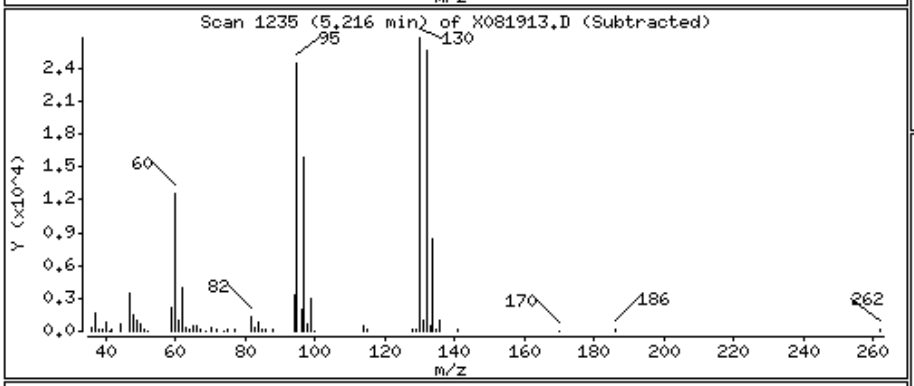
Sample Info: HS22080933-05;HS22080933-05;;;

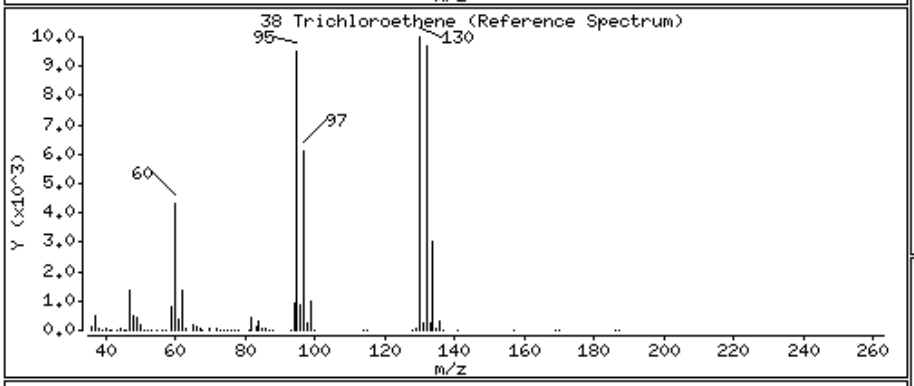
Purge Volume: 5.0 Operator: PC

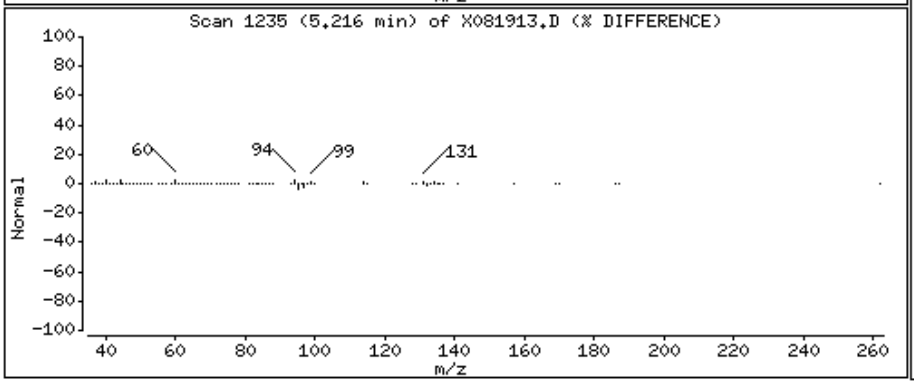
Column phase: DB624 Column diameter: 0.18

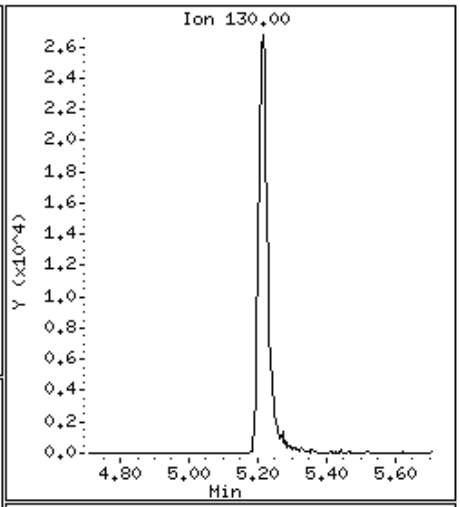
38 Trichloroethene Concentration: 8.35 ug/l

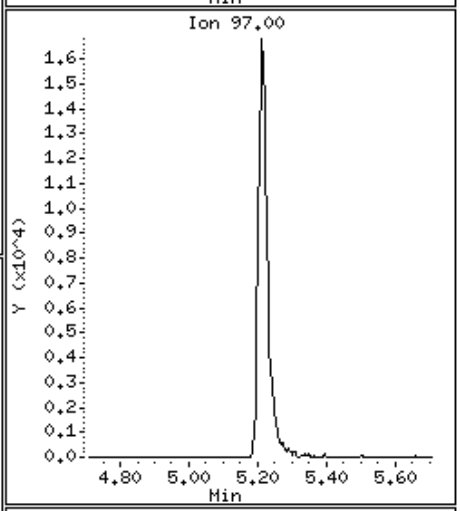


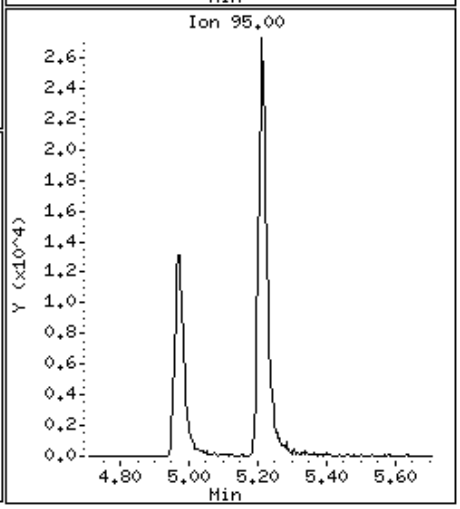












Data File : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081913.D
Inj Date : 19-AUG-2022 14:47
InstruID : voa6.i
LabSampID : HS22080933-05

NO MANUAL INTEGRATIONS

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081914.D
Lab Smp Id: HS22080933-02 Client Smp ID: HS22080933-02
Inj Date : 19-AUG-2022 15:08
Operator : PC Inst ID: voa6.i
Smp Info : HS22080933-02;HS22080933-02;;;
Misc Info : HS22052000V6;WATER;0;25;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\8260W.m
Meth Date : 08-Sep-2022 12:28 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 14
Dil Factor: 25.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	25.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.185	4.185	(1.000)	627554	50.0000	
* 36 1,4-Difluorobenzene	114	4.969	4.972	(1.000)	907933	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	784121	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.666	9.666	(1.000)	341329	50.0000	
$ 30 Dibromofluoromethane	113	4.103	4.106	(0.980)	281627	47.5207	47.52
$ 35 1,2-Dichloroethane-d4	65	4.478	4.474	(1.070)	310987	47.9354	47.93
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1050398	53.6904	53.69
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	332765	47.5159	47.51
33 1,2-Dichloroethane	62	4.564	4.560	(0.919)	25071	3.14854	78.71(a)
28 Chloroform	83	3.919	3.911	(0.936)	14856	1.40346	35.08(a)
27 cis-1,2-Dichloroethene	96	3.540	3.533	(0.846)	18099	2.90092	72.52(a)
38 Trichloroethene	130	5.208	5.208	(1.048)	1204928	189.063	4726.57

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

01141289

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081914.D

Date : 19-AUG-2022 15:08

Client ID: HS22080933-02

Instrument: voa6.i

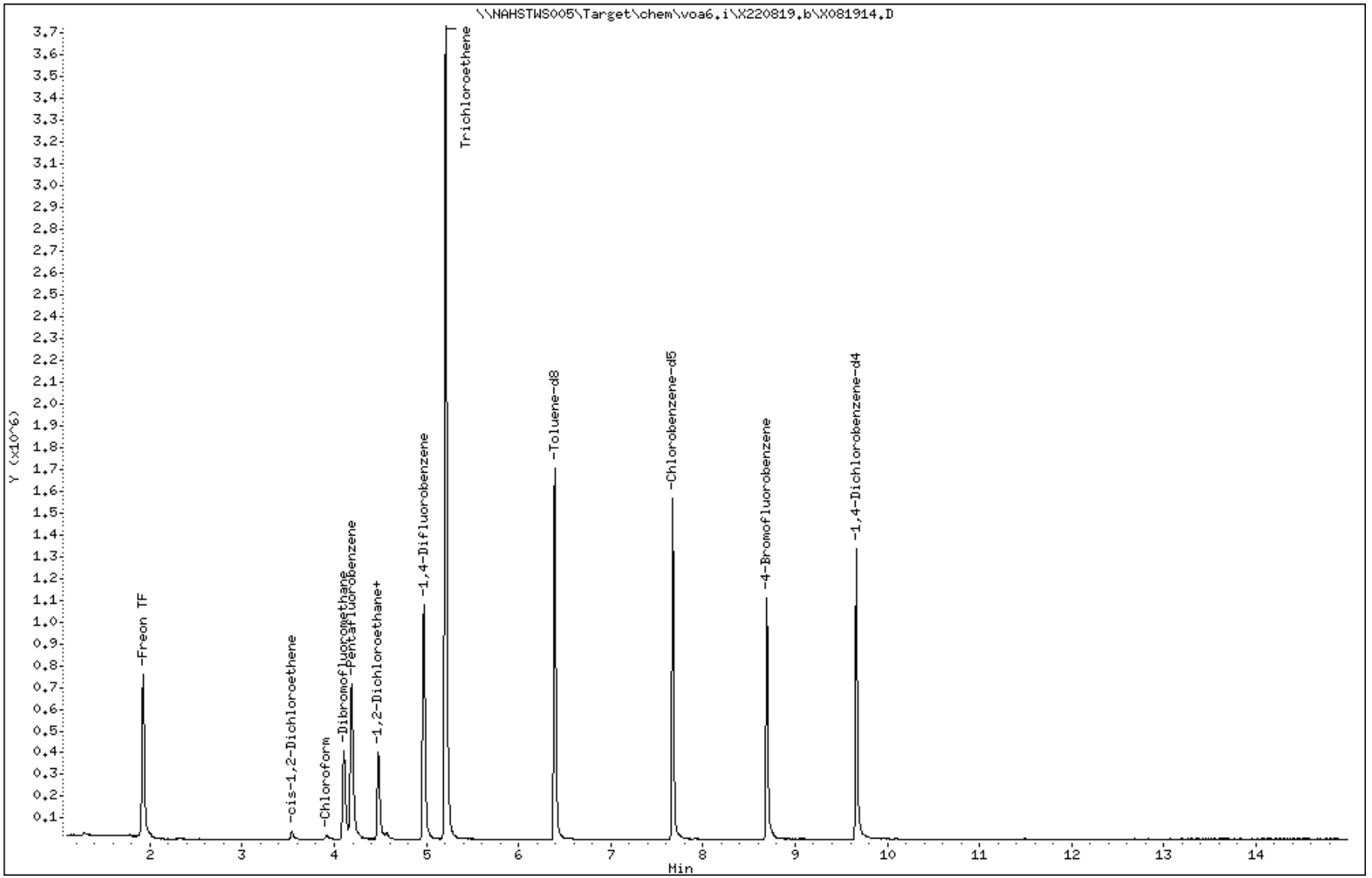
Sample Info: HS22080933-02;HS22080933-02;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081914.D

Date : 19-AUG-2022 15:08

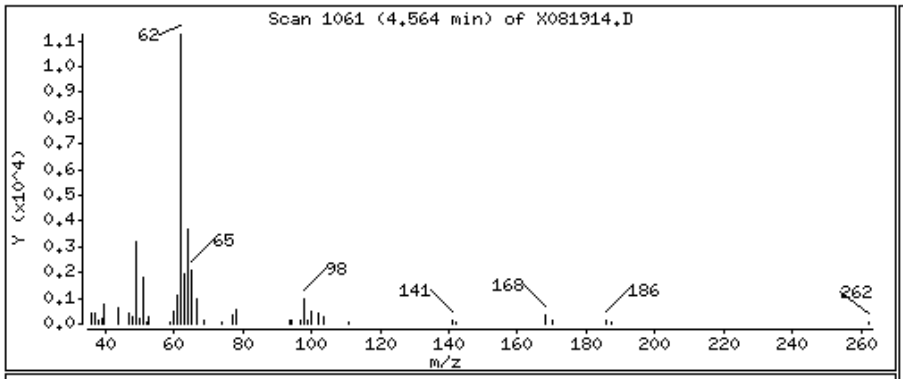
Client ID: HS22080933-02 Instrument: voa6.i

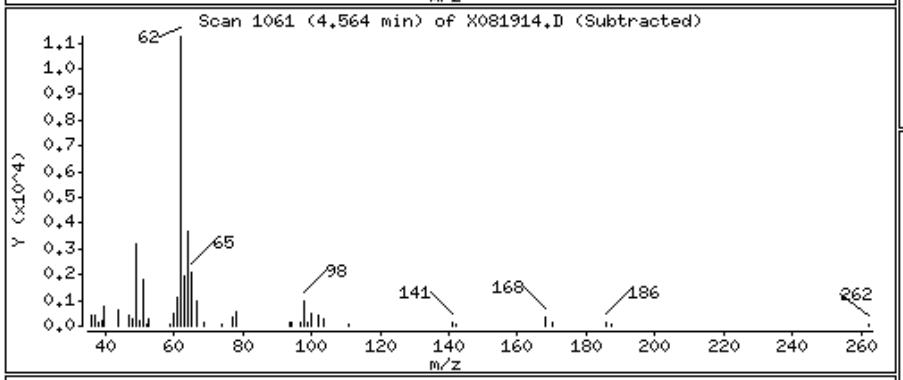
Sample Info: HS22080933-02;HS22080933-02;;;

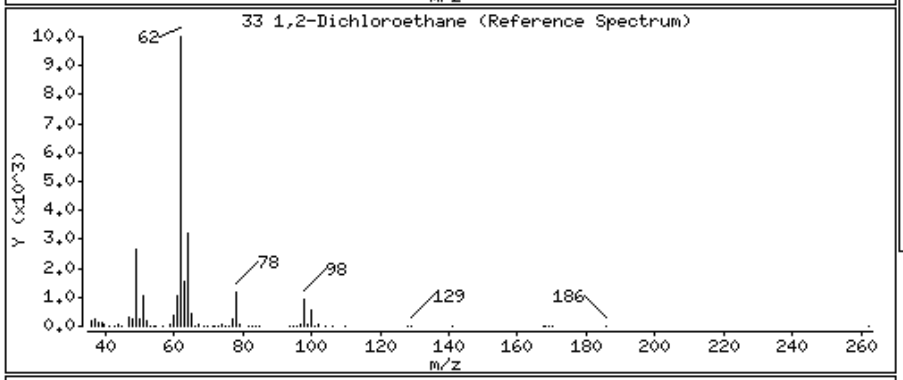
Purge Volume: 5.0 Operator: PC

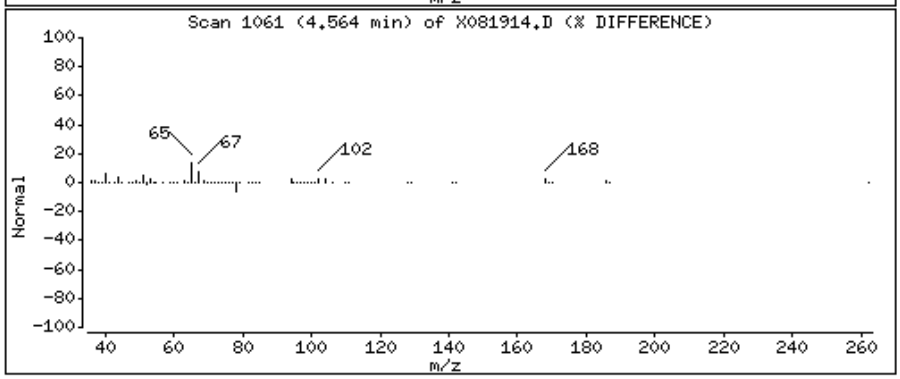
Column phase: DB624 Column diameter: 0.18

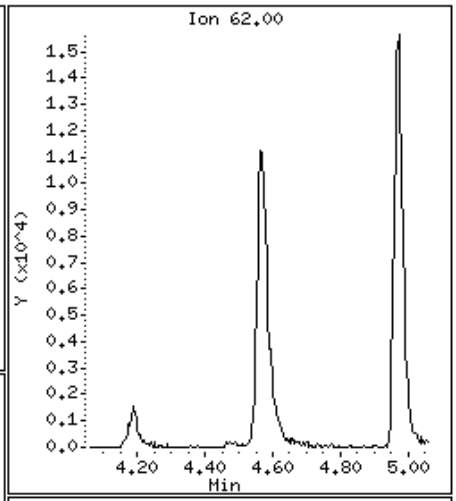
33 1,2-Dichloroethane Concentration: 78.71 ug/l

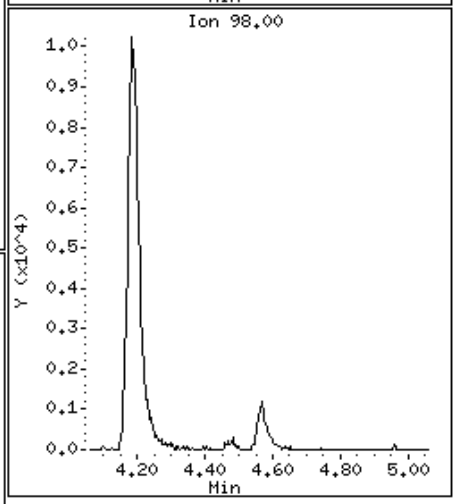












Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081914.D Page 3

Date : 19-AUG-2022 15:08

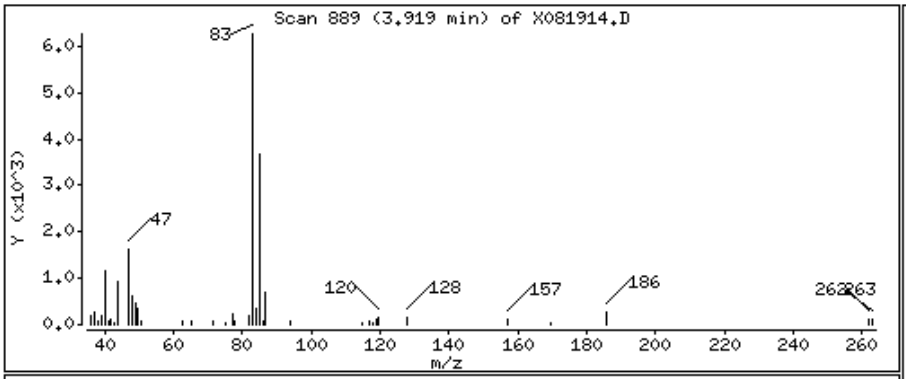
Client ID: HS22080933-02 Instrument: voa6.i

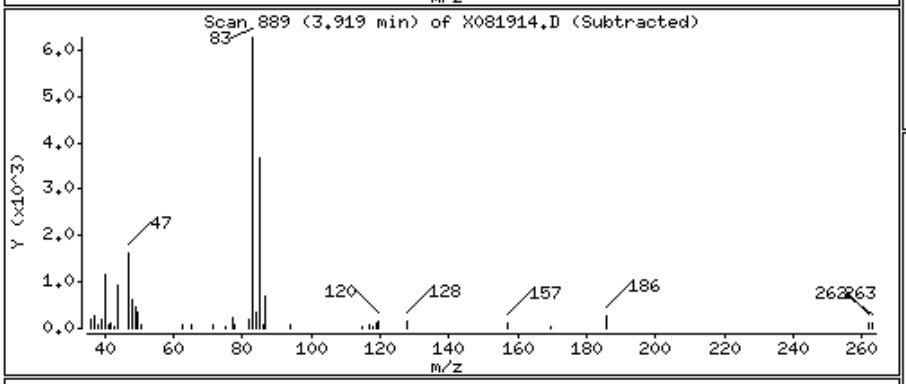
Sample Info: HS22080933-02;HS22080933-02;;;

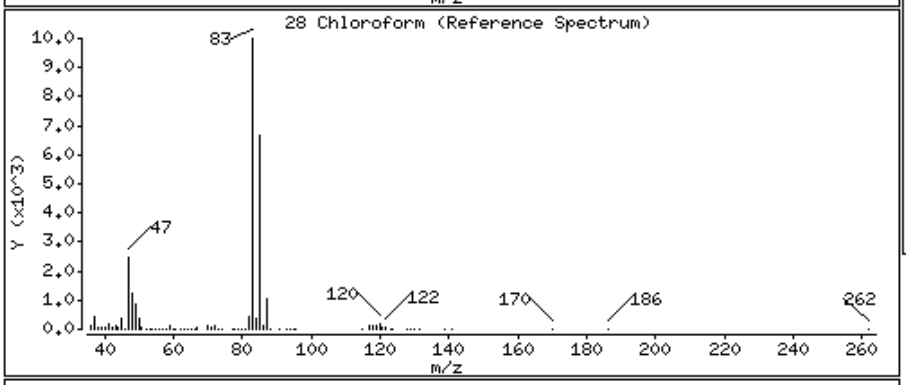
Purge Volume: 5.0 Operator: PC

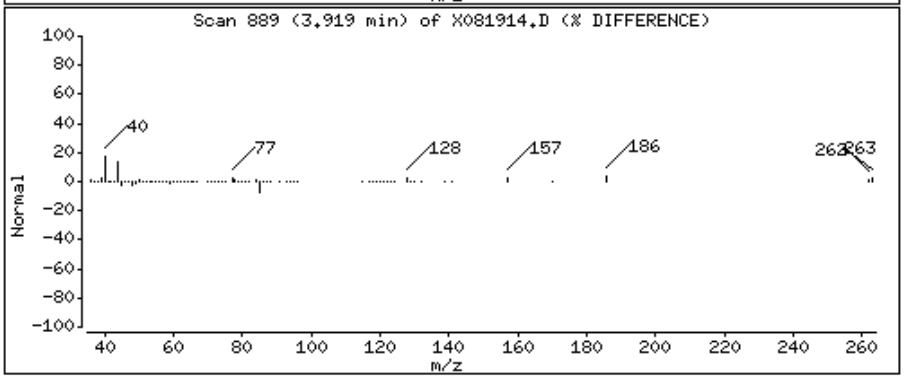
Column phase: DB624 Column diameter: 0.18

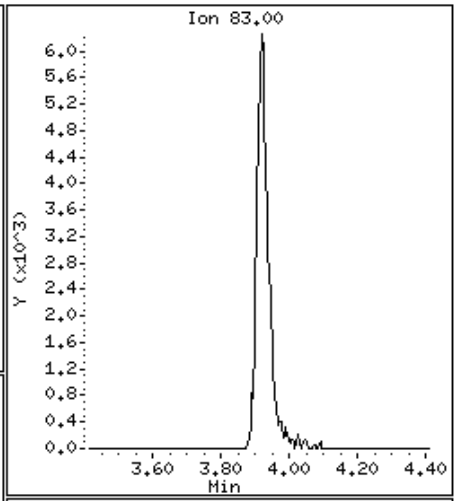
28 Chloroform Concentration: 35.08 ug/l

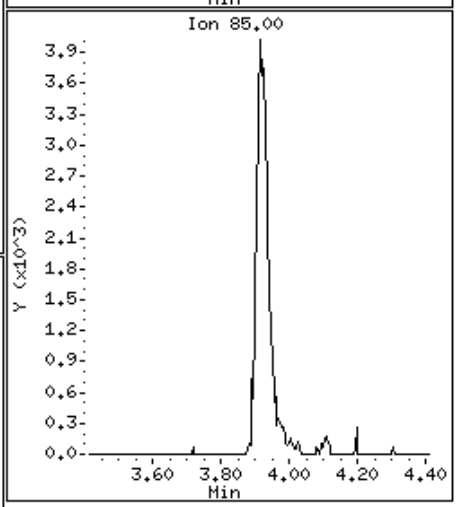












Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081914.D Page 4

Date : 19-AUG-2022 15:08

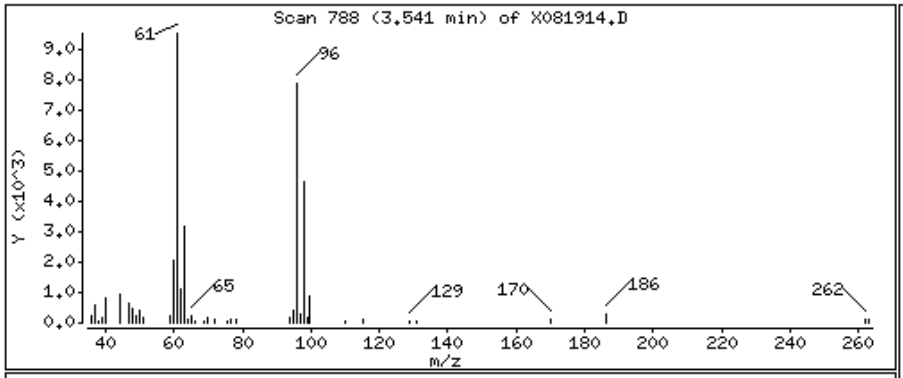
Client ID: HS22080933-02 Instrument: voa6.i

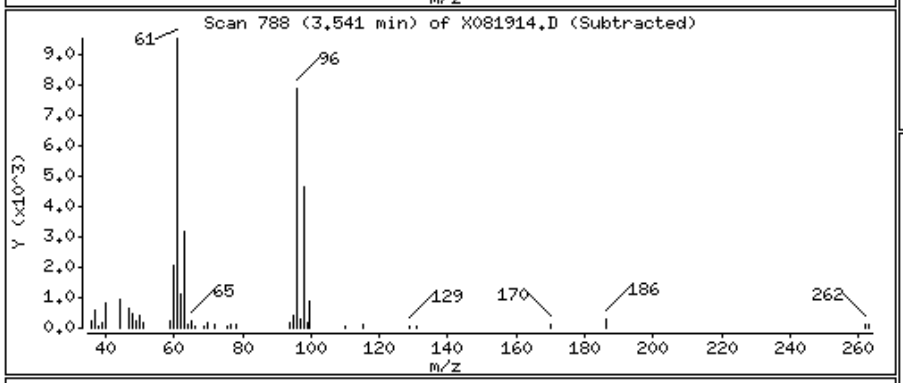
Sample Info: HS22080933-02;HS22080933-02;;;

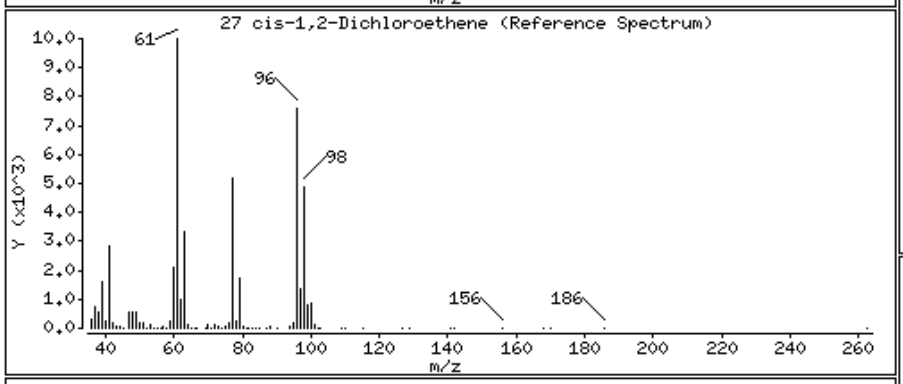
Purge Volume: 5.0 Operator: PC

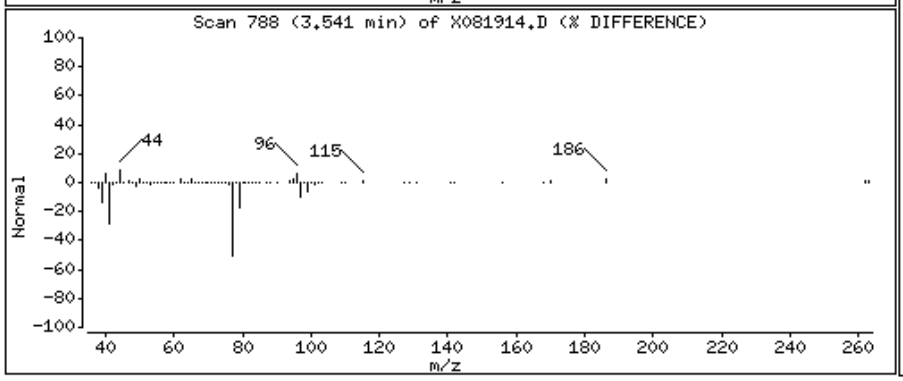
Column phase: DB624 Column diameter: 0.18

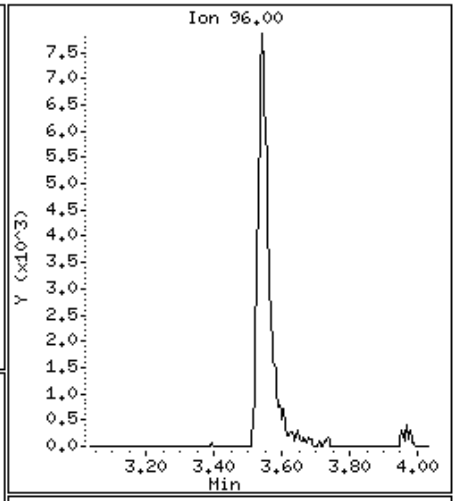
27 cis-1,2-Dichloroethene Concentration: 72.52 ug/l

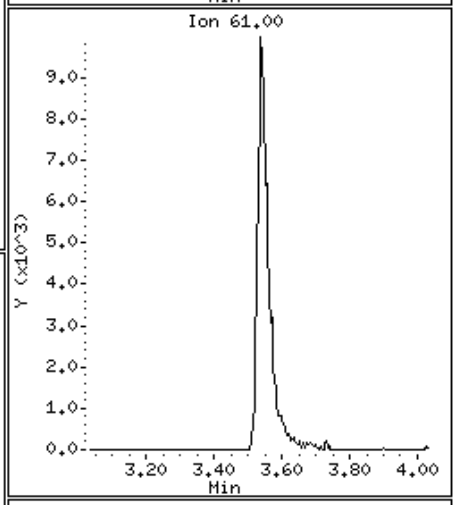


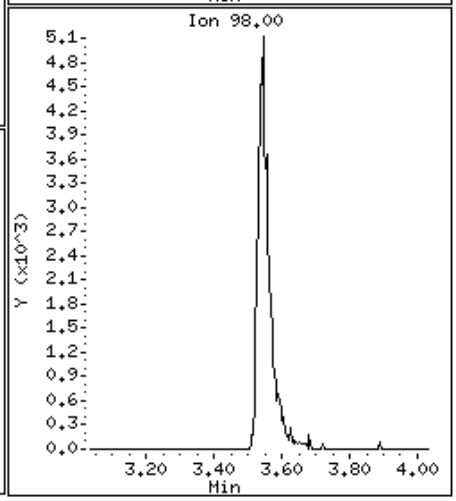












Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081914.D

Date : 19-AUG-2022 15:08

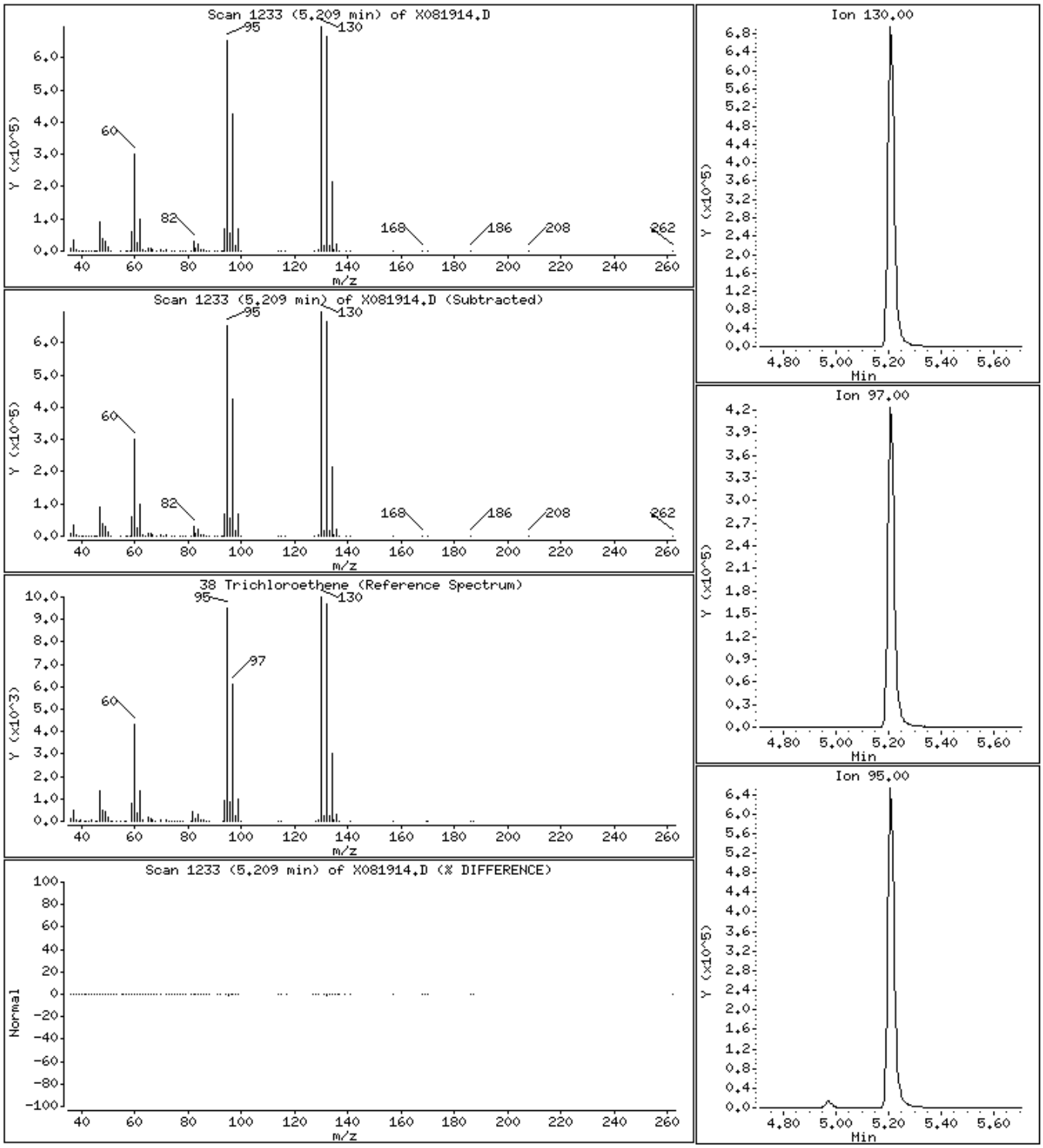
Client ID: HS22080933-02 Instrument: voa6.i

Sample Info: HS22080933-02;HS22080933-02;;;

Purge Volume: 5.0 Operator: PC

Column phase: DB624 Column diameter: 0.18

38 Trichloroethene Concentration: 4726.57 ug/l



Data File : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081914.D
Inj Date : 19-AUG-2022 15:08
InstruID : voa6.i
LabSampID : HS22080933-02

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081915.D Page 1
Report Date: 08-Sep-2022 13:26

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081915.D
Lab Smp Id: HS22080933-04 Client Smp ID: HS22080933-04
Inj Date : 19-AUG-2022 15:30
Operator : PC Inst ID: voa6.i
Smp Info : HS22080933-04;HS22080933-04;;;
Misc Info : HS22052000V6;WATER;0;25;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\8260W.m
Meth Date : 08-Sep-2022 12:28 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 15
Dil Factor: 25.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	25.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.185	4.185	(1.000)	621180	50.0000	
* 36 1,4-Difluorobenzene	114	4.969	4.972	(1.000)	888272	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	786656	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.666	9.666	(1.000)	346450	50.0000	
$ 30 Dibromofluoromethane	113	4.103	4.106	(0.980)	277643	47.3262	47.32
$ 35 1,2-Dichloroethane-d4	65	4.477	4.474	(1.070)	306555	47.7358	47.73
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1039270	52.9504	52.95
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	338169	48.1426	48.14
22 1,1-Dichloroethane	63	2.929	2.929	(0.700)	9044	0.94572	23.64(a)
11 1,1-Dichloroethene	96	1.925	1.925	(0.460)	19331	3.72799	93.19(a)
33 1,2-Dichloroethane	62	4.564	4.560	(0.919)	25136	3.22658	80.66(a)
27 cis-1,2-Dichloroethene	96	3.533	3.533	(0.844)	468578	75.8747	1896.86
20 trans-1,2-Dichloroethene	96	2.551	2.539	(0.610)	4132	0.75614	18.90(a)
38 Trichloroethene	130	5.208	5.208	(1.048)	1938556	310.908	7772.69(A)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

A - Target compound detected but, quantitated amount exceeded maximum amount.

01141297

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081915.D

Page 1

Date : 19-AUG-2022 15:30

Client ID: HS22080933-04

Instrument: voa6.i

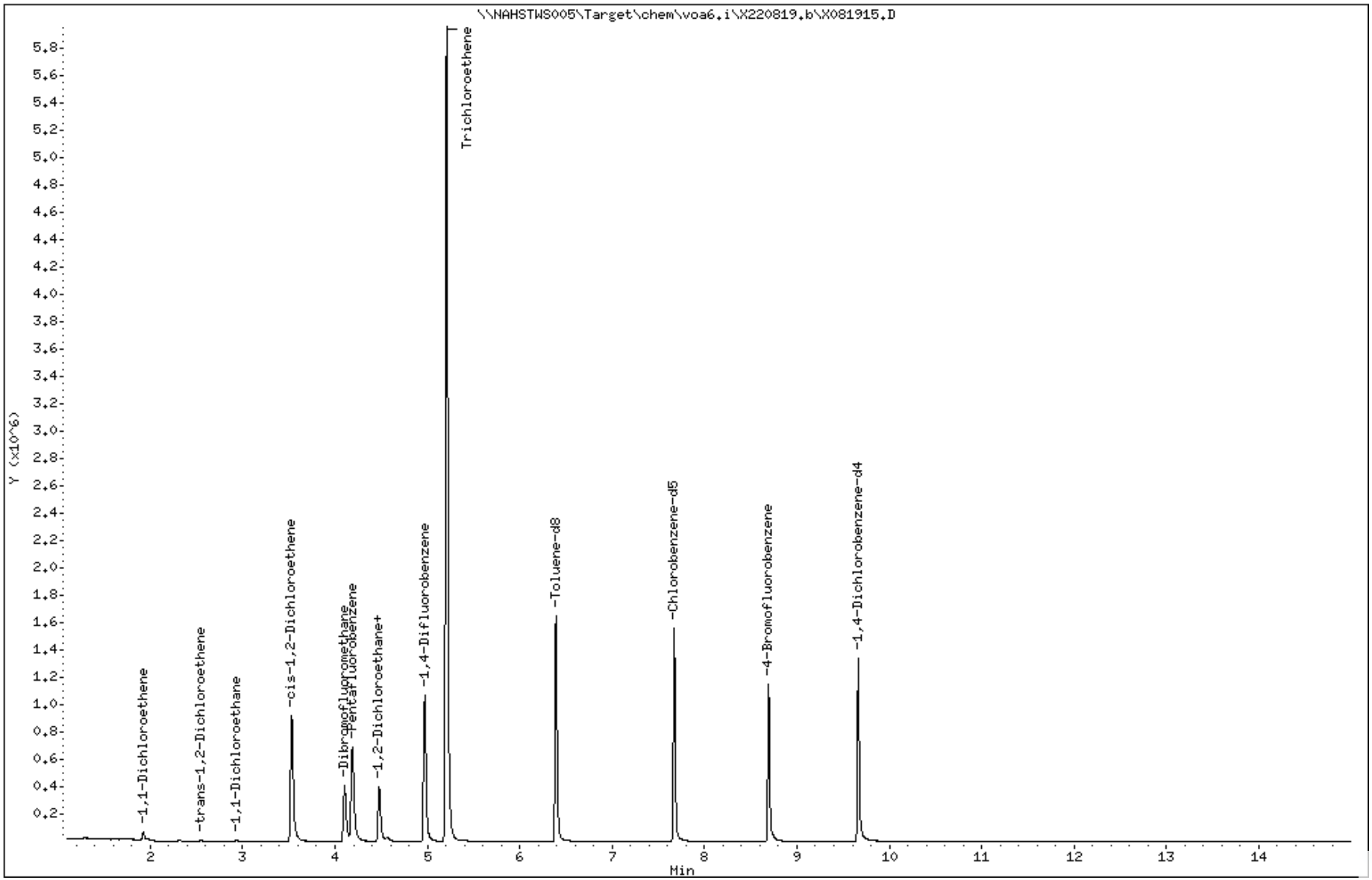
Sample Info: HS22080933-04;HS22080933-04;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081915.D

Date : 19-AUG-2022 15:30

Client ID: HS22080933-04

Instrument: voa6.i

Sample Info: HS22080933-04;HS22080933-04;;;

Purge Volume: 5.0

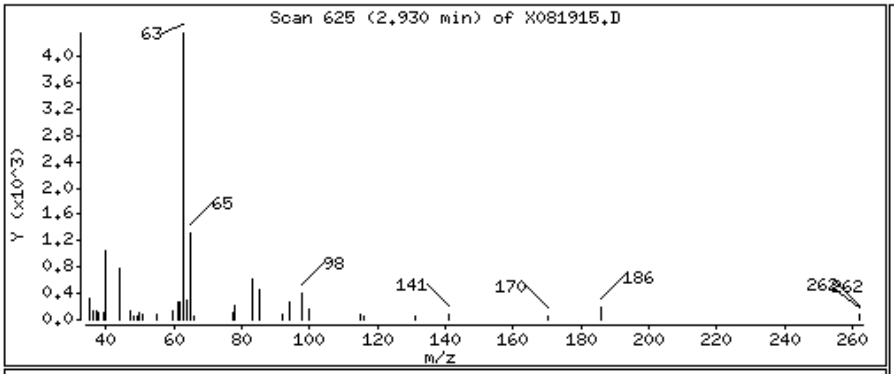
Operator: PC

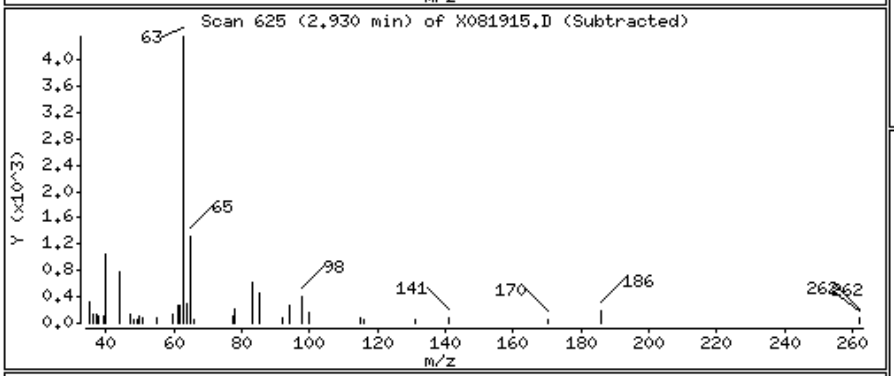
Column phase: DB624

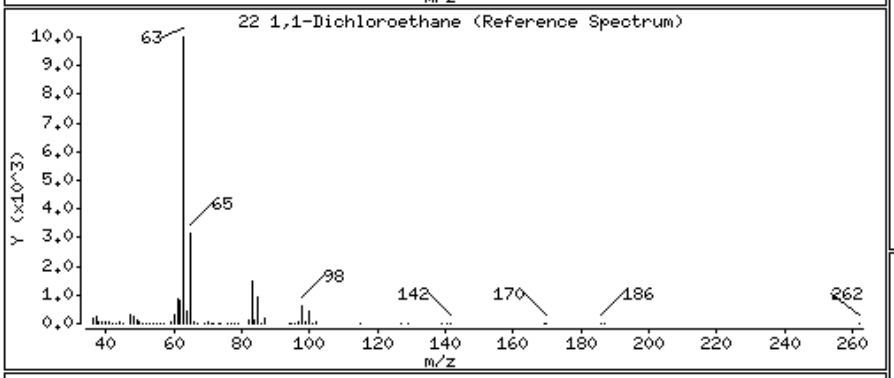
Column diameter: 0.18

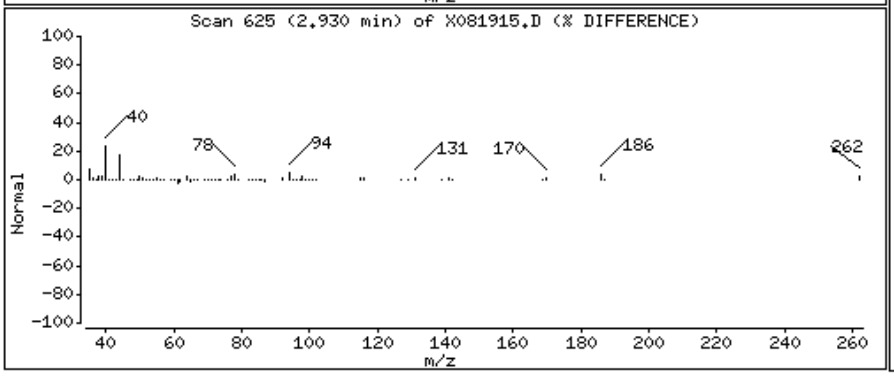
22 1,1-Dichloroethane

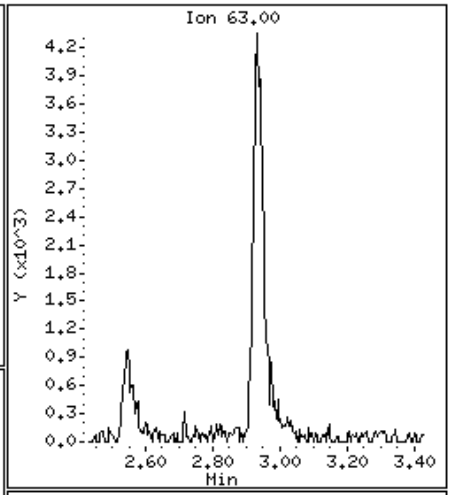
Concentration: 23.64 ug/l

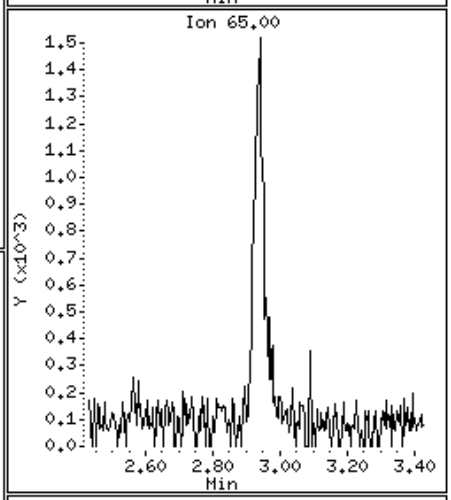


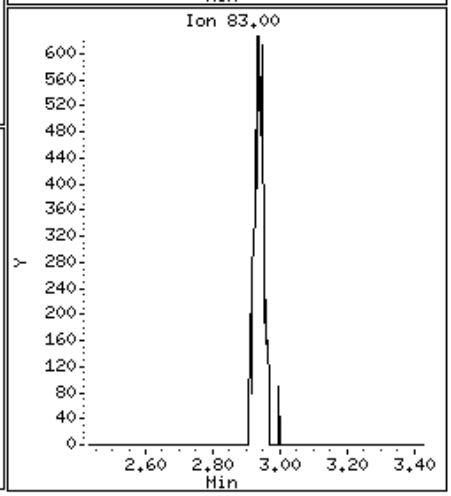












Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081915.D Page 3

Date : 19-AUG-2022 15:30

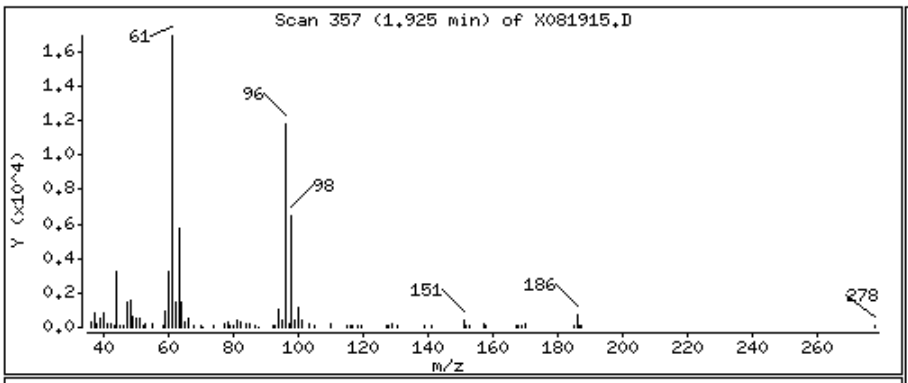
Client ID: HS22080933-04 Instrument: voa6.i

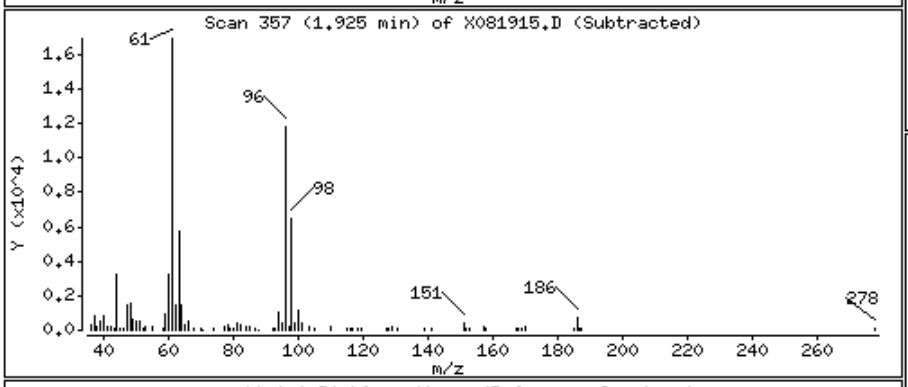
Sample Info: HS22080933-04;HS22080933-04;;;

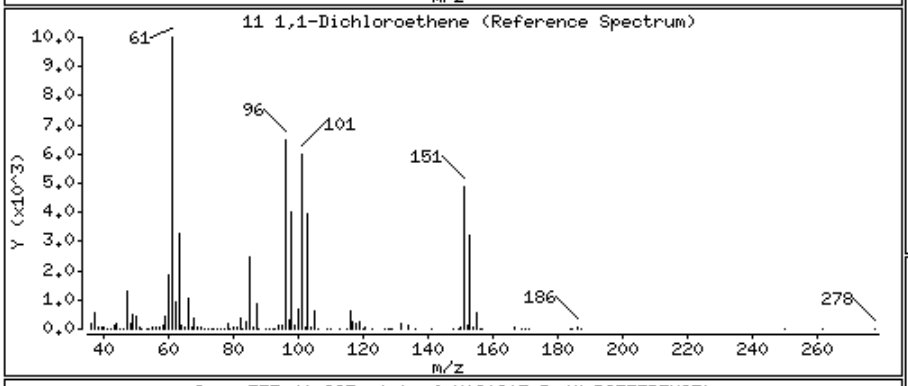
Purge Volume: 5.0 Operator: PC

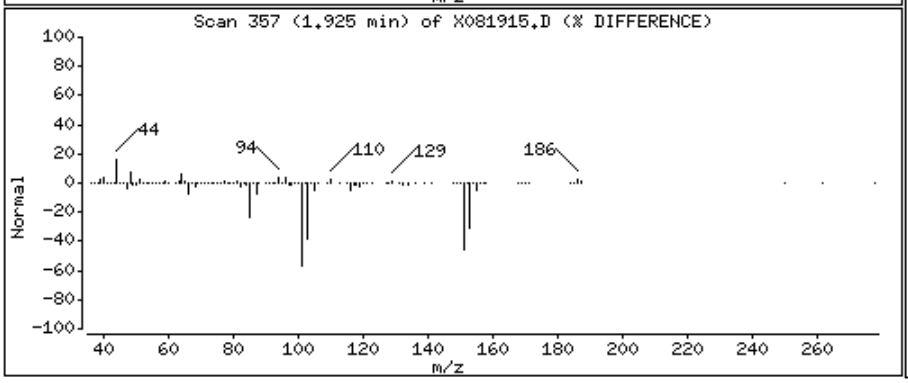
Column phase: DB624 Column diameter: 0.18

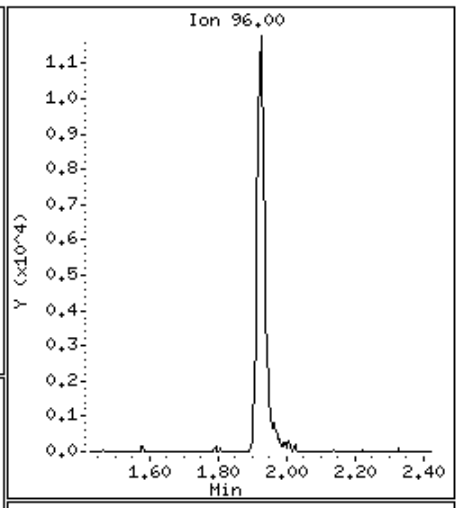
11 1,1-Dichloroethene Concentration: 93.19 ug/l

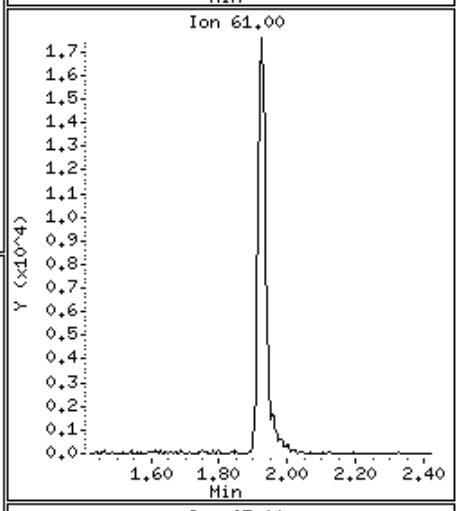


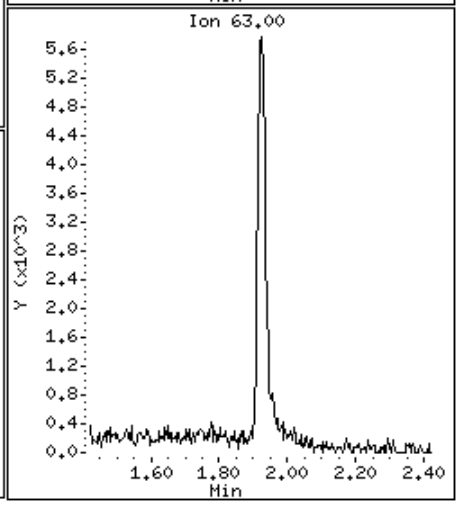












Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081915.D

Date : 19-AUG-2022 15:30

Client ID: HS22080933-04

Instrument: voa6.i

Sample Info: HS22080933-04;HS22080933-04;;;

Purge Volume: 5.0

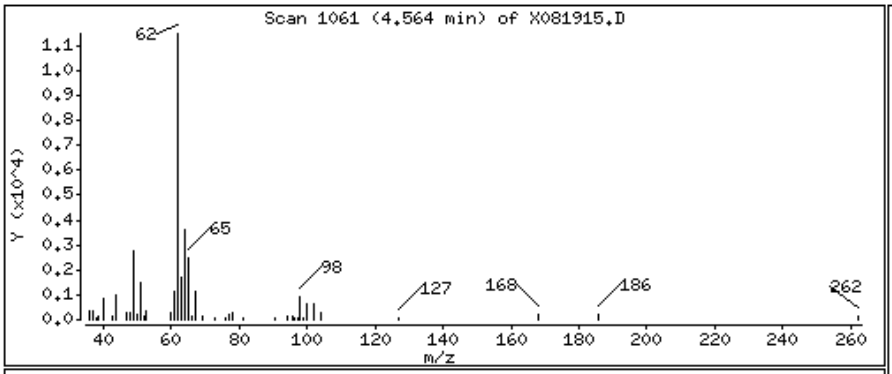
Operator: PC

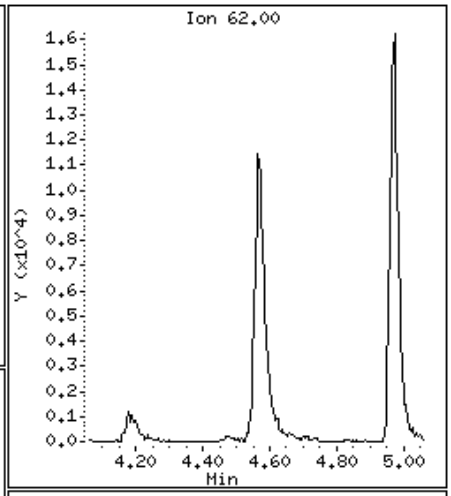
Column phase: DB624

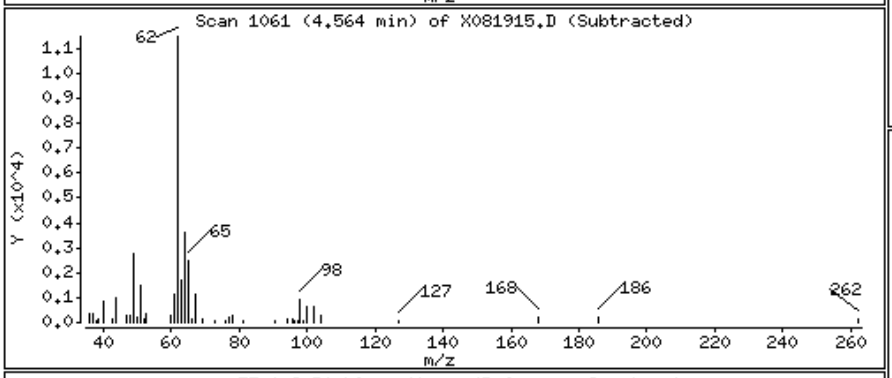
Column diameter: 0.18

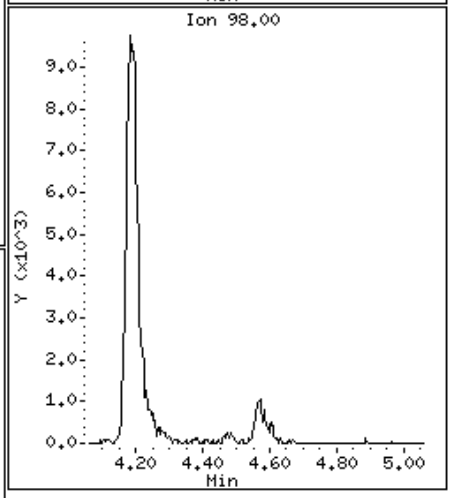
33 1,2-Dichloroethane

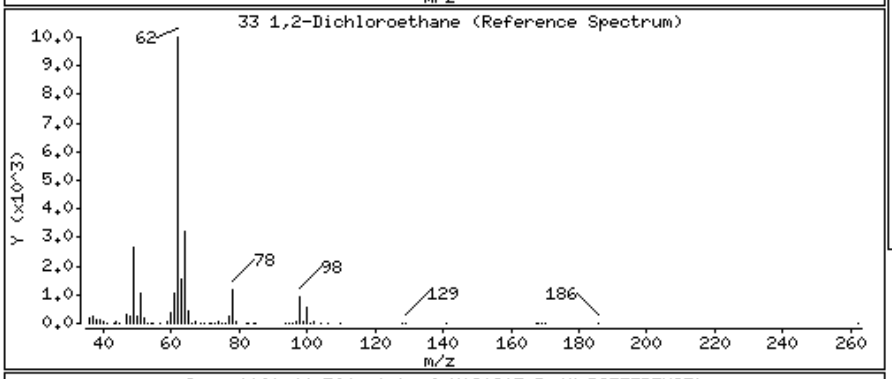
Concentration: 80.66 ug/l

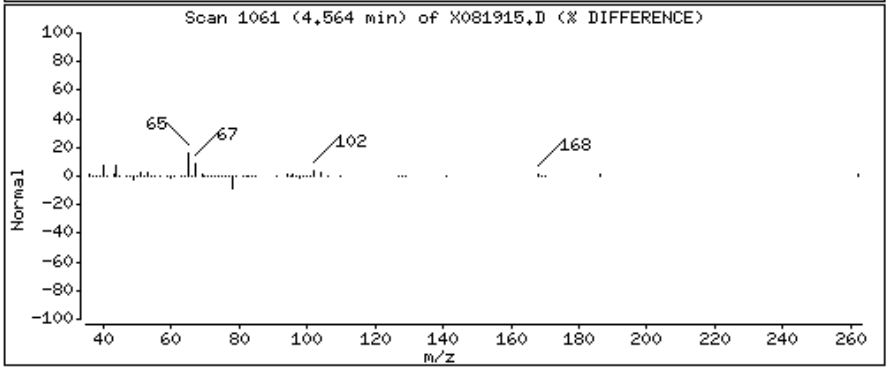












Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081915.D

Date : 19-AUG-2022 15:30

Client ID: HS22080933-04

Instrument: voa6.i

Sample Info: HS22080933-04;HS22080933-04;;;

Purge Volume: 5.0

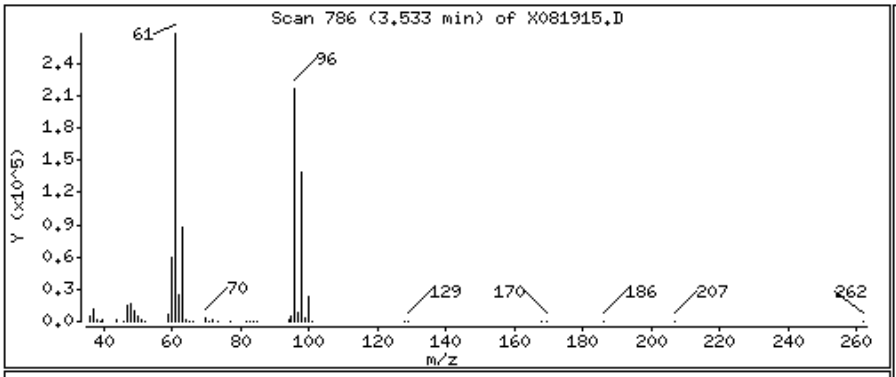
Operator: PC

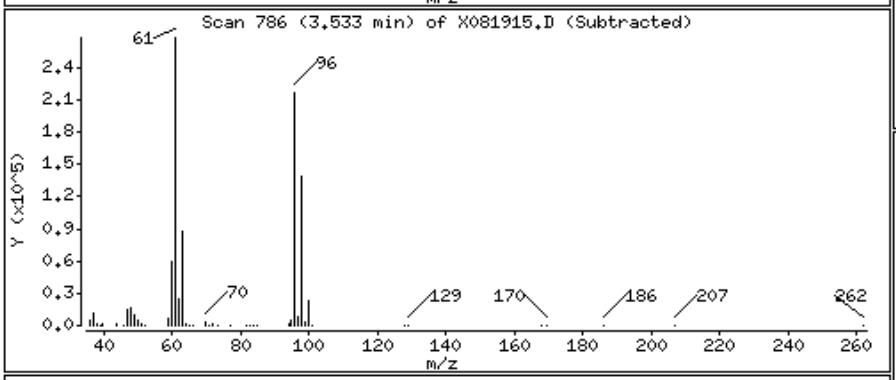
Column phase: DB624

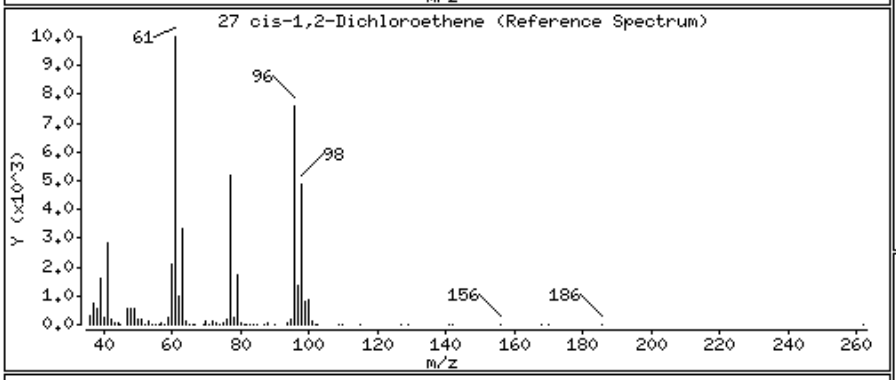
Column diameter: 0.18

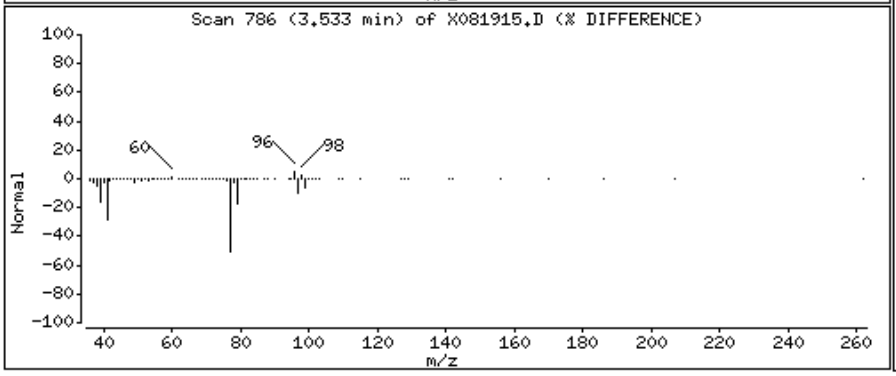
27 cis-1,2-Dichloroethene

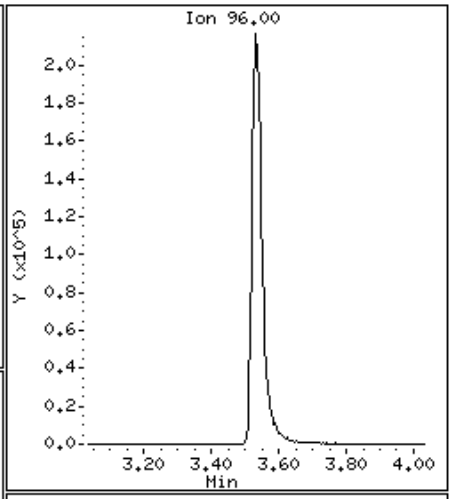
Concentration: 1896.86 ug/l

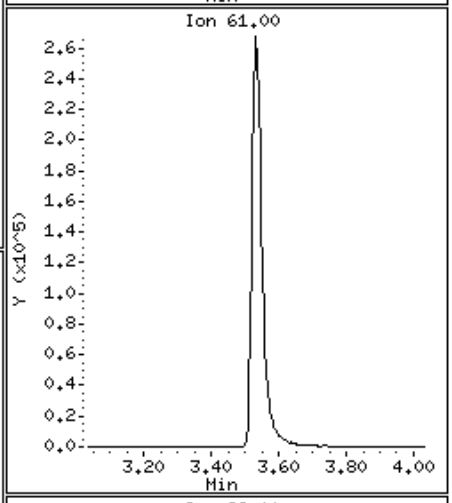


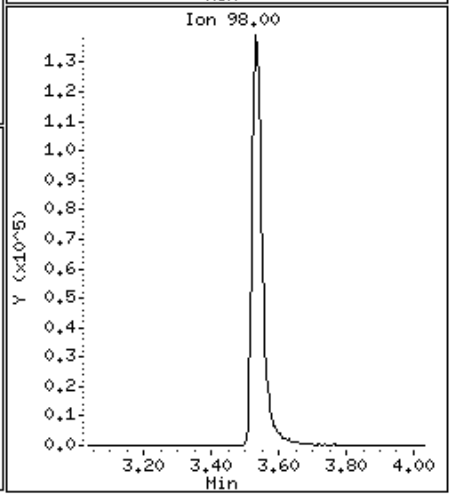












Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081915.D

Date : 19-AUG-2022 15:30

Client ID: HS22080933-04

Instrument: voa6.i

Sample Info: HS22080933-04;HS22080933-04;;;

Purge Volume: 5.0

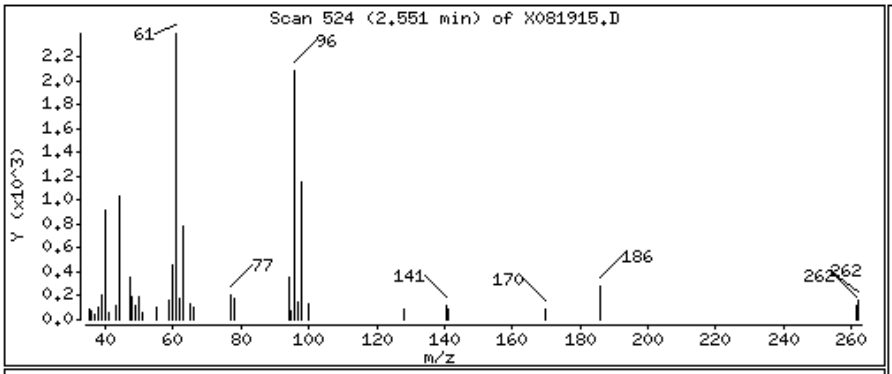
Operator: PC

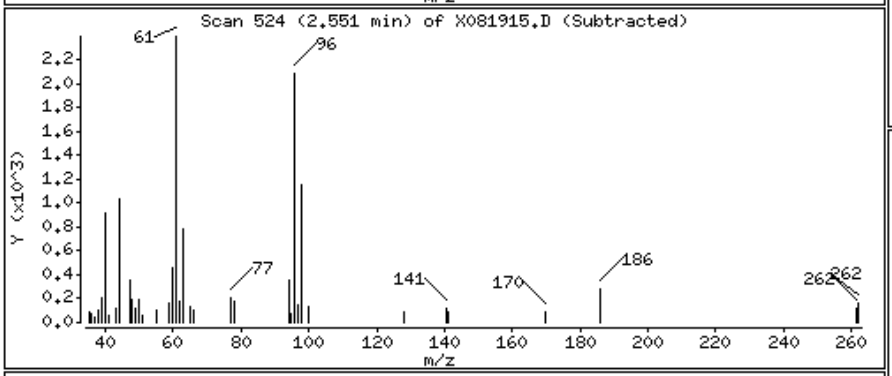
Column phase: DB624

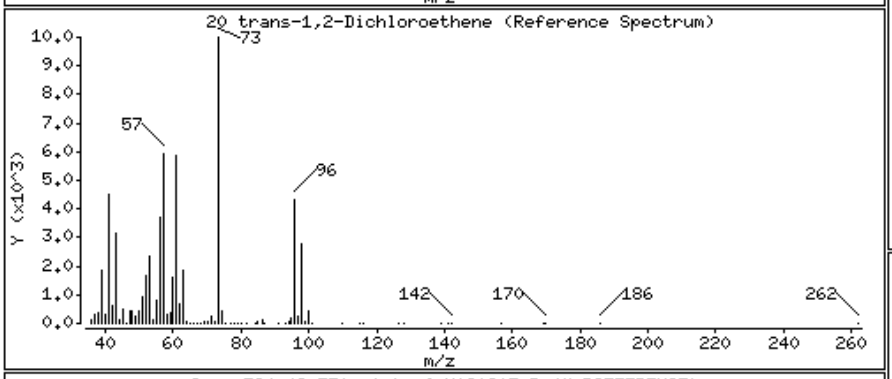
Column diameter: 0.18

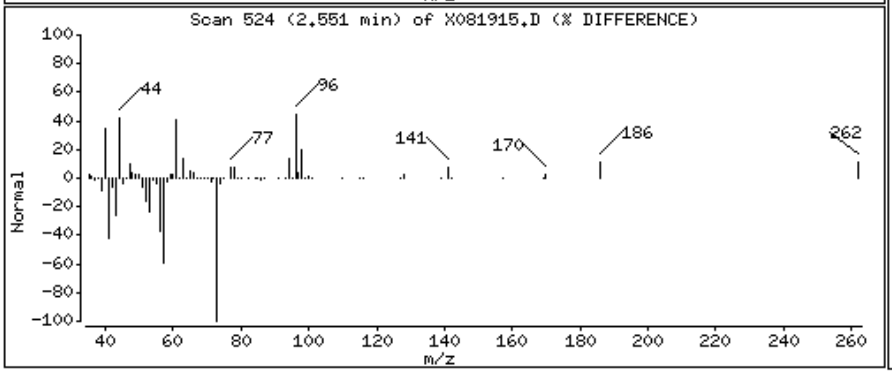
20 trans-1,2-Dichloroethene

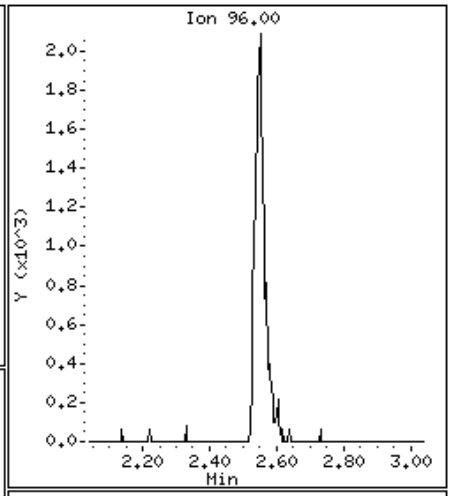
Concentration: 18.90 ug/l

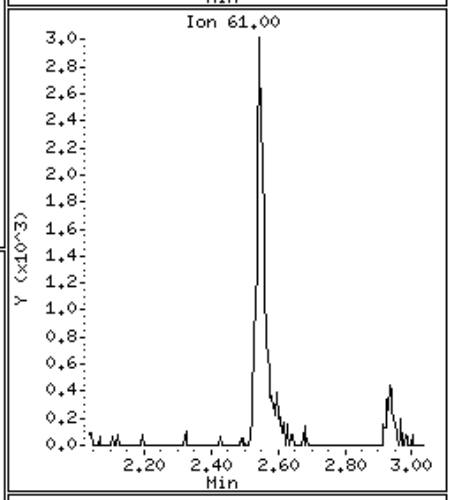


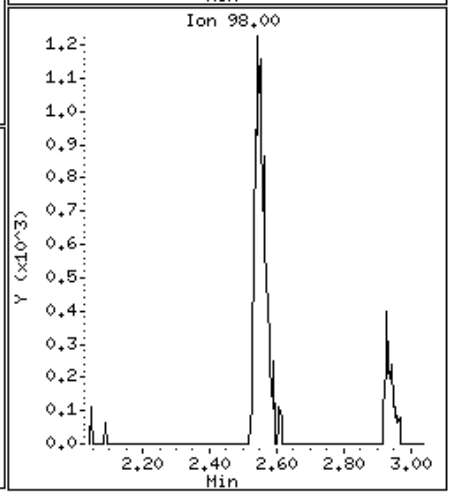












Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081915.D Page 7

Date : 19-AUG-2022 15:30

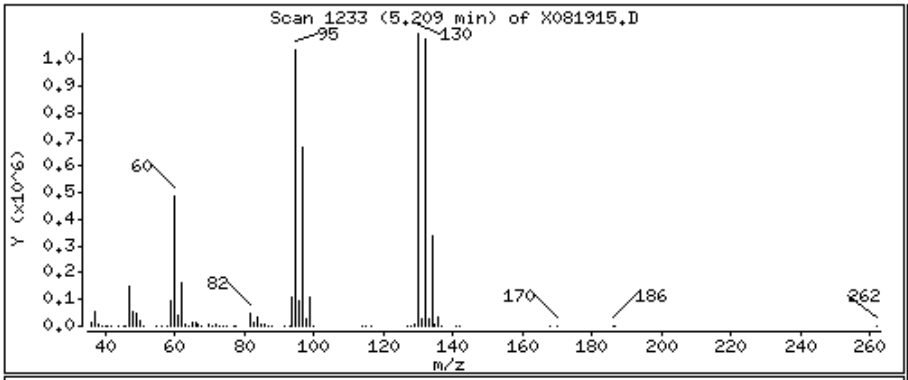
Client ID: HS22080933-04 Instrument: voa6.i

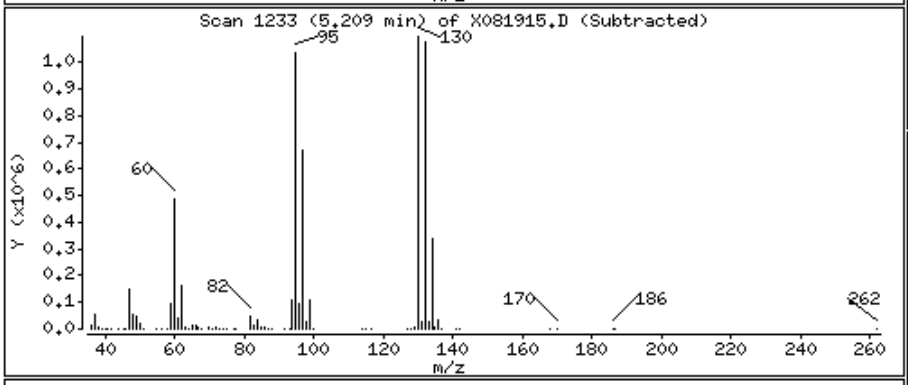
Sample Info: HS22080933-04;HS22080933-04;;;

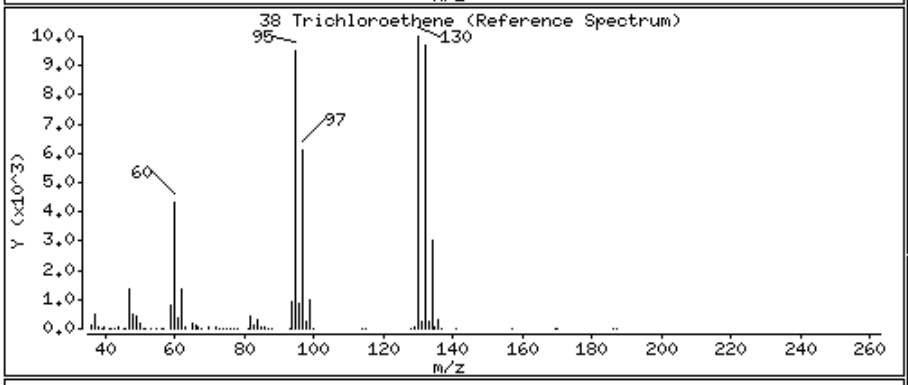
Purge Volume: 5.0 Operator: PC

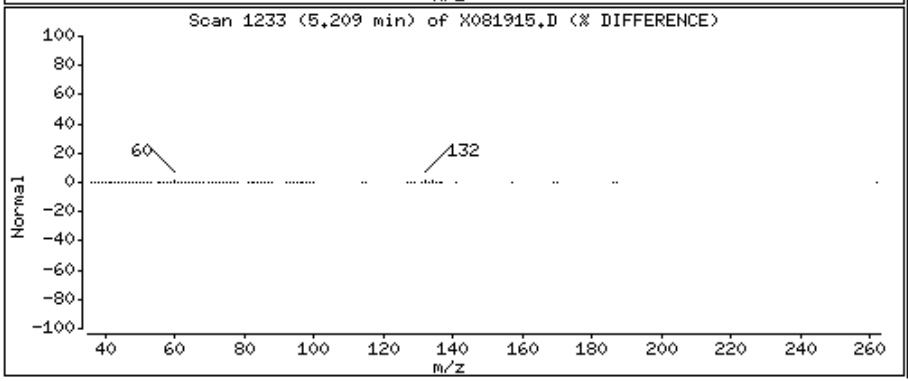
Column phase: DB624 Column diameter: 0.18

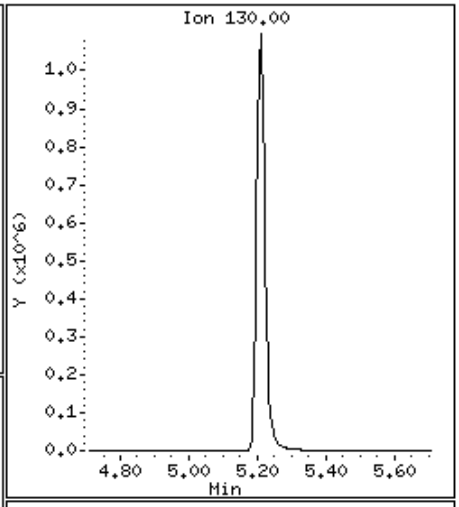
38 Trichloroethene Concentration: 7772.69 ug/l

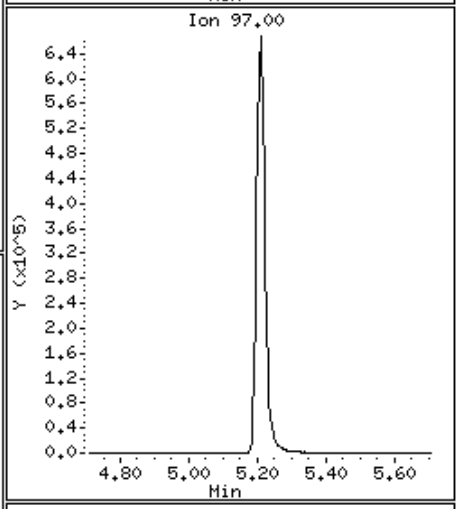


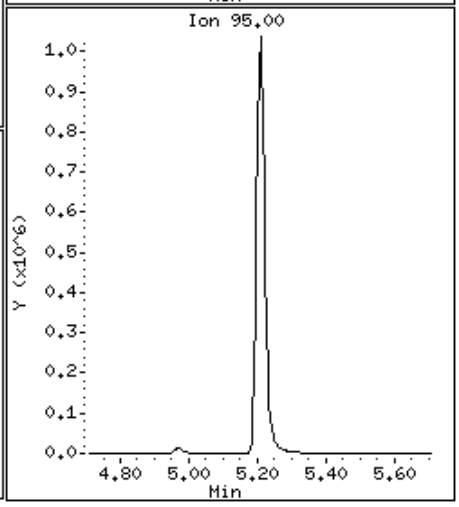












Data File : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081915.D
Inj Date : 19-AUG-2022 15:30
InstruID : voa6.i
LabSampID : HS22080933-04

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081916.D Page 1
Report Date: 08-Sep-2022 13:26

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081916.D
Lab Smp Id: HS22080933-03 Client Smp ID: HS22080933-03
Inj Date : 19-AUG-2022 15:51
Operator : PC Inst ID: voa6.i
Smp Info : HS22080933-03;HS22080933-03;;;
Misc Info : HS22052000V6;WATER;0;50;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\8260W.m
Meth Date : 08-Sep-2022 12:28 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 16
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	50.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.189	4.185	(1.000)	619950	50.0000	
* 36 1,4-Difluorobenzene	114	4.968	4.972	(1.000)	889487	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	785005	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.665	9.666	(1.000)	341491	50.0000	
$ 30 Dibromofluoromethane	113	4.103	4.106	(0.979)	276014	47.1391	47.13
$ 35 1,2-Dichloroethane-d4	65	4.477	4.474	(1.069)	306707	47.8550	47.85
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1034032	52.7943	52.79
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	339591	48.4520	48.45
11 1,1-Dichloroethene	96	1.925	1.925	(0.460)	8055	1.55649	77.82(a)
27 cis-1,2-Dichloroethene	96	3.536	3.533	(0.844)	88719	14.3944	719.71
38 Trichloroethene	130	5.208	5.208	(1.048)	784508	125.648	6282.41

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01141306

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081916.D

Date : 19-AUG-2022 15:51

Client ID: HS22080933-03

Instrument: voa6.i

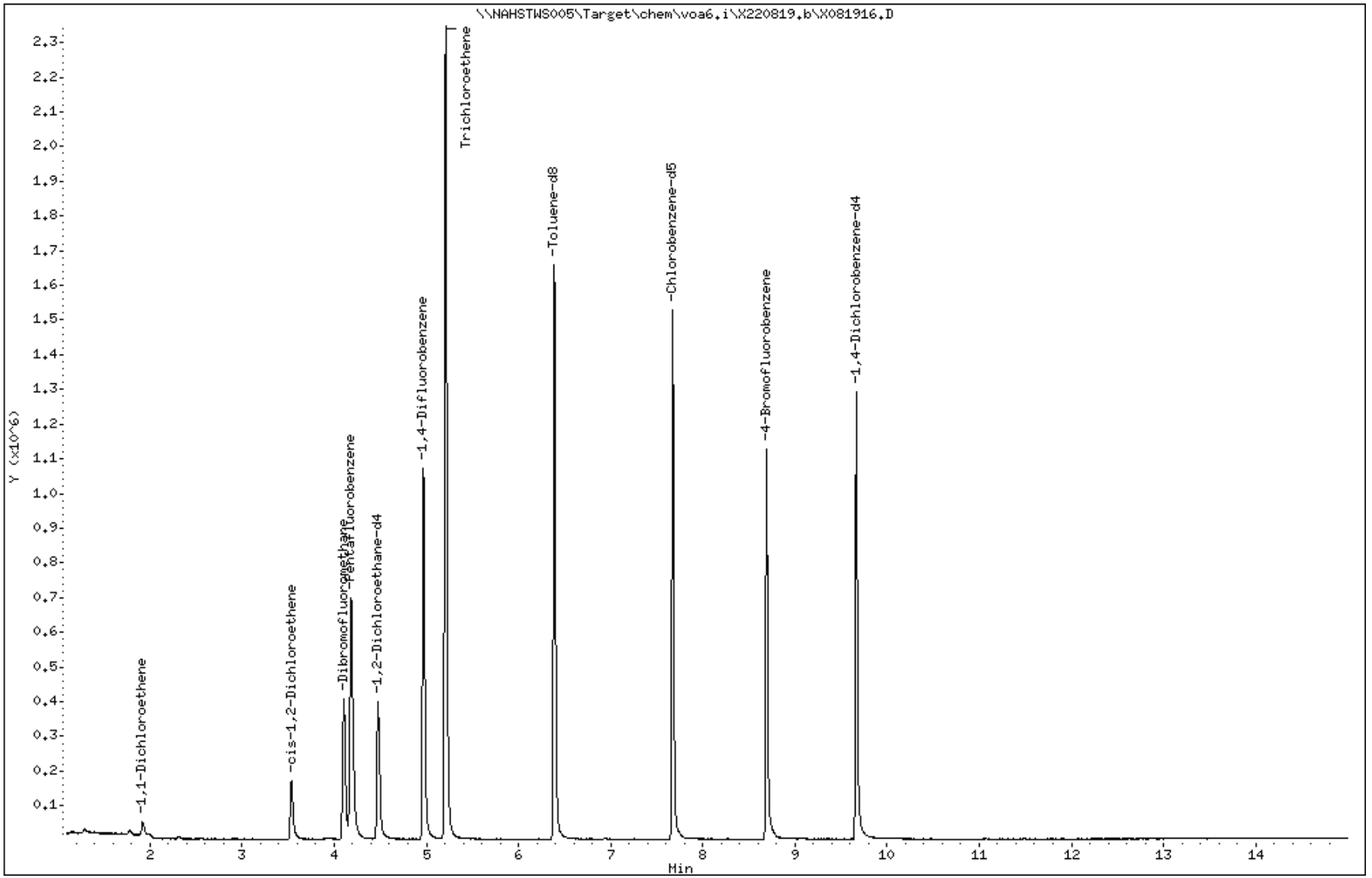
Sample Info: HS22080933-03;HS22080933-03;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081916.D

Date : 19-AUG-2022 15:51

Client ID: HS22080933-03

Instrument: voa6.i

Sample Info: HS22080933-03;HS22080933-03;;;

Purge Volume: 5.0

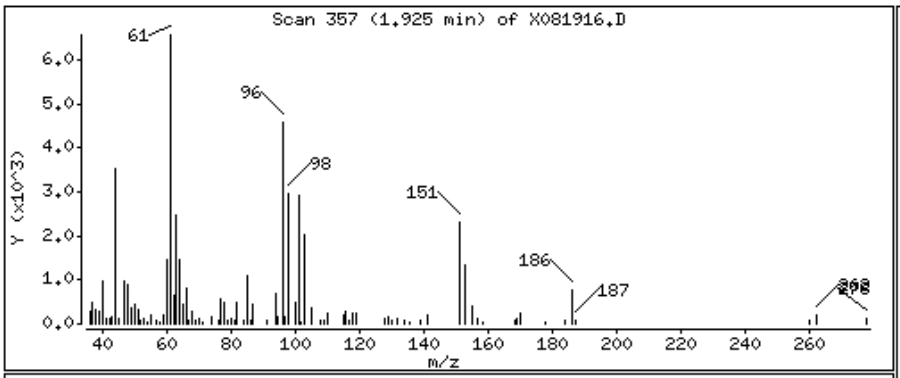
Operator: PC

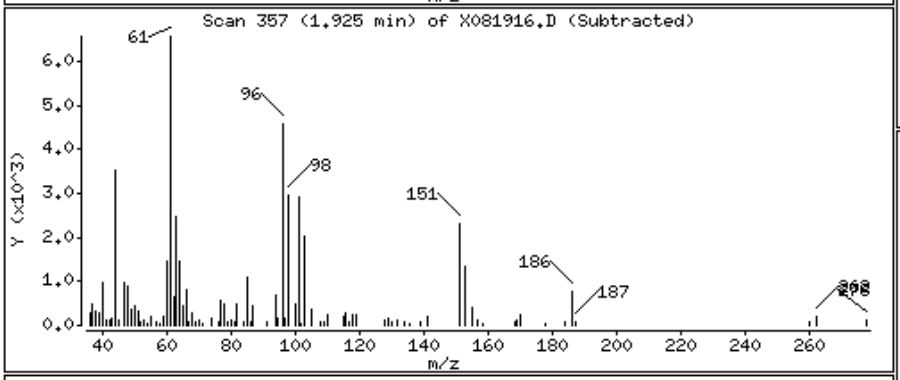
Column phase: DB624

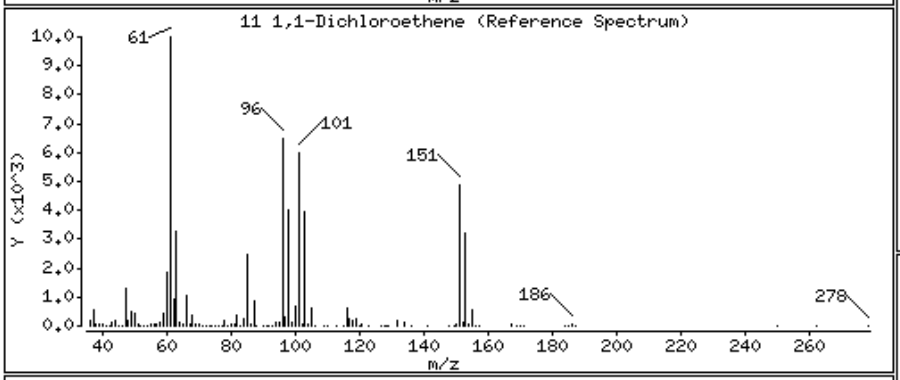
Column diameter: 0.18

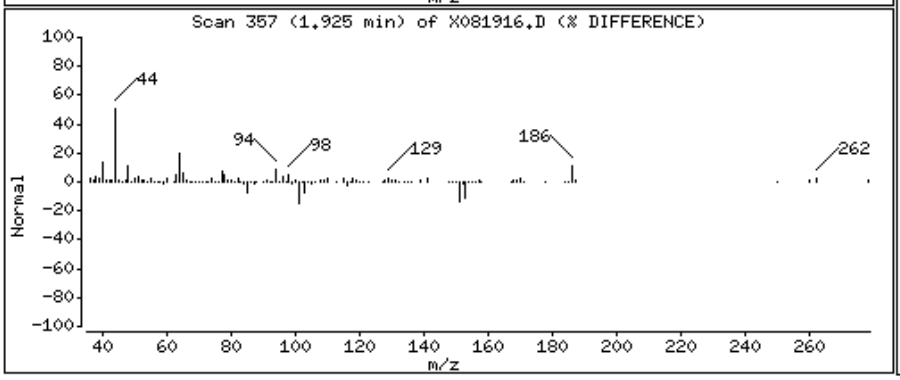
11 1,1-Dichloroethene

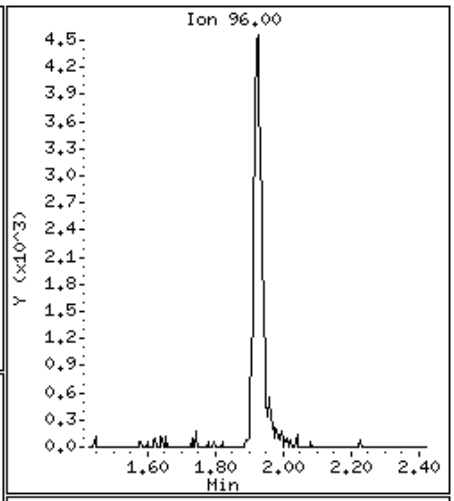
Concentration: 77.82 ug/l

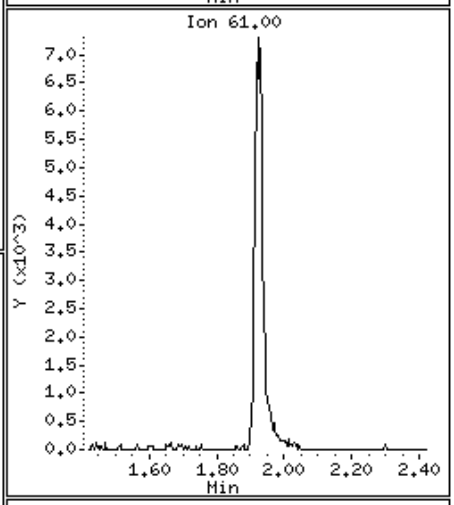


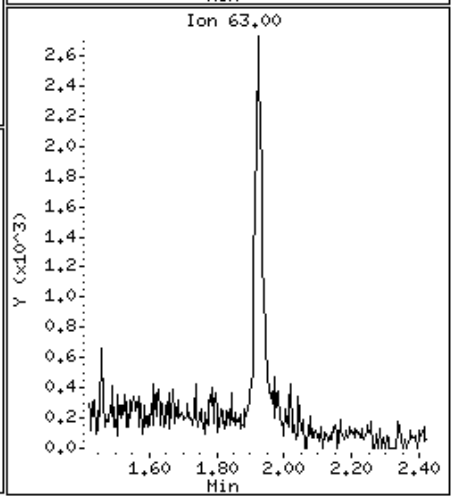












Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081916.D Page 3

Date : 19-AUG-2022 15:51

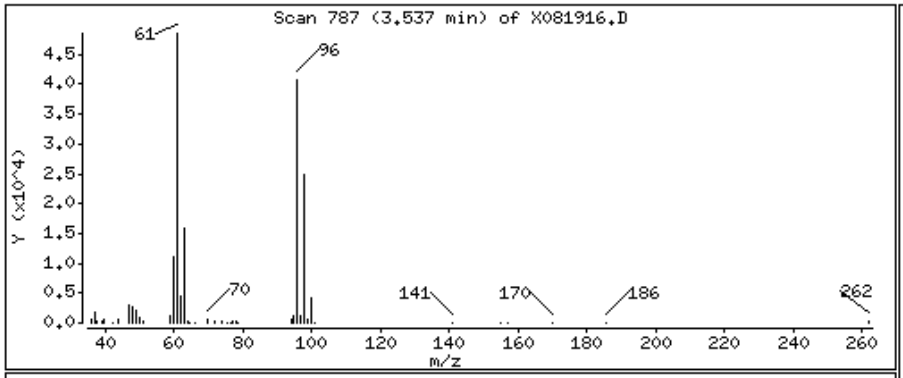
Client ID: HS22080933-03 Instrument: voa6.i

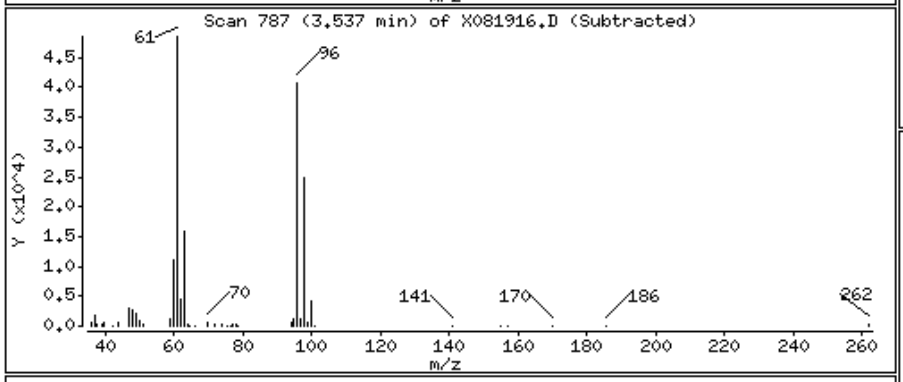
Sample Info: HS22080933-03;HS22080933-03;;;

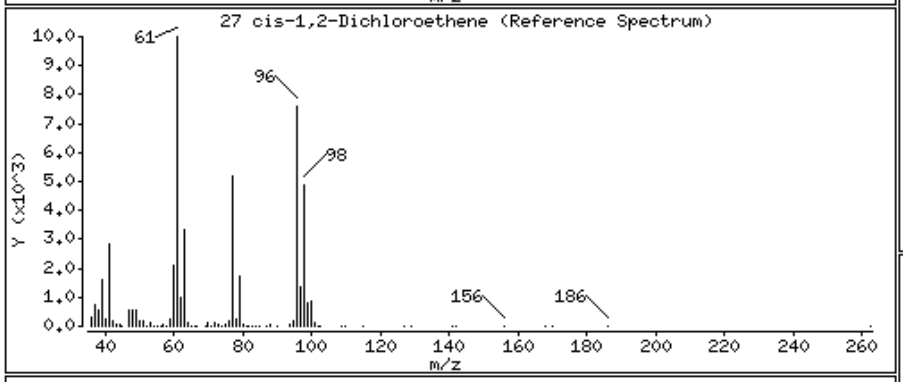
Purge Volume: 5.0 Operator: PC

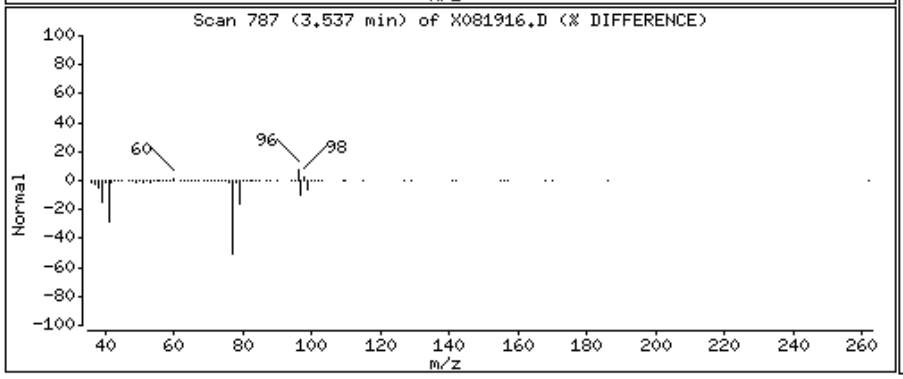
Column phase: DB624 Column diameter: 0.18

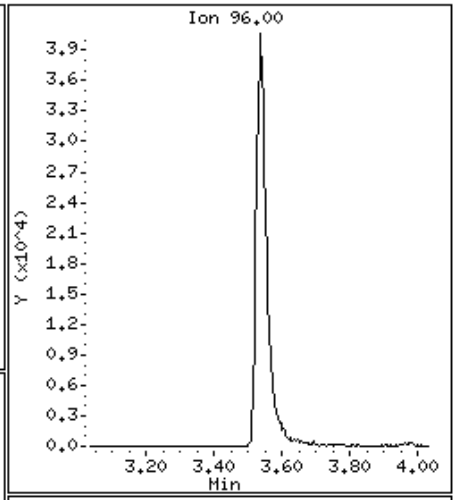
27 cis-1,2-Dichloroethene Concentration: 719.71 ug/l

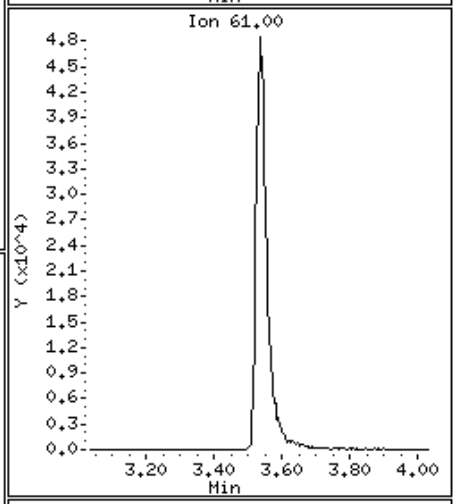


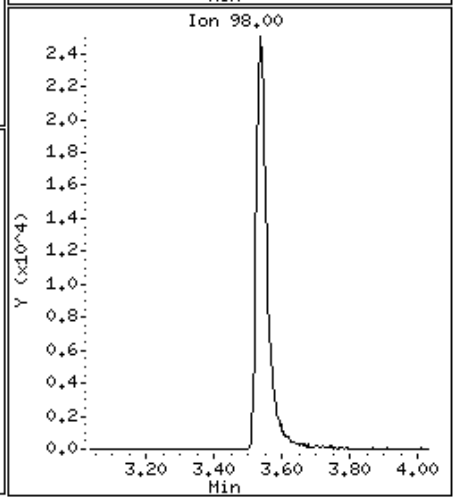












Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081916.D Page 4

Date : 19-AUG-2022 15:51

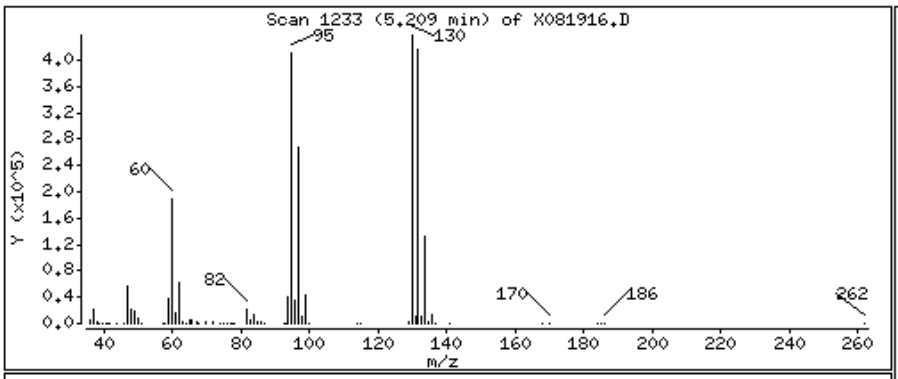
Client ID: HS22080933-03 Instrument: voa6.i

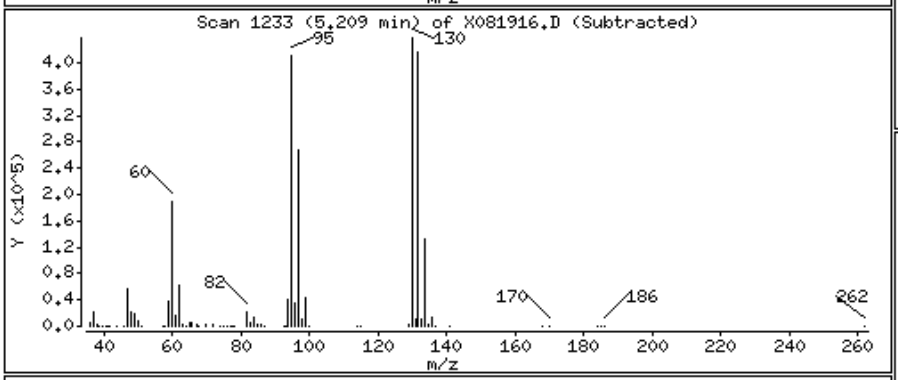
Sample Info: HS22080933-03;HS22080933-03;;;

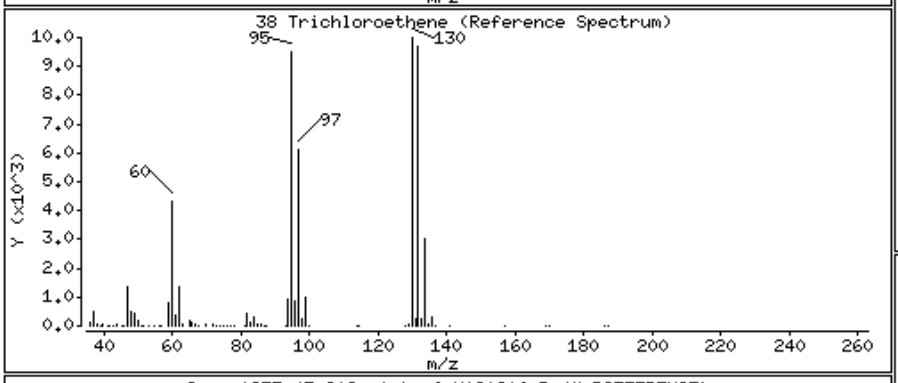
Purge Volume: 5.0 Operator: PC

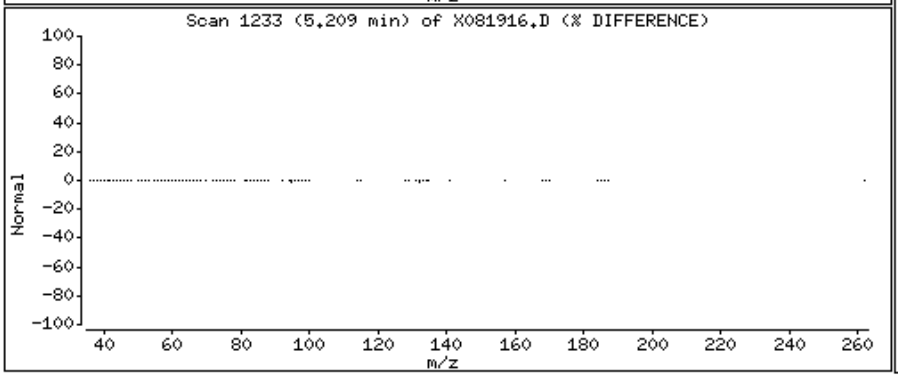
Column phase: DB624 Column diameter: 0.18

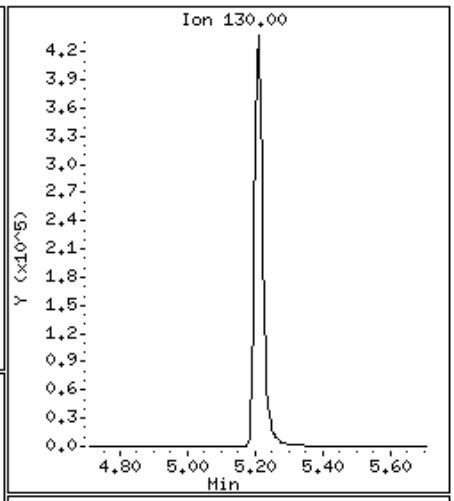
38 Trichloroethene Concentration: 6282.41 ug/l

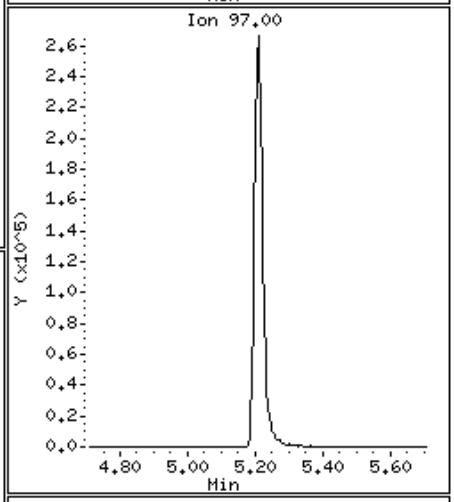


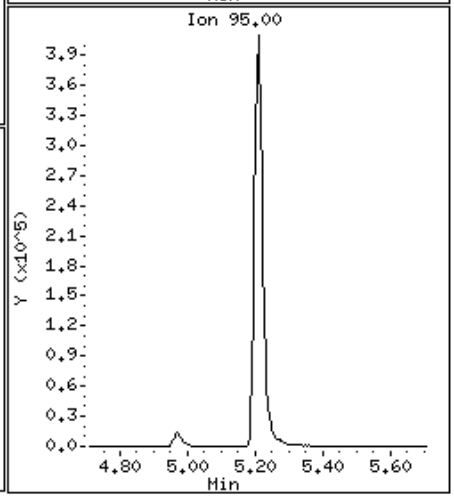












Data File : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081916.D
Inj Date : 19-AUG-2022 15:51
InstruID : voa6.i
LabSampID : HS22080933-03

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081917.D Page 1
Report Date: 08-Sep-2022 13:26

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081917.D
Lab Smp Id: HS22080933-01MS Client Smp ID: HS22080933-01MS
Inj Date : 19-AUG-2022 16:12
Operator : PC Inst ID: voa6.i
Smp Info : HS22080933-01MS;HS22080933-01MS;3;;MS
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\8260W.m
Meth Date : 08-Sep-2022 12:28 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 17 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

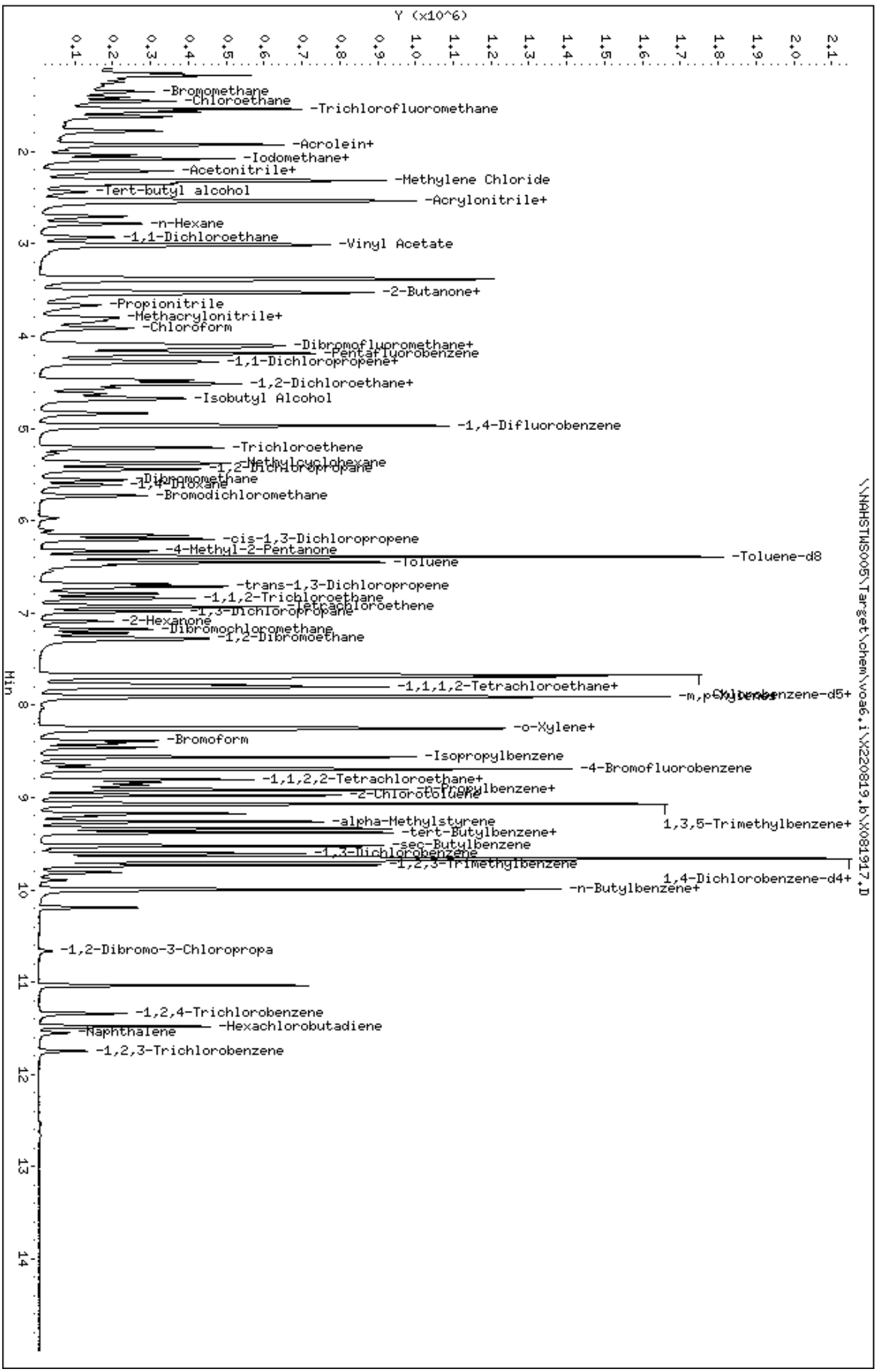
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.185	4.185	(1.000)	624696	50.0000	
* 36 1,4-Difluorobenzene	114	4.969	4.972	(1.000)	889570	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	805144	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.666	(1.000)	391626	50.0000	
$ 30 Dibromofluoromethane	113	4.106	4.106	(0.981)	283854	48.1247	48.12
$ 35 1,2-Dichloroethane-d4	65	4.478	4.474	(1.070)	310166	48.0283	48.02
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1050854	52.3112	52.31
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	367691	51.1949	51.19
60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	122668	21.6858	21.68
31 1,1,1-Trichloroethane	97	4.088	4.091	(0.977)	191865	21.6503	21.65
68 1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	117570	21.3753	21.37
53 1,1,2-Trichloroethane	83	6.839	6.843	(0.892)	89361	21.5865	21.58
22 1,1-Dichloroethane	63	2.929	2.929	(0.700)	198642	20.6548	20.65
11 1,1-Dichloroethene	96	1.921	1.925	(0.459)	105943	20.3162	20.31
32 1,1-Dichloropropene	75	4.286	4.282	(0.863)	162083	22.5760	22.57
93 1,2,3-Trichlorobenzene	180	11.746	11.742	(1.216)	39146	19.2279	19.22
71 1,2,3-Trichloropropane	75	8.867	8.867	(0.918)	92493	21.8100	21.81(M)
90 1,2,4-Trichlorobenzene	180	11.341	11.337	(1.174)	74296	20.8291	20.82
79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	426436	22.7007	22.70
89 1,2-Dibromo-3-Chloropropane	155	10.663	10.659	(1.104)	8153	20.4107	20.41

57 1,2-Dibromoethane	107	7.263	7.263 (0.947)	112237	21.3829	21.38
88 1,2-Dichlorobenzene	146	9.996	9.995 (1.035)	217452	22.1906	22.19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
33	1,2-Dichloroethane	62	4.564	4.560	(0.919)	163217	20.9207	20.92
42	1,2-Dichloropropane	63	5.441	5.437	(1.095)	116185	21.2194	21.21
75	1,3,5-Trimethylbenzene	105	9.070	9.066	(0.939)	436994	22.9722	22.97
83	1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	240975	22.1773	22.17
54	1,3-Dichloropropane	76	6.985	6.985	(0.911)	178758	21.2287	21.22
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	254920	22.0987	22.09
26	2,2-Dichloropropane	77	3.518	3.518	(0.841)	189164	22.0085	22.00
24	2-Butanone	43	3.589	3.585	(0.858)	60688	38.7250	38.72
76	2-Chlorotoluene	91	8.976	8.976	(0.929)	371233	22.1149	22.11
52	2-Hexanone	43	7.090	7.090	(0.924)	110853	43.7856	43.78
77	4-Chlorotoluene	91	9.073	9.070	(0.939)	420595	22.4476	22.44
82	p-Isopropyltoluene	119	9.651	9.651	(0.999)	457777	23.9642	23.96
45	4-Methyl-2-Pentanone	43	6.329	6.325	(0.825)	178454	45.4873	45.48
10	Acetone	43	1.985	1.981	(0.474)	44719	30.0285	30.02
37	Benzene	78	4.519	4.515	(0.909)	479406	22.7429	22.74
74	Bromobenzene	156	8.807	8.807	(0.912)	147720	22.0872	22.08
29	Bromochloromethane	128	3.799	3.799	(0.908)	67237	19.0894	19.08
39	Bromodichloromethane	83	5.730	5.729	(1.153)	159979	21.2943	21.29
66	Bromoform	173	8.414	8.413	(1.097)	77110	20.5017	20.50
6	Bromomethane	94	1.347	1.347	(0.322)	80546	18.0201	18.02
19	Carbon Disulfide	76	2.078	2.078	(0.497)	601633	43.5793	43.57
34	Carbon Tetrachloride	117	4.271	4.267	(0.860)	171802	22.3895	22.38
59	Chlorobenzene	112	7.694	7.698	(1.003)	337330	22.0963	22.09
7	Chloroethane	64	1.411	1.411	(0.337)	71371	17.8125	17.81(M)
28	Chloroform	83	3.912	3.911	(0.935)	216467	20.5434	20.54
3	Chloromethane	50	1.085	1.085	(0.259)	120023	20.7822	20.78
27	cis-1,2-Dichloroethene	96	3.533	3.533	(0.844)	365638	58.8728	58.87
46	cis-1,3-Dichloropropene	75	6.157	6.157	(1.239)	193813	21.0019	21.00
55	Dibromochloromethane	129	7.177	7.176	(0.936)	125362	20.9779	20.97
44	Dibromomethane	93	5.557	5.553	(1.118)	76285	20.7651	20.76
2	Dichlorodifluoromethane	85	0.980	0.980	(0.234)	113449	18.9555	18.95
61	Ethylbenzene	106	7.803	7.802	(1.017)	177661	23.0369	23.03
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	73434	22.2920	22.29
67	Isopropylbenzene	105	8.564	8.563	(1.116)	542543	23.3943	23.39
62	m,p-Xylenes	106	7.908	7.907	(1.031)	444533	46.3418	46.34
17	Methylene Chloride	84	2.311	2.311	(0.552)	117645	19.9647	19.96
87	n-Butylbenzene	91	9.996	9.995	(1.035)	389713	24.5521	24.55
73	n-Propylbenzene	91	8.912	8.912	(0.922)	628407	24.3236	24.32
92	Naphthalene	128	11.551	11.544	(1.196)	72400	18.1439	18.14
63	o-Xylene	106	8.245	8.245	(1.075)	208777	22.3883	22.38
81	sec-Butylbenzene	105	9.523	9.523	(0.986)	530229	24.0171	24.01
64	Styrene	104	8.264	8.260	(1.077)	340637	22.1818	22.18
78	tert-Butylbenzene	119	9.340	9.339	(0.967)	385347	23.9011	23.90
56	Tetrachloroethene	164	6.929	6.929	(0.903)	119661	22.9193	22.91
50	Toluene	91	6.449	6.449	(0.841)	507558	22.4257	22.42
20	trans-1,2-Dichloroethene	96	2.536	2.539	(0.606)	122492	22.2894	22.28
51	trans-1,3-Dichloropropene	75	6.686	6.682	(1.346)	160708	21.0280	21.02
38	Trichloroethene	130	5.212	5.208	(1.049)	158443	25.3742	25.37
8	Trichlorofluoromethane	101	1.569	1.568	(0.375)	204945	20.8338	20.83
5	Vinyl Chloride	62	1.153	1.152	(0.275)	127767	19.5049	19.50

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTNS005\Target\chem\voa6.i\X220819.b\X081917.D
Date : 19-AUG-2022 16:12
Client ID: HS22080933-01MS
Sample Info: HS22080933-01MS;HS22080933-01MS;3;;MS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

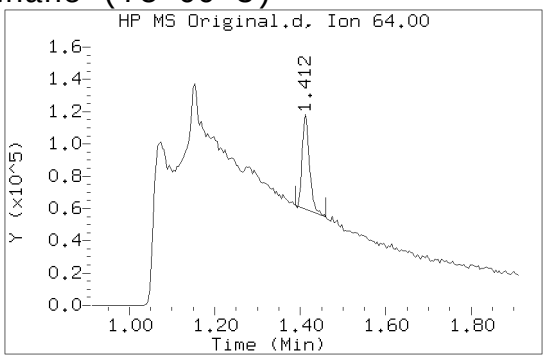
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081917.D
Inj Date : 19-AUG-2022 16:12
InstruID : voa6.i
LabSampID : HS22080933-01MS

Chloroethane (75-00-3)

Reason Code:

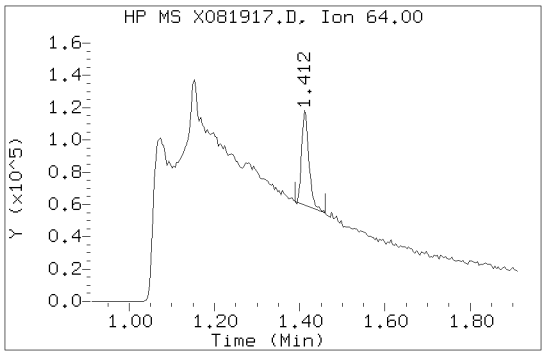
BEFORE

MASS
64
AREA
71371
HEIGHT
58584
08-Sep-2022
12:27
linh
pham



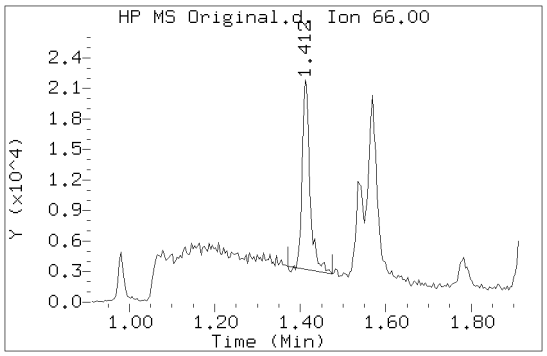
AFTER

MASS
64
AREA
71371
HEIGHT
58584
08-Sep-2022
13:26
linh
pham



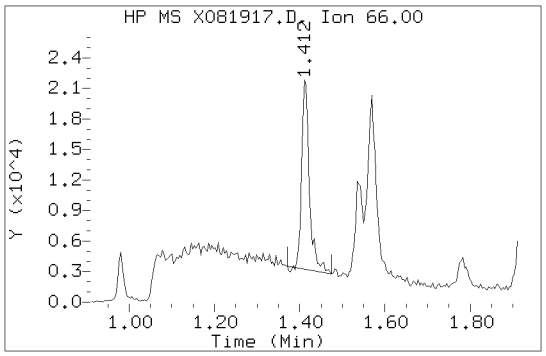
BEFORE

MASS
66
AREA
23951
HEIGHT
18580
08-Sep-2022
12:27
linh
pham



AFTER

MASS
66
AREA
23951
HEIGHT
18580
08-Sep-2022
13:26
linh
pham

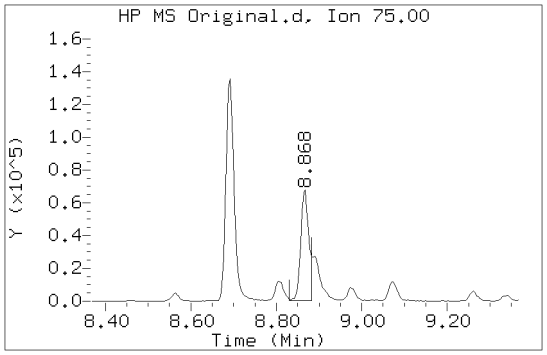


1,2,3-Trichloropropane (96-18-4)

Reason Code:

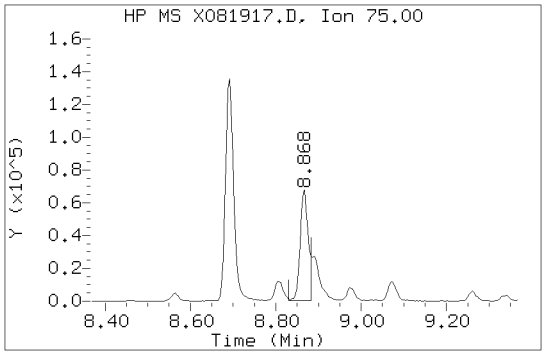
BEFORE

MASS
75
AREA
92493
HEIGHT
67697
08-Sep-2022
12:27
linh
pham



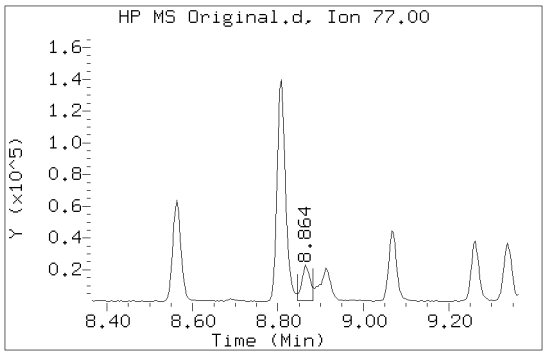
AFTER

MASS
75
AREA
92493
HEIGHT
67697
08-Sep-2022
13:26
linh
pham



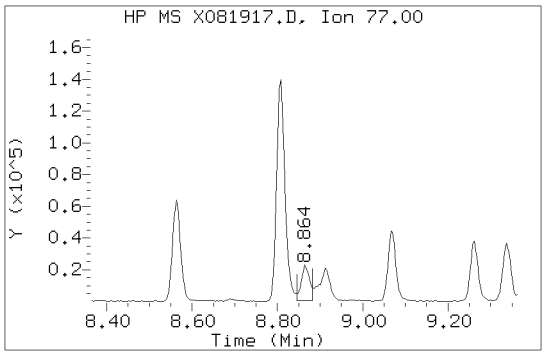
BEFORE

MASS
77
AREA
32189
HEIGHT
22533
08-Sep-2022
12:27
linh
pham



AFTER

MASS
77
AREA
32189
HEIGHT
22533
08-Sep-2022
13:26
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081918.D Page 1
Report Date: 08-Sep-2022 13:26

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081918.D
Lab Smp Id: HS22080933-01MSD Client Smp ID: HS22080933-01MSD
Inj Date : 19-AUG-2022 16:33
Operator : PC Inst ID: voa6.i
Smp Info : HS22080933-01MSD;HS22080933-01MSD;3;;MSD
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\8260W.m
Meth Date : 08-Sep-2022 12:28 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 17 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.185	4.185	(1.000)	641483	50.0000	
* 36 1,4-Difluorobenzene	114	4.968	4.972	(1.000)	919434	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	834524	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.665	9.666	(1.000)	412166	50.0000	
$ 30 Dibromofluoromethane	113	4.102	4.106	(0.980)	292524	48.2994	48.29
$ 35 1,2-Dichloroethane-d4	65	4.477	4.474	(1.070)	327415	49.3816	49.38
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1085835	52.1495	52.14
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	378785	50.8778	50.87
60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	119766	20.4274	20.42
31 1,1,1-Trichloroethane	97	4.087	4.091	(0.977)	189568	20.8313	20.83
68 1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	120329	20.7867	20.78
53 1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	87762	20.4539	20.45
22 1,1-Dichloroethane	63	2.929	2.929	(0.700)	198874	20.1378	20.13
11 1,1-Dichloroethene	96	1.925	1.925	(0.460)	103205	19.2732	19.27
32 1,1-Dichloropropene	75	4.286	4.282	(0.863)	161759	21.7990	21.79
93 1,2,3-Trichlorobenzene	180	11.746	11.742	(1.215)	49699	23.1949	23.19
71 1,2,3-Trichloropropane	75	8.867	8.867	(0.917)	96343	21.5857	21.58(M)
90 1,2,4-Trichlorobenzene	180	11.341	11.337	(1.173)	83582	22.2647	22.26
79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	425683	21.5313	21.53
89 1,2-Dibromo-3-Chloropropane	155	10.666	10.659	(1.104)	9627	22.8053	22.80

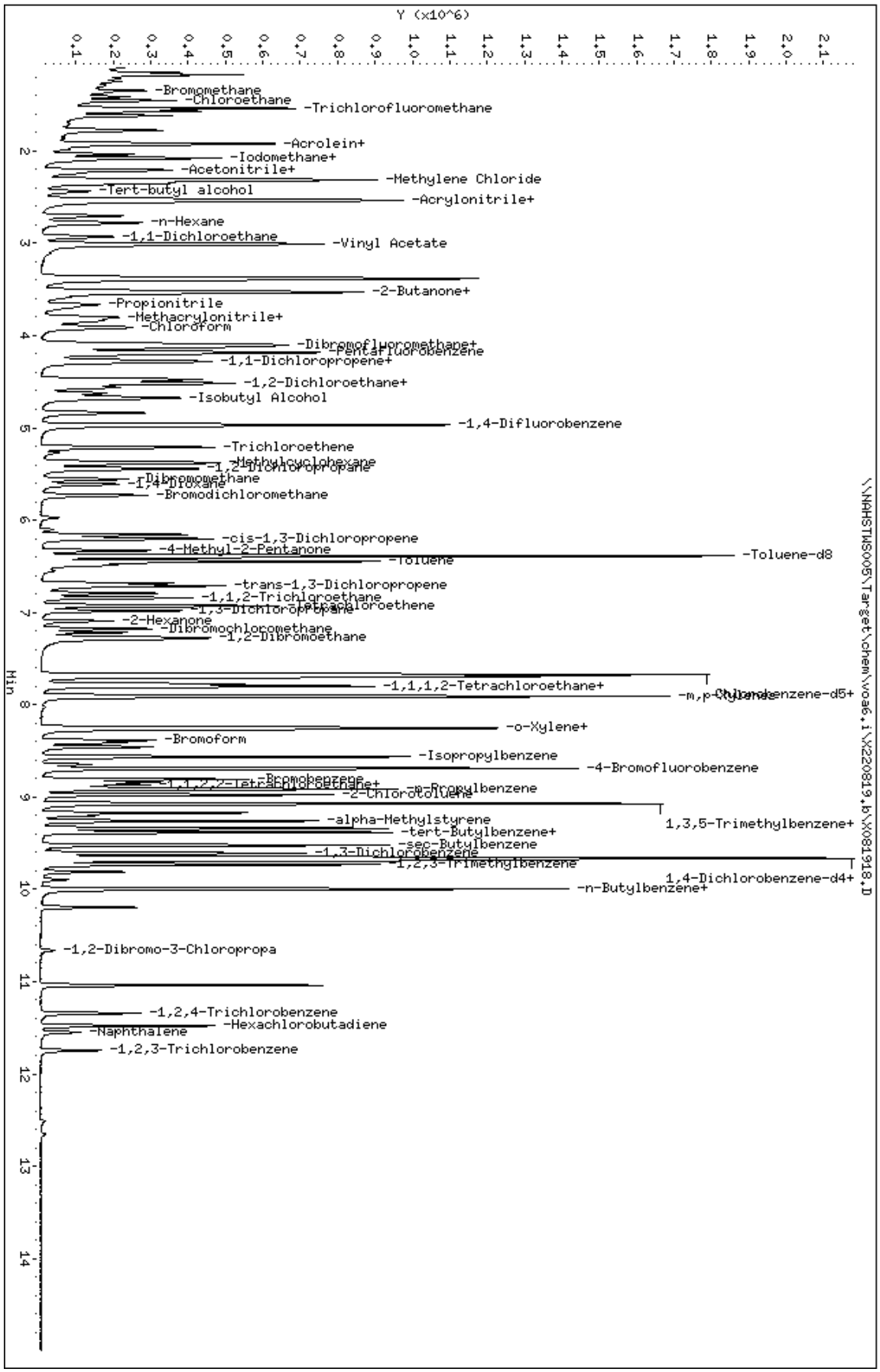
57	1,2-Dibromoethane	107	7.263	7.263 (0.947)	109655	20.1555	20.15
88	1,2-Dichlorobenzene	146	9.995	9.995 (1.034)	219365	21.2702	21.27

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081918.D Page 2
Report Date: 08-Sep-2022 13:26

		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
33	1,2-Dichloroethane	62	4.564	4.560	(0.919)	171303	21.2440	21.24
42	1,2-Dichloropropane	63	5.441	5.437	(1.095)	114672	20.2628	20.26
75	1,3,5-Trimethylbenzene	105	9.069	9.066	(0.938)	437493	21.8523	21.85
83	1,3-Dichlorobenzene	146	9.609	9.606	(0.994)	243331	21.2782	21.27
54	1,3-Dichloropropane	76	6.981	6.985	(0.910)	176257	20.1948	20.19
84	1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	255616	21.0548	21.05
26	2,2-Dichloropropane	77	3.518	3.518	(0.841)	186679	21.1414	21.14
24	2-Butanone	43	3.589	3.585	(0.858)	58031	36.0605	36.06
76	2-Chlorotoluene	91	8.976	8.976	(0.929)	364414	20.6269	20.62
52	2-Hexanone	43	7.090	7.090	(0.924)	109676	41.7956	41.79
77	4-Chlorotoluene	91	9.073	9.070	(0.939)	415269	21.0589	21.05
82	p-Isopropyltoluene	119	9.650	9.651	(0.998)	451932	22.4792	22.47
45	4-Methyl-2-Pentanone	43	6.329	6.325	(0.825)	175057	43.0505	43.05
10	Acetone	43	1.985	1.981	(0.474)	46491	30.4760	30.47
37	Benzene	78	4.519	4.515	(0.909)	470338	21.5879	21.58
74	Bromobenzene	156	8.807	8.807	(0.911)	145314	20.6447	20.64
29	Bromochloromethane	128	3.803	3.799	(0.909)	68350	18.8976	18.89
39	Bromodichloromethane	83	5.729	5.729	(1.153)	157745	20.3150	20.31
66	Bromoform	173	8.413	8.413	(1.097)	77386	19.8899	19.88
6	Bromomethane	94	1.347	1.347	(0.322)	66917	14.3174	14.31
19	Carbon Disulfide	76	2.078	2.078	(0.497)	585300	41.2868	41.28
34	Carbon Tetrachloride	117	4.271	4.267	(0.860)	169036	21.3135	21.31
59	Chlorobenzene	112	7.697	7.698	(1.003)	334884	21.1638	21.16
7	Chloroethane	64	1.411	1.411	(0.337)	66517	16.1666	16.16(M)
28	Chloroform	83	3.911	3.911	(0.935)	213958	19.7739	19.77
3	Chloromethane	50	1.085	1.085	(0.259)	112898	19.0413	19.04
27	cis-1,2-Dichloroethene	96	3.533	3.533	(0.844)	360501	56.5267	56.52
46	cis-1,3-Dichloropropene	75	6.160	6.157	(1.240)	191652	20.0932	20.09
55	Dibromochloromethane	129	7.176	7.176	(0.936)	125768	20.3049	20.30
44	Dibromomethane	93	5.557	5.553	(1.118)	75825	19.9695	19.96
2	Dichlorodifluoromethane	85	0.980	0.980	(0.234)	108900	17.7079	17.70
61	Ethylbenzene	106	7.802	7.802	(1.017)	174016	21.7699	21.76
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	76475	22.0582	22.05
67	Isopropylbenzene	105	8.563	8.563	(1.116)	537850	22.3754	22.37
62	m,p-Xylenes	106	7.907	7.907	(1.031)	435347	43.7864	43.78
17	Methylene Chloride	84	2.314	2.311	(0.553)	117902	19.4637	19.46
87	n-Butylbenzene	91	9.995	9.995	(1.034)	393433	23.5513	23.55
73	n-Propylbenzene	91	8.912	8.912	(0.922)	621246	22.8481	22.84
92	Naphthalene	128	11.551	11.544	(1.195)	93532	22.2716	22.27
63	o-Xylene	106	8.245	8.245	(1.075)	204294	21.1363	21.13
81	sec-Butylbenzene	105	9.523	9.523	(0.985)	523143	22.5152	22.51
64	Styrene	104	8.263	8.260	(1.077)	335933	21.1053	21.10
78	tert-Butylbenzene	119	9.339	9.339	(0.966)	378168	22.2869	22.28
56	Tetrachloroethene	164	6.929	6.929	(0.903)	114337	21.1286	21.12
50	Toluene	91	6.449	6.449	(0.841)	498167	21.2358	21.23
20	trans-1,2-Dichloroethene	96	2.539	2.539	(0.607)	120285	21.3150	21.31
51	trans-1,3-Dichloropropene	75	6.685	6.682	(1.346)	159591	20.2036	20.20
38	Trichloroethene	130	5.212	5.208	(1.049)	156697	24.2795	24.27
8	Trichlorofluoromethane	101	1.568	1.568	(0.375)	201963	19.9934	19.99
5	Vinyl Chloride	62	1.152	1.152	(0.275)	121433	18.0529	18.05

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081918.D
Date : 19-AUG-2022 16:33
Client ID: HS22080933-01MSD
Sample Info: HS22080933-01MSD;HS22080933-01MSD;3;;MSD
Purge Volume: 5.0
Column phase: DB624

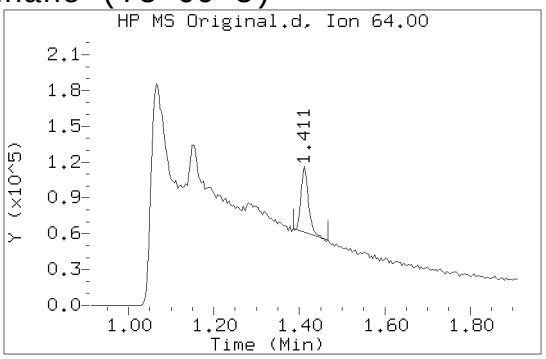
Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081918.D
Inj Date : 19-AUG-2022 16:33
InstruID : voa6.i
LabSampID : HS22080933-01MSD

Chloroethane (75-00-3)

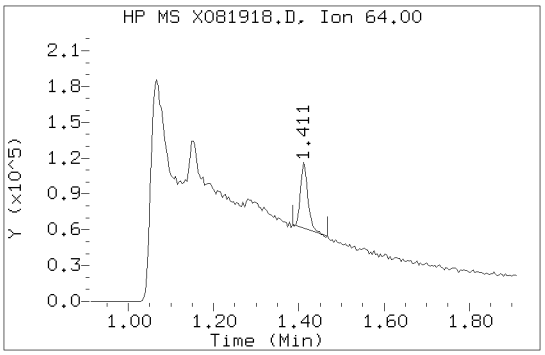
BEFORE

MASS
64
AREA
66517
HEIGHT
55094
08-Sep-2022
12:27
linh
pham



AFTER

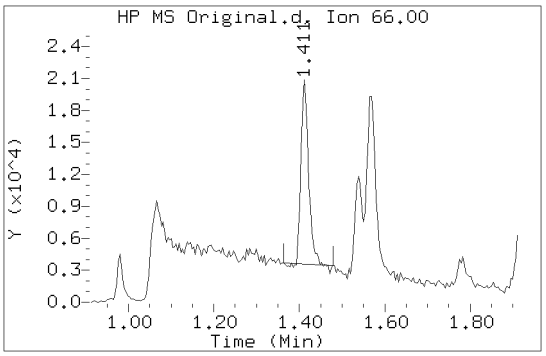
MASS
64
AREA
66517
HEIGHT
55094
08-Sep-2022
13:26
linh
pham



Reason Code:

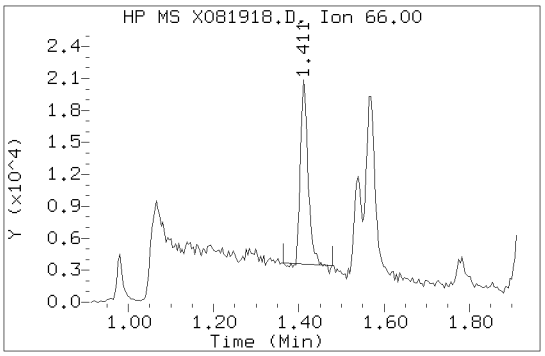
BEFORE

MASS
66
AREA
21574
HEIGHT
17281
08-Sep-2022
12:27
linh
pham



AFTER

MASS
66
AREA
21574
HEIGHT
17281
08-Sep-2022
13:26
linh
pham

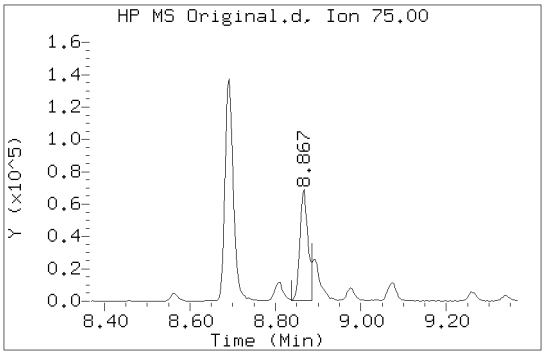


Reason Code:

1,2,3-Trichloropropane (96-18-4)

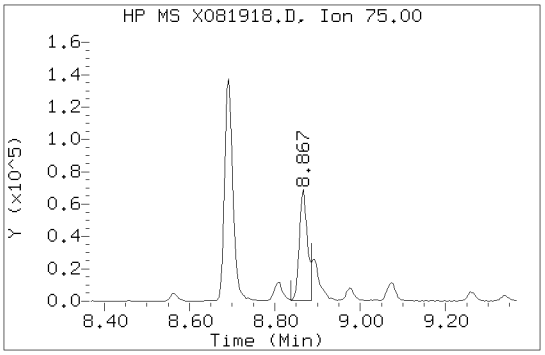
BEFORE

MASS
75
AREA
96343
HEIGHT
68936
08-Sep-2022
12:27
linh
pham



AFTER

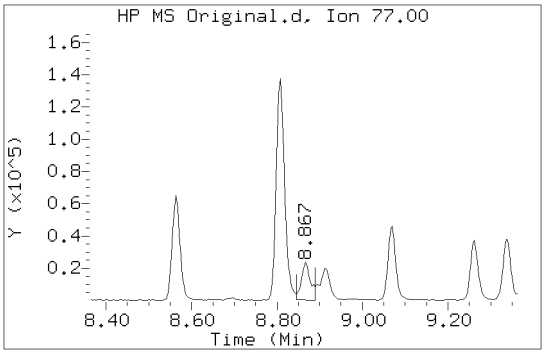
MASS
75
AREA
96343
HEIGHT
68936
08-Sep-2022
13:26
linh
pham



Reason Code:

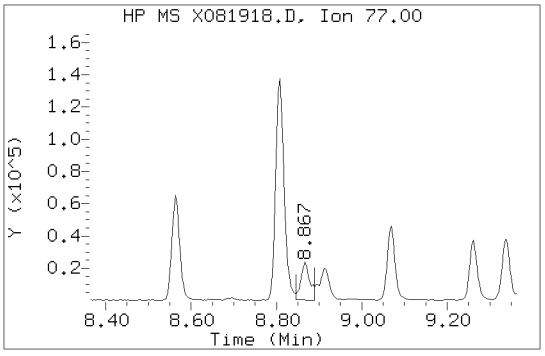
BEFORE

MASS
77
AREA
36330
HEIGHT
23577
08-Sep-2022
12:27
linh
pham



AFTER

MASS
77
AREA
36330
HEIGHT
23577
08-Sep-2022
13:26
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081919.D Page 1
Report Date: 08-Sep-2022 13:26

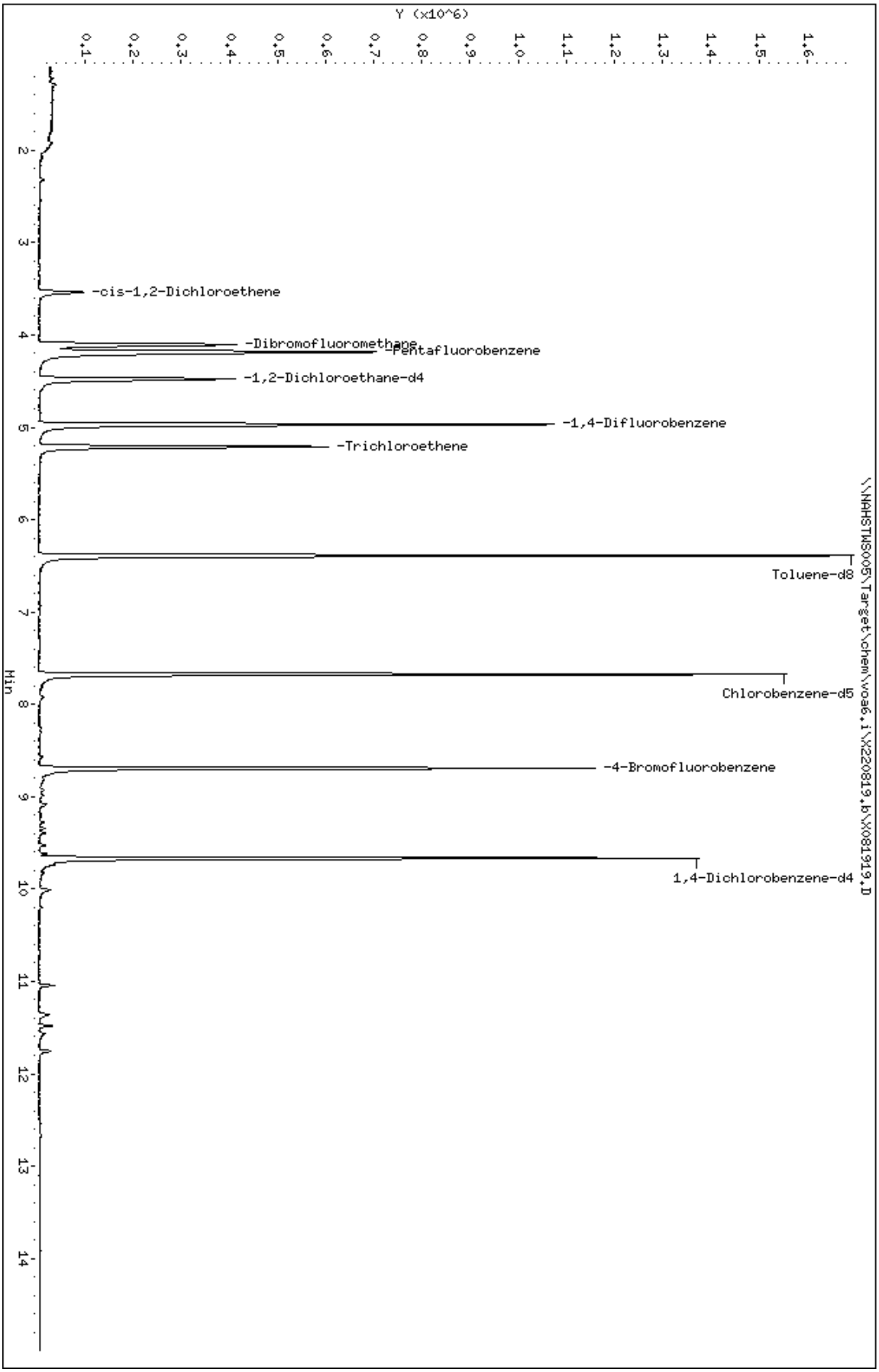
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081919.D
Lab Smp Id: HS22080933-04 Client Smp ID: HS22080933-04
Inj Date : 19-AUG-2022 16:54
Operator : PC Inst ID: voa6.i
Smp Info : HS22080933-04;HS22080933-04;;;
Misc Info : HS22052000V6;WATER;0;250;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\8260W.m
Meth Date : 08-Sep-2022 12:28 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 18
Dil Factor: 250.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	250.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.185	4.185	(1.000)	633783	50.0000	
* 36 1,4-Difluorobenzene	114	4.968	4.972	(1.000)	899034	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	784365	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.665	9.666	(1.000)	350126	50.0000	
$ 30 Dibromofluoromethane	113	4.106	4.106	(0.981)	283991	47.4475	47.44
$ 35 1,2-Dichloroethane-d4	65	4.477	4.474	(1.070)	316323	48.2811	48.28
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1042069	53.2481	53.24
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	333835	47.6563	47.65
27 cis-1,2-Dichloroethene	96	3.536	3.533	(0.845)	49648	7.87941	1969.85
38 Trichloroethene	130	5.208	5.208	(1.048)	205531	32.5687	8142.17



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081919.D
Date : 19-AUG-2022 16:54
Client ID: HS220809333-04
Sample Info: HS220809333-04;HS220809333-04;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081919.D

Date : 19-AUG-2022 16:54

Client ID: HS22080933-04

Instrument: voa6.i

Sample Info: HS22080933-04;HS22080933-04;;;

Purge Volume: 5.0

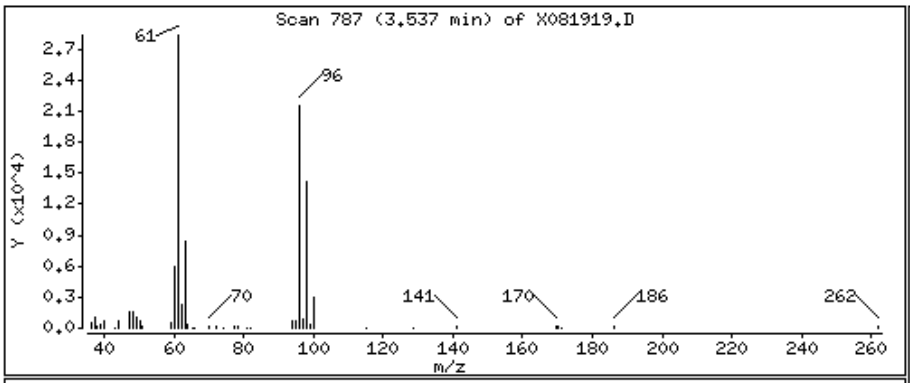
Operator: PC

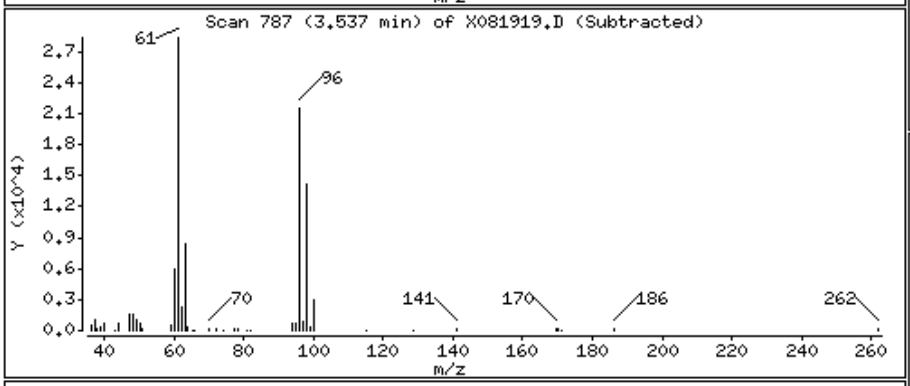
Column phase: DB624

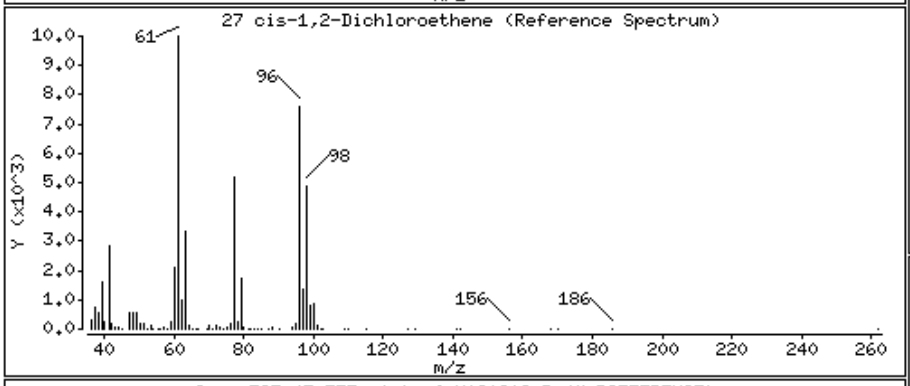
Column diameter: 0.18

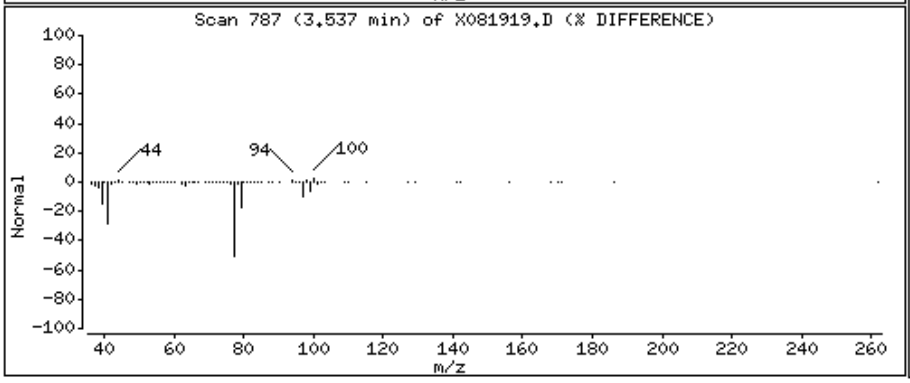
27 cis-1,2-Dichloroethene

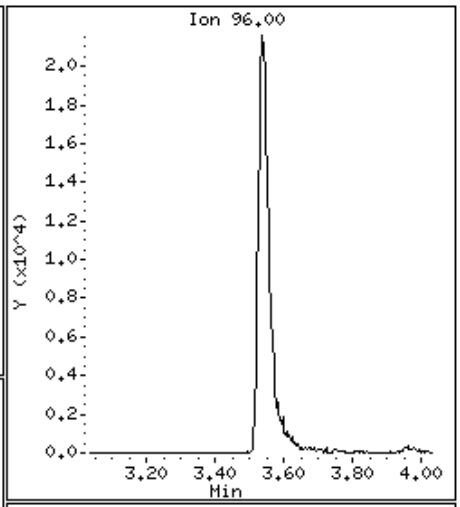
Concentration: 1969.85 ug/l

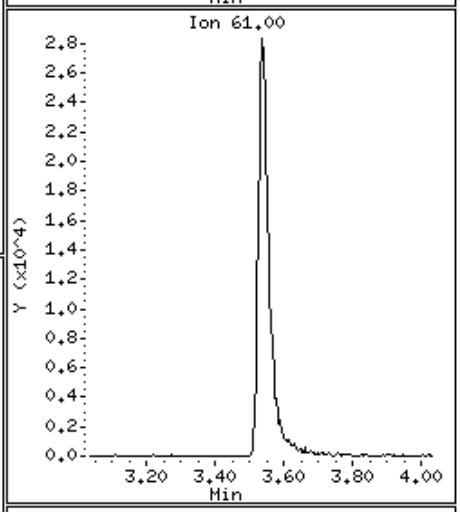


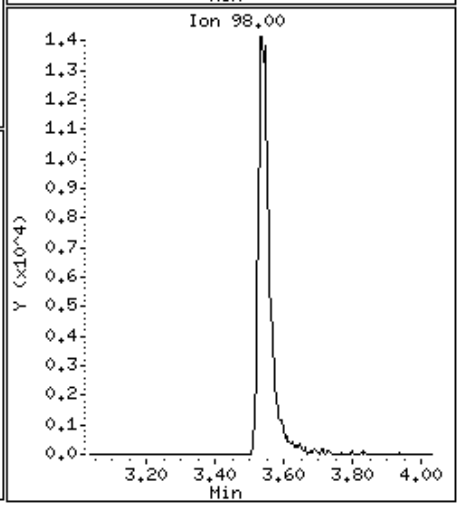












Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081919.D Page 3

Date : 19-AUG-2022 16:54

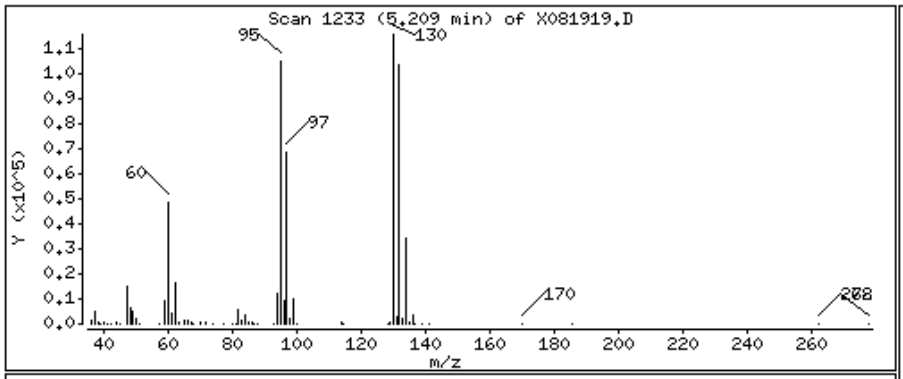
Client ID: HS22080933-04 Instrument: voa6.i

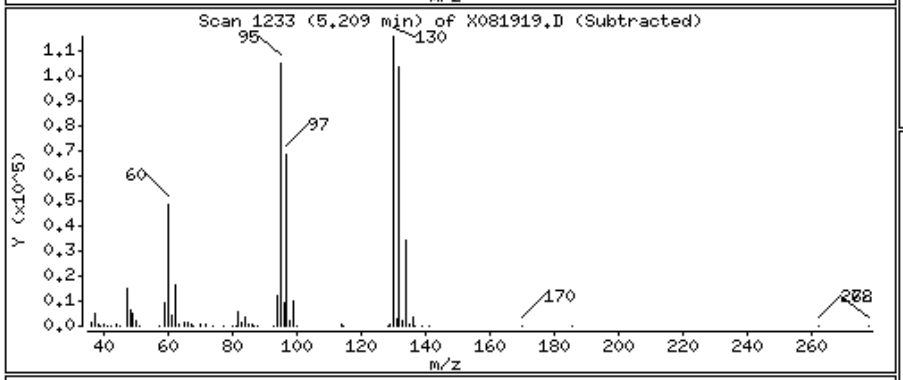
Sample Info: HS22080933-04;HS22080933-04;;;

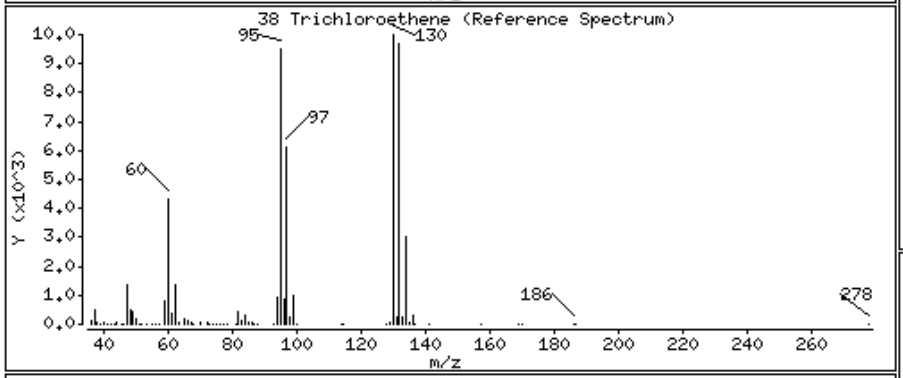
Purge Volume: 5.0 Operator: PC

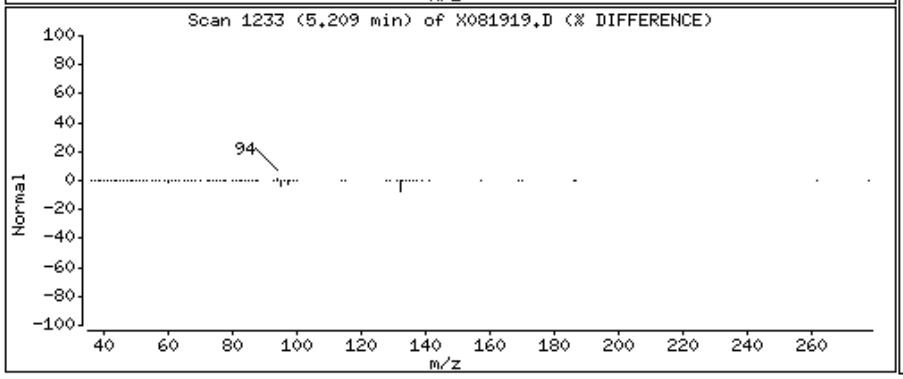
Column phase: DB624 Column diameter: 0.18

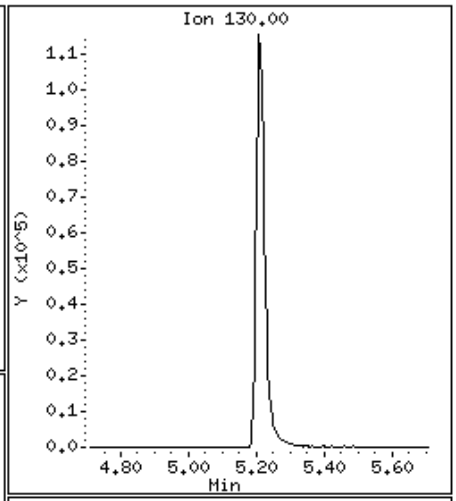
38 Trichloroethene Concentration: 8142.17 ug/l

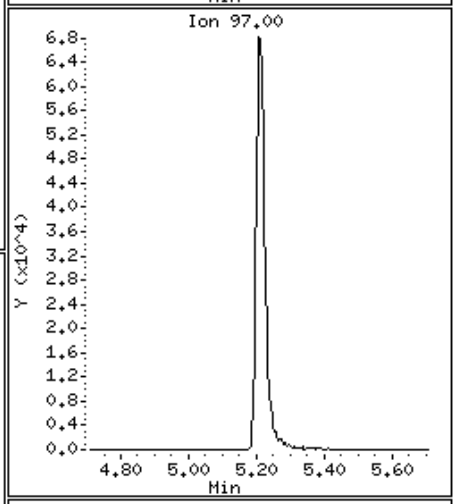


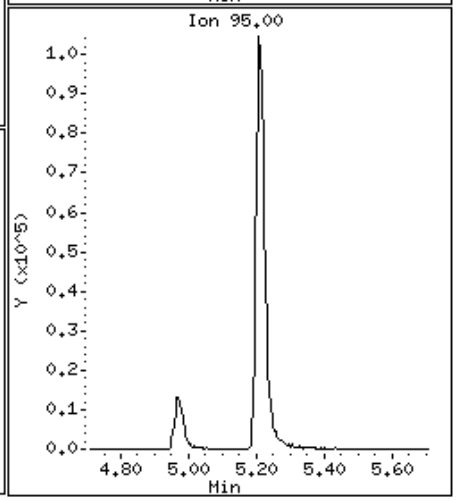












Data File : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081919.D
Inj Date : 19-AUG-2022 16:54
InstruID : voa6.i
LabSampID : HS22080933-04

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081930.D Page 1
Report Date: 08-Sep-2022 13:26

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081930.D
Lab Smp Id: HS22080933-03 Client Smp ID: HS22080933-03
Inj Date : 19-AUG-2022 20:45
Operator : PC Inst ID: voa6.i
Smp Info : HS22080933-03;HS22080933-03;;;
Misc Info : HS22052000V6;WATER;0;10;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\8260W.m
Meth Date : 08-Sep-2022 12:28 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 29
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.189	4.185	(1.000)	613762	50.0000	
* 36 1,4-Difluorobenzene	114	4.969	4.972	(1.000)	877446	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	760022	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.666	9.666	(1.000)	332207	50.0000	
$ 30 Dibromofluoromethane	113	4.106	4.106	(0.980)	275797	47.5836	47.58
$ 35 1,2-Dichloroethane-d4	65	4.478	4.474	(1.069)	304115	47.9295	47.92
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1020440	53.8130	53.81
$ 69 4-Bromofluorobenzene	95	8.695	8.691	(1.133)	319876	47.1170	47.11
22 1,1-Dichloroethane	63	2.933	2.929	(0.700)	10949	1.15876	11.58(a)
11 1,1-Dichloroethene	96	1.921	1.925	(0.459)	40109	7.82852	78.28
33 1,2-Dichloroethane	62	4.567	4.560	(0.919)	11438	1.48635	14.86(a)
28 Chloroform	83	3.915	3.911	(0.935)	13558	1.30962	13.09(a)
27 cis-1,2-Dichloroethene	96	3.533	3.533	(0.843)	499513	81.8614	818.61
20 trans-1,2-Dichloroethene	96	2.547	2.539	(0.608)	3853	0.71361	7.13(a)
38 Trichloroethene	130	5.208	5.208	(1.048)	4342049	704.974	7049.74(A)
5 Vinyl Chloride	62	1.152	1.152	(0.275)	4744	0.73712	7.37(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.

01141330

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081930.D

Page 1

Date : 19-AUG-2022 20:45

Client ID: HS22080933-03

Instrument: voa6.i

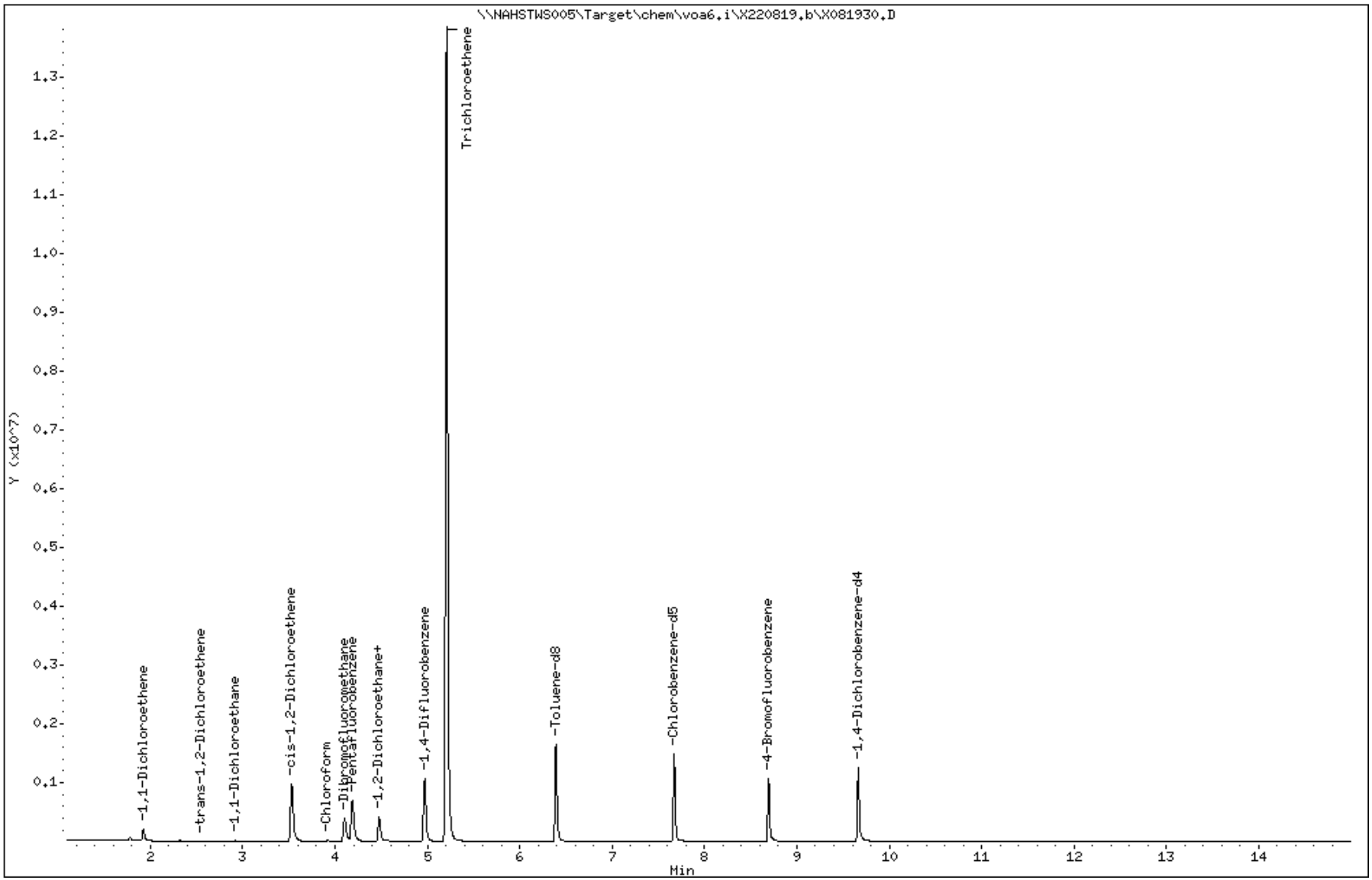
Sample Info: HS22080933-03;HS22080933-03;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081930.D Page 2

Date : 19-AUG-2022 20:45

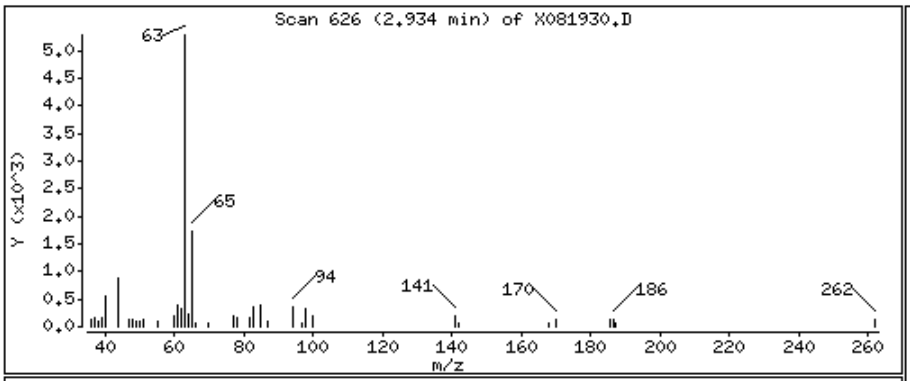
Client ID: HS22080933-03 Instrument: voa6.i

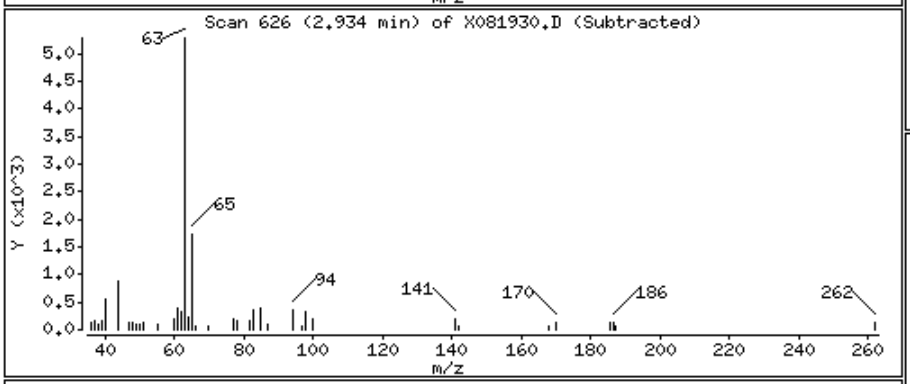
Sample Info: HS22080933-03;HS22080933-03;;;

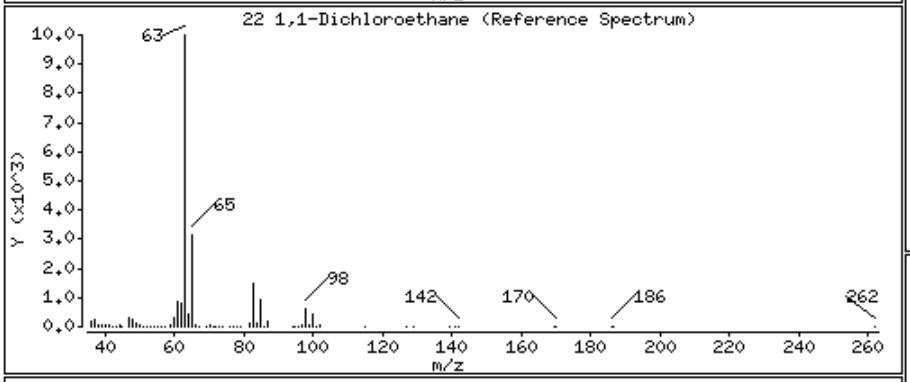
Purge Volume: 5.0 Operator: PC

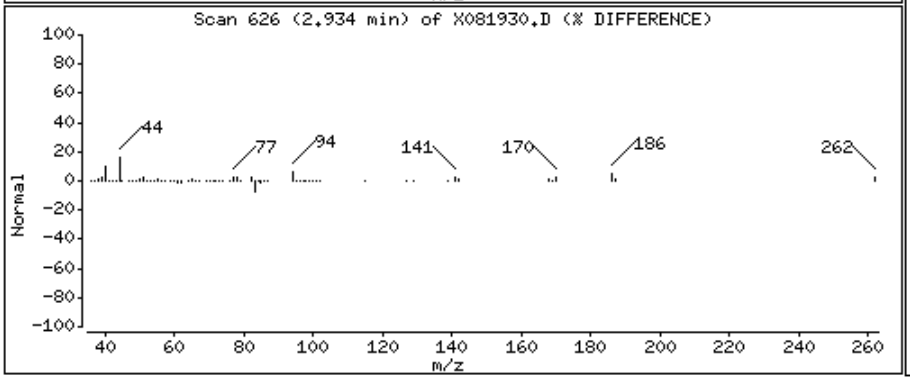
Column phase: DB624 Column diameter: 0.18

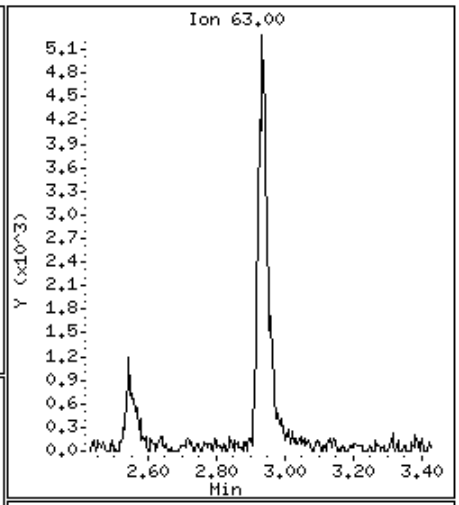
22 1,1-Dichloroethane Concentration: 11.58 ug/l

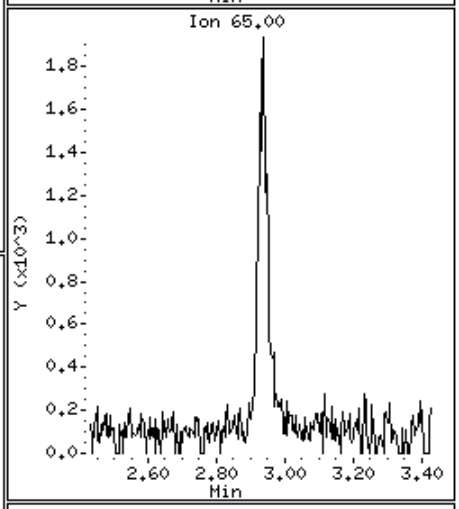


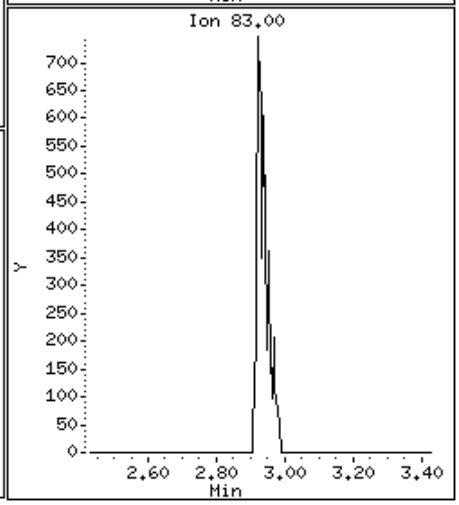












Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081930.D Page 3

Date : 19-AUG-2022 20:45

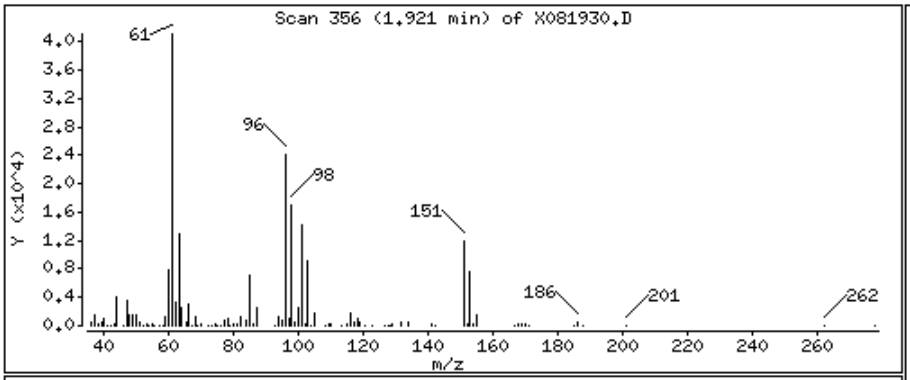
Client ID: HS22080933-03 Instrument: voa6.i

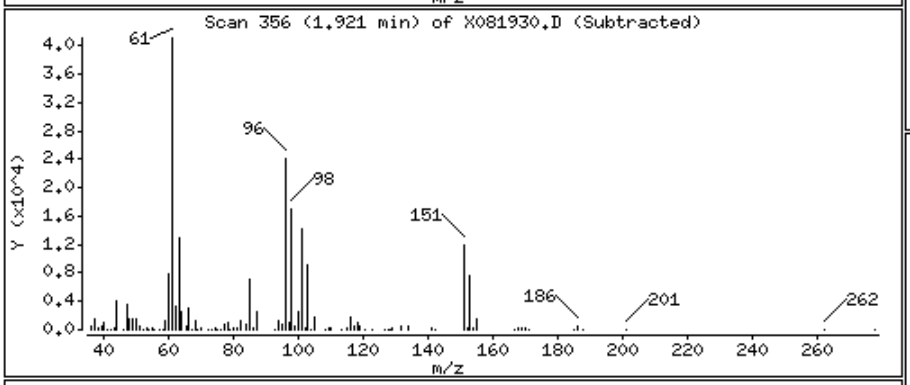
Sample Info: HS22080933-03;HS22080933-03;;;

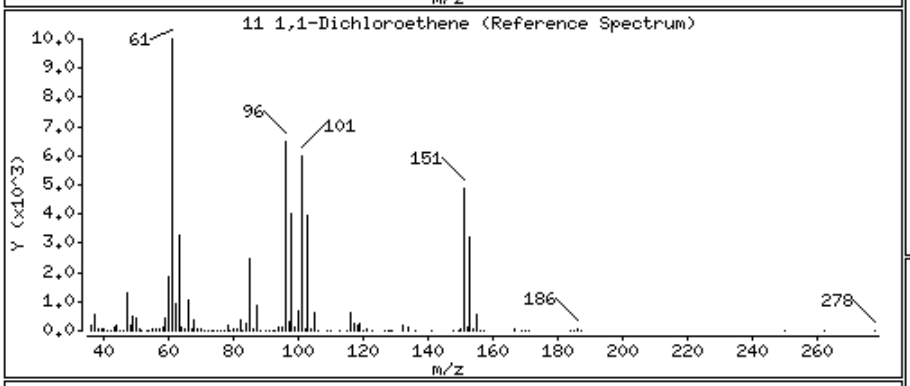
Purge Volume: 5.0 Operator: PC

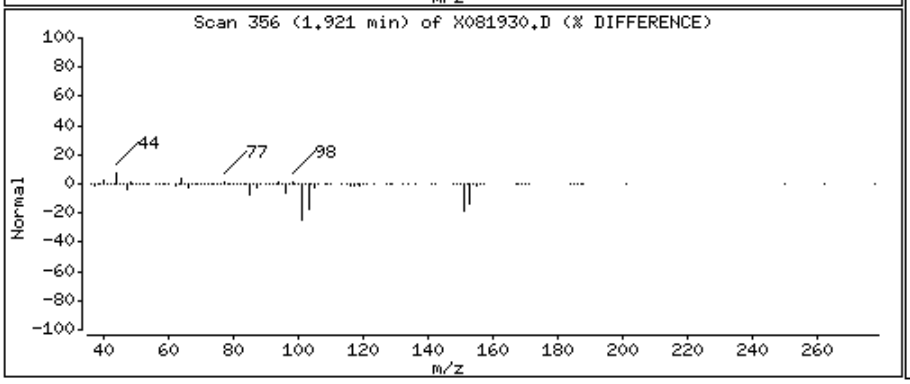
Column phase: DB624 Column diameter: 0.18

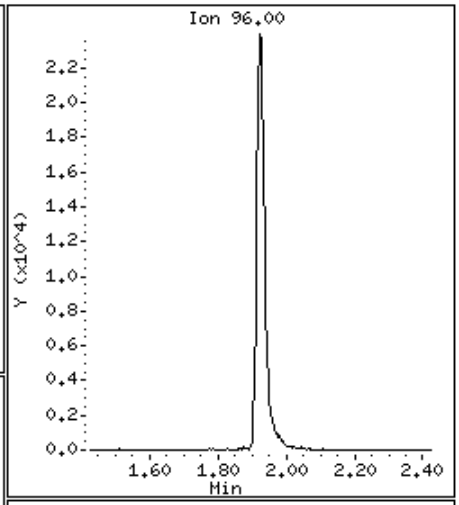
11 1,1-Dichloroethene Concentration: 78.28 ug/l

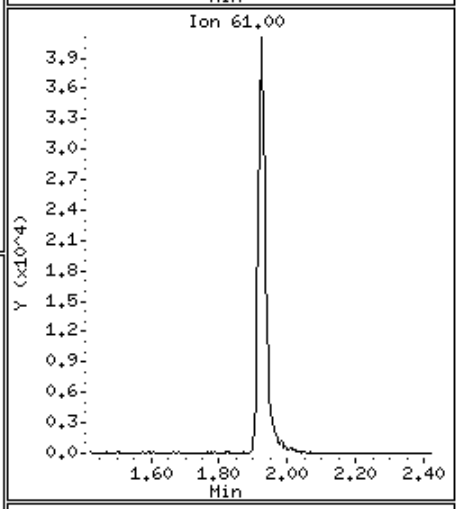


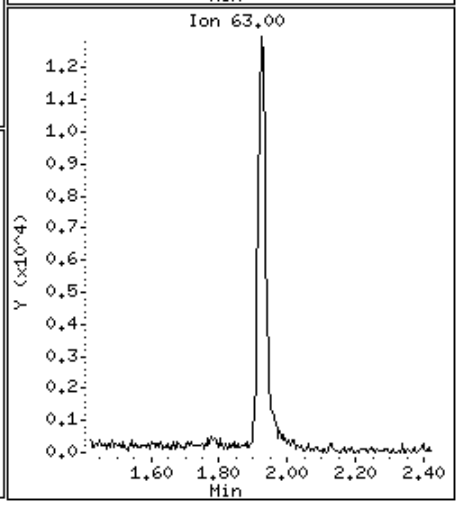












Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081930.D Page 4

Date : 19-AUG-2022 20:45

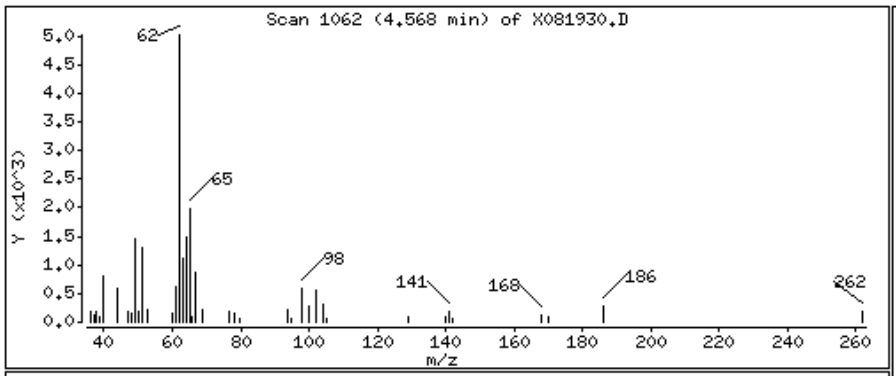
Client ID: HS22080933-03 Instrument: voa6.i

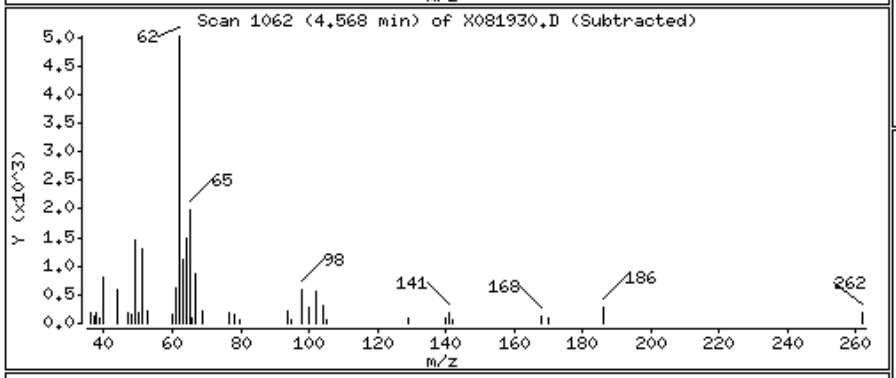
Sample Info: HS22080933-03;HS22080933-03;;;

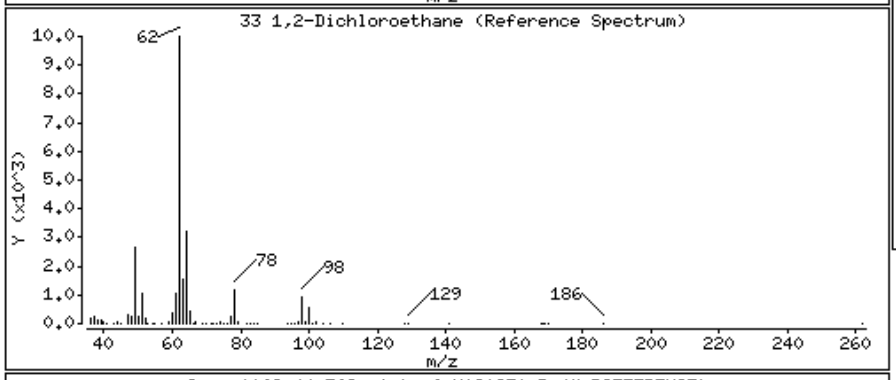
Purge Volume: 5.0 Operator: PC

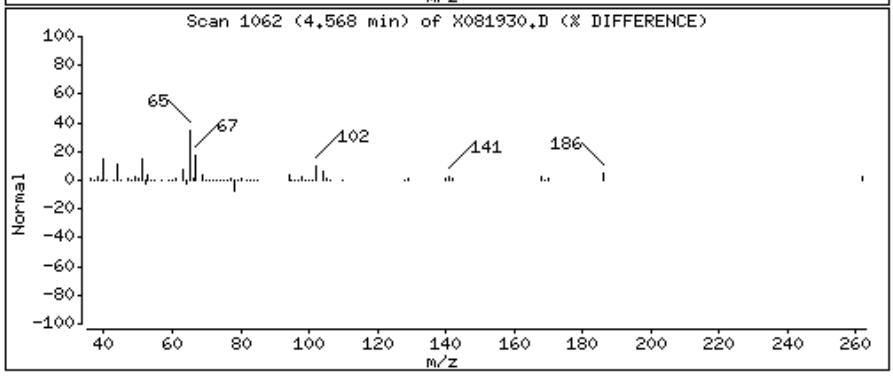
Column phase: DB624 Column diameter: 0.18

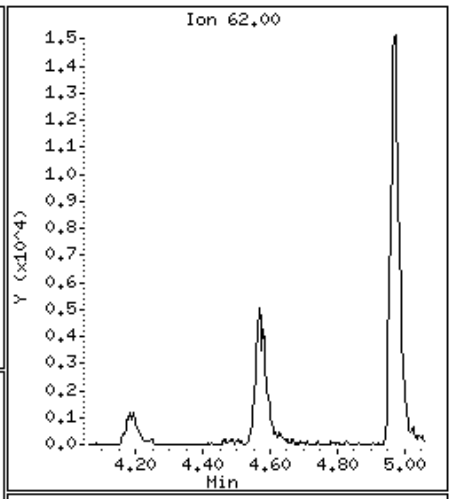
33 1,2-Dichloroethane Concentration: 14.86 ug/l

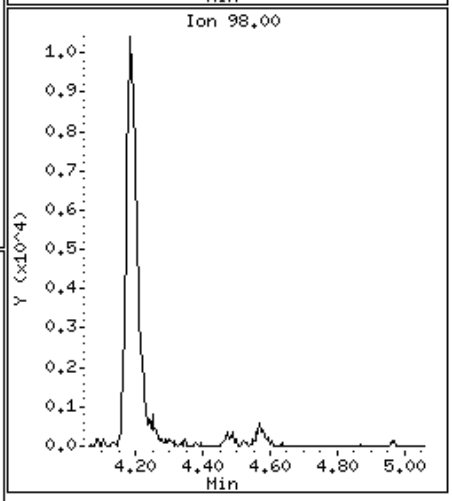












Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081930.D Page 5

Date : 19-AUG-2022 20:45

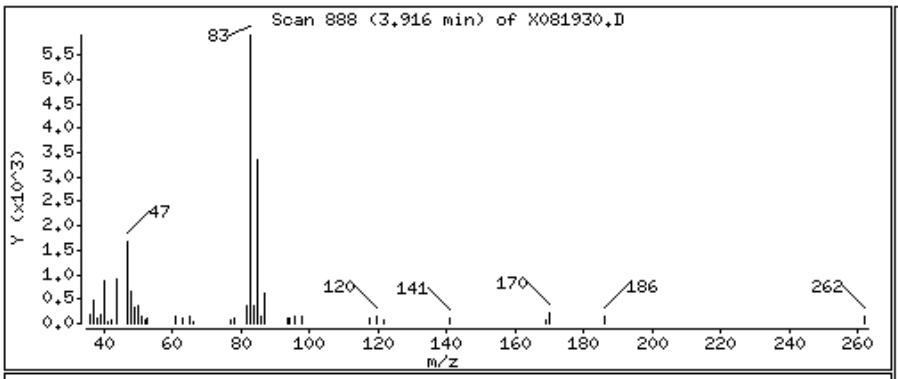
Client ID: HS22080933-03 Instrument: voa6.i

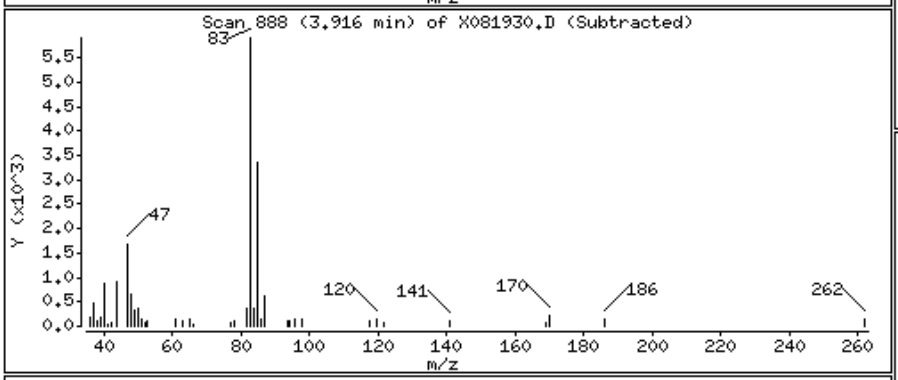
Sample Info: HS22080933-03;HS22080933-03;;;

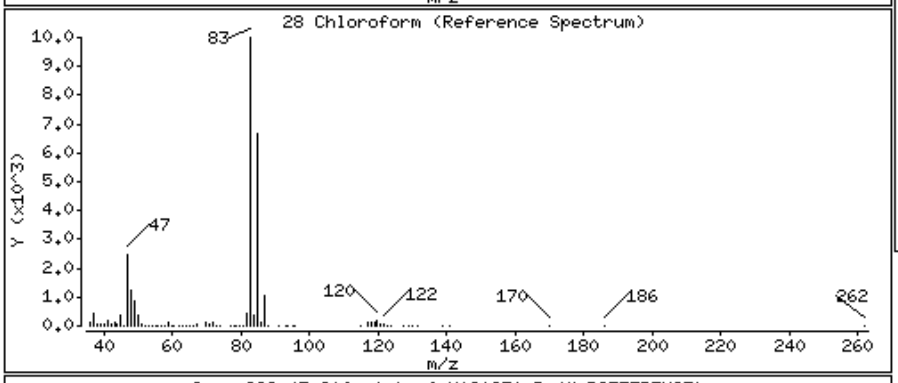
Purge Volume: 5.0 Operator: PC

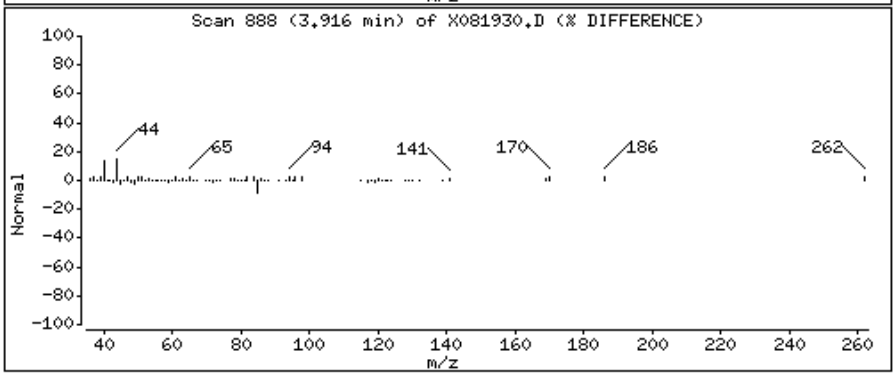
Column phase: DB624 Column diameter: 0.18

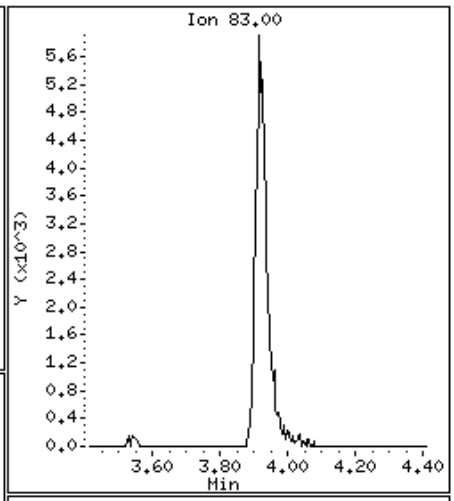
28 Chloroform Concentration: 13.09 ug/l

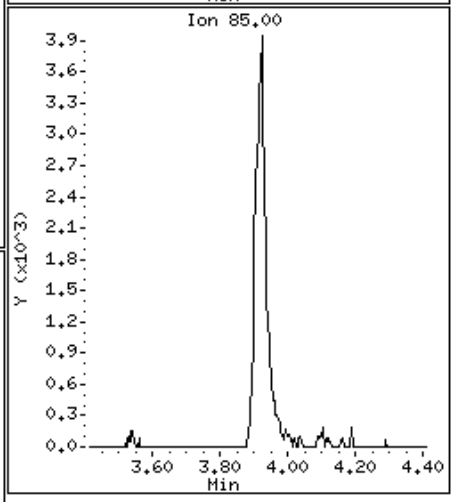












Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081930.D Page 6

Date : 19-AUG-2022 20:45

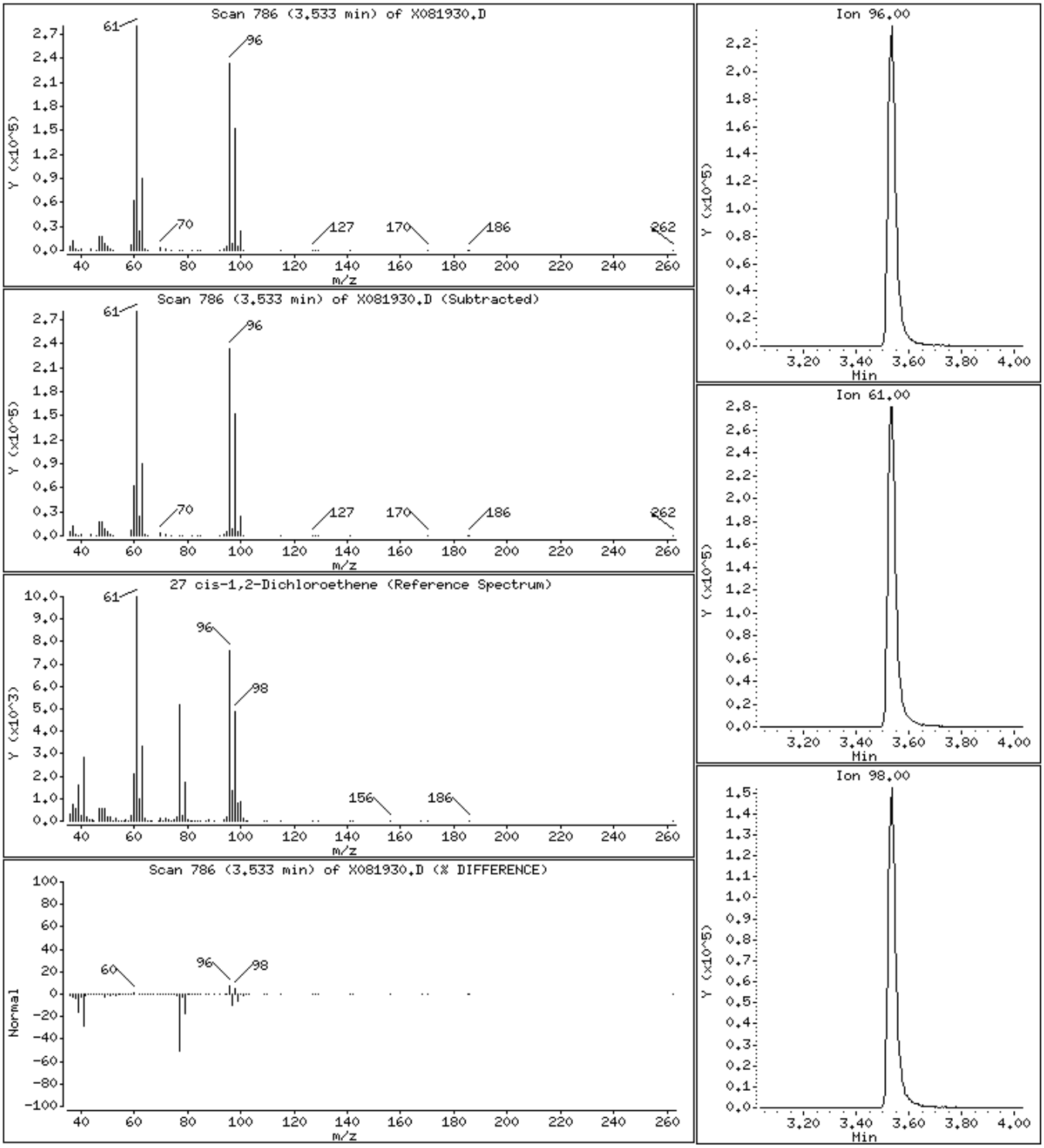
Client ID: HS22080933-03 Instrument: voa6.i

Sample Info: HS22080933-03;HS22080933-03;;;

Purge Volume: 5.0 Operator: PC

Column phase: DB624 Column diameter: 0.18

27 cis-1,2-Dichloroethene Concentration: 818.61 ug/l



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081930.D

Date : 19-AUG-2022 20:45

Client ID: HS22080933-03

Instrument: voa6.i

Sample Info: HS22080933-03;HS22080933-03;;;

Purge Volume: 5.0

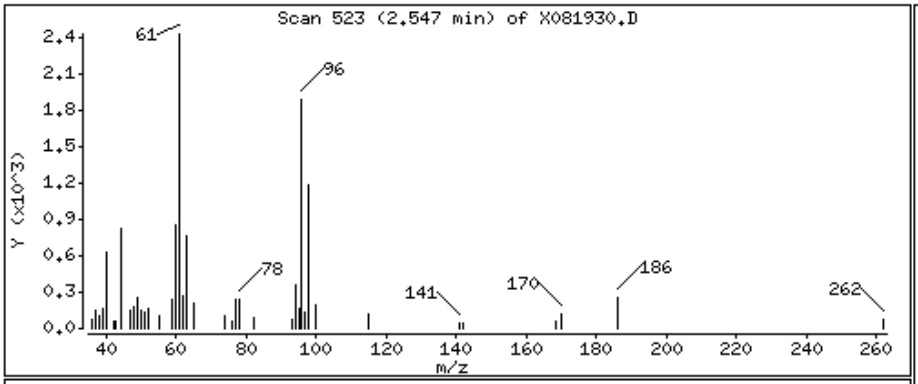
Operator: PC

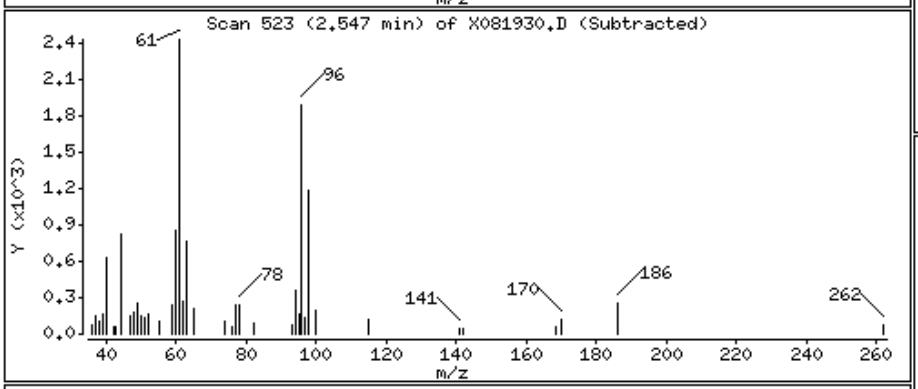
Column phase: DB624

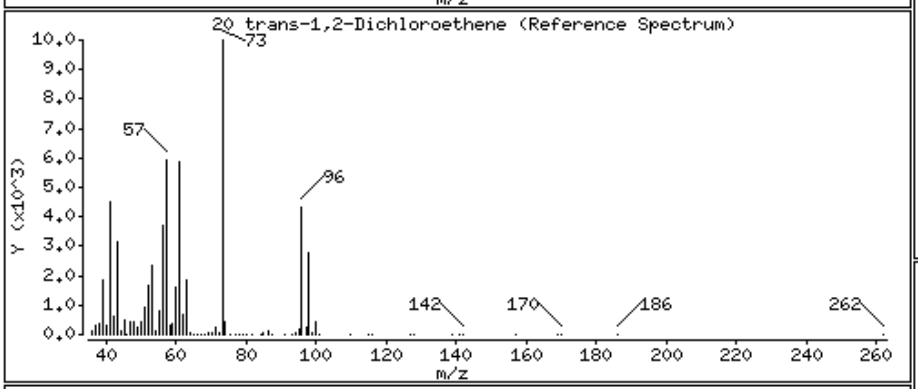
Column diameter: 0.18

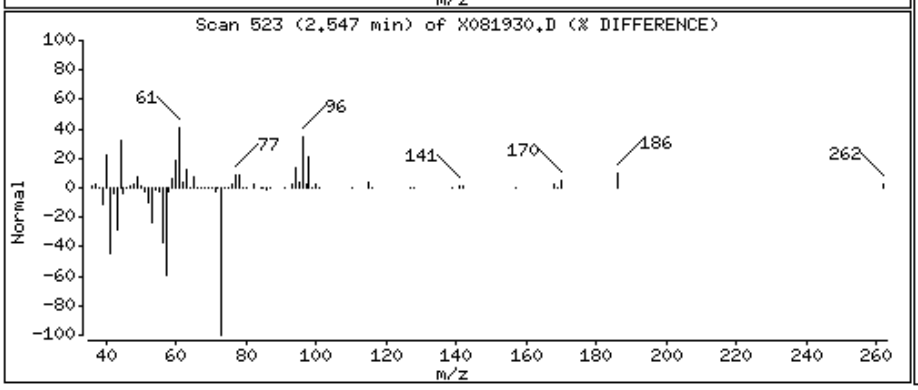
20 trans-1,2-Dichloroethene

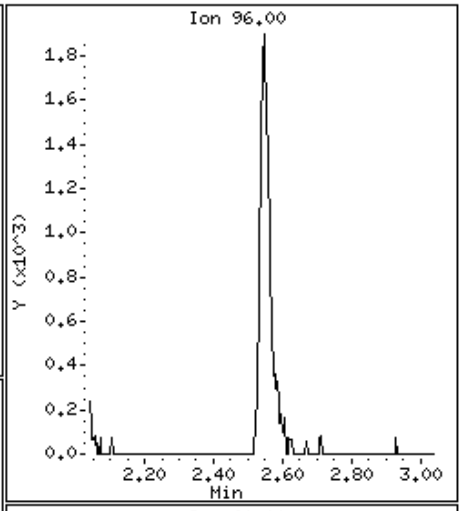
Concentration: 7.13 ug/l

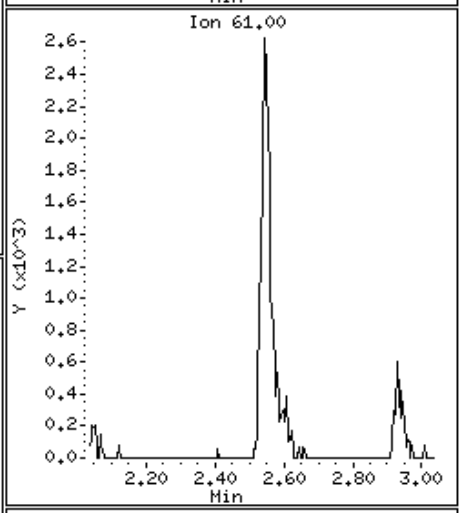


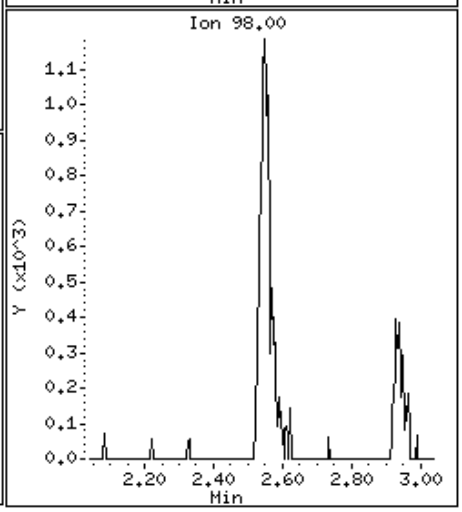












Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081930.D Page 8

Date : 19-AUG-2022 20:45

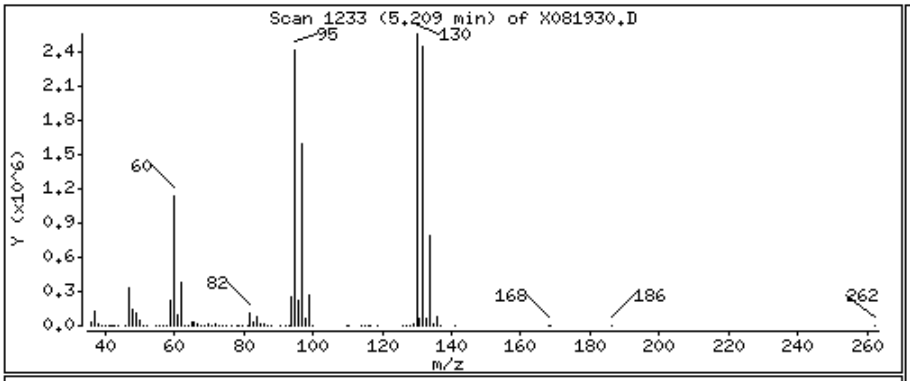
Client ID: HS22080933-03 Instrument: voa6.i

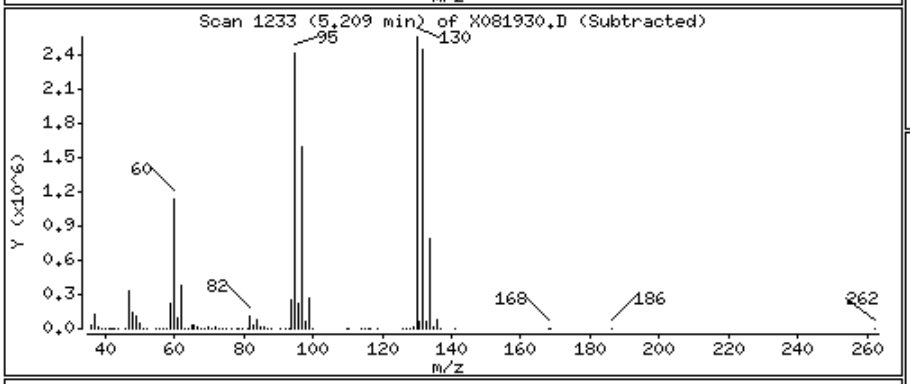
Sample Info: HS22080933-03;HS22080933-03;;;

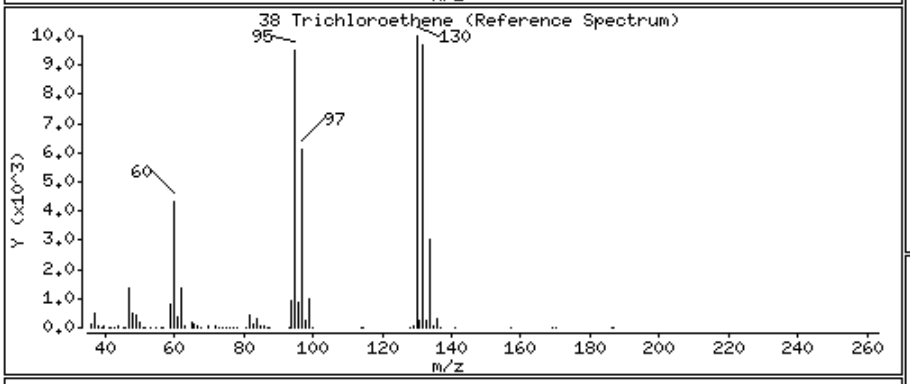
Purge Volume: 5.0 Operator: PC

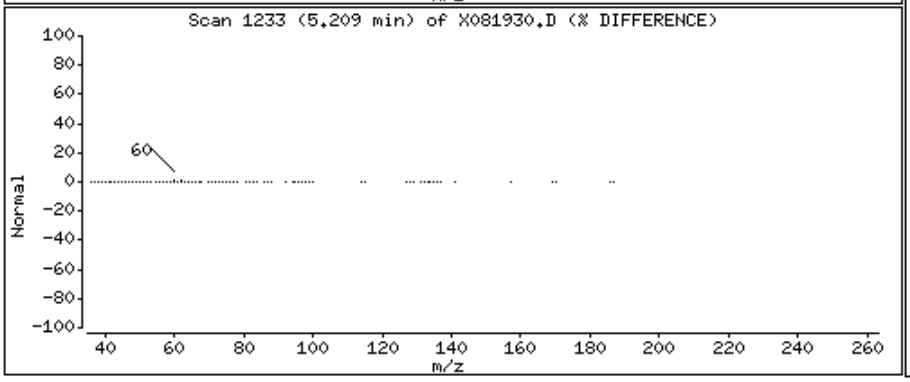
Column phase: DB624 Column diameter: 0.18

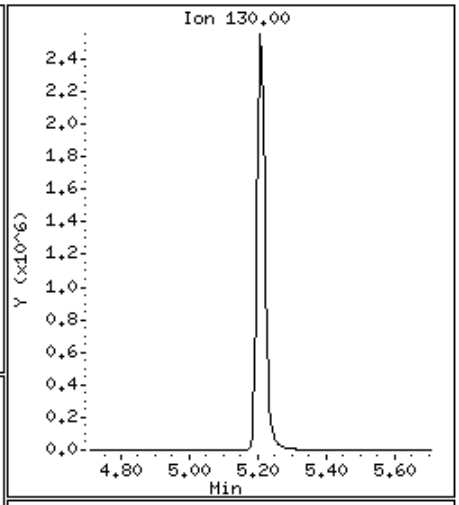
38 Trichloroethene Concentration: 7049.74 ug/l

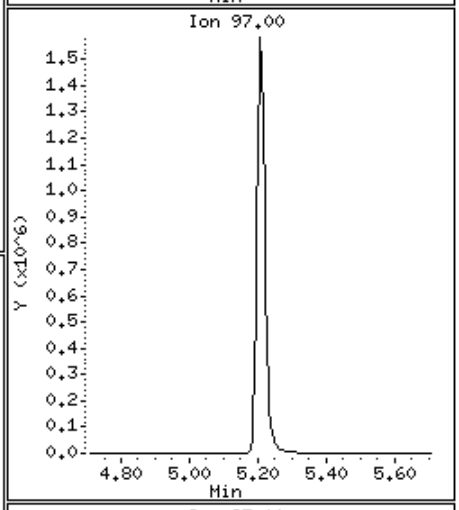


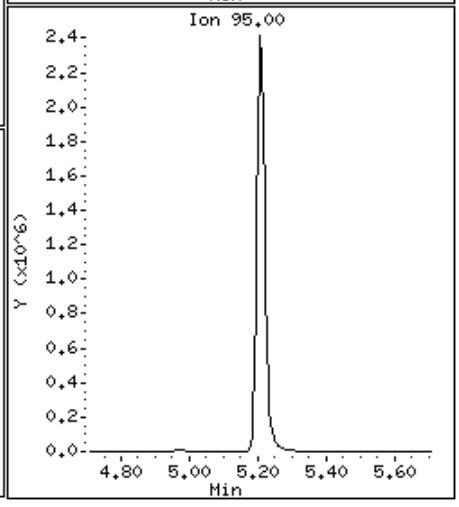












Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081930.D Page 9

Date : 19-AUG-2022 20:45

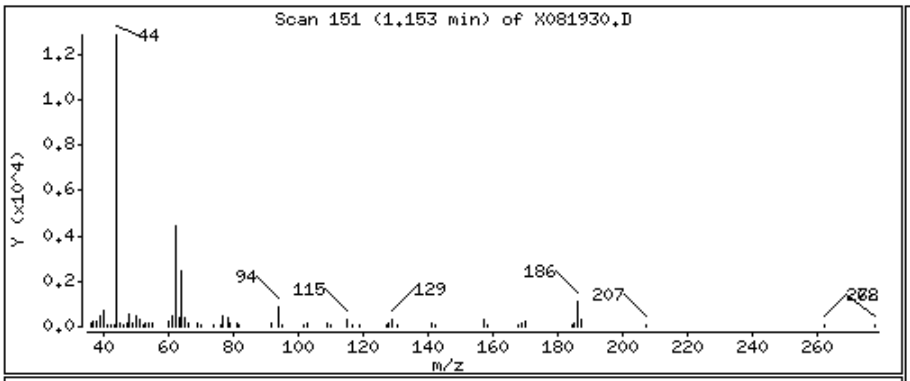
Client ID: HS22080933-03 Instrument: voa6.i

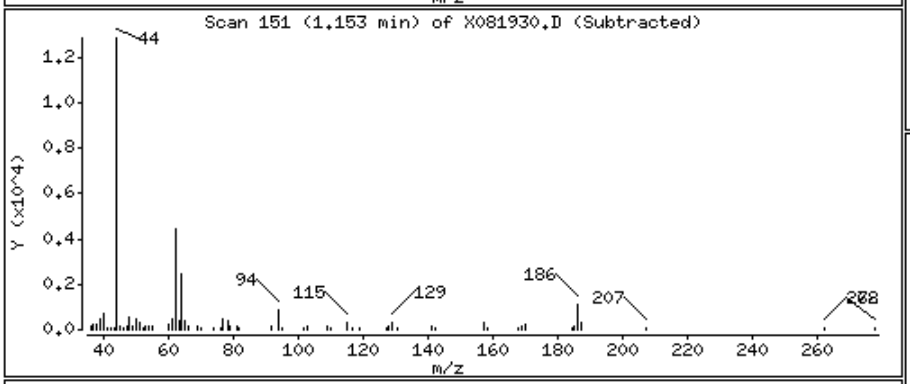
Sample Info: HS22080933-03;HS22080933-03;;;

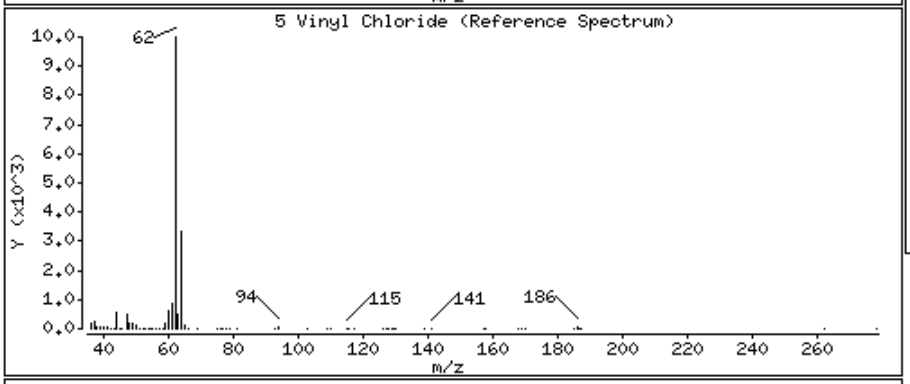
Purge Volume: 5.0 Operator: PC

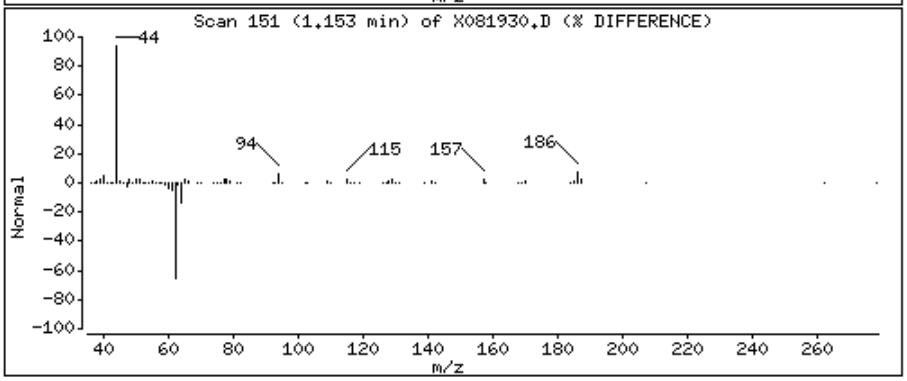
Column phase: DB624 Column diameter: 0.18

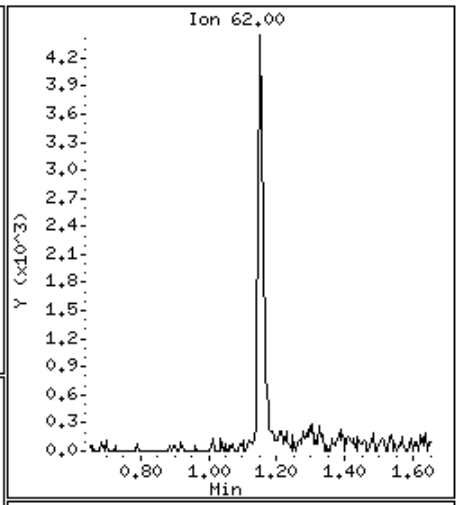
5 Vinyl Chloride Concentration: 7.37 ug/l

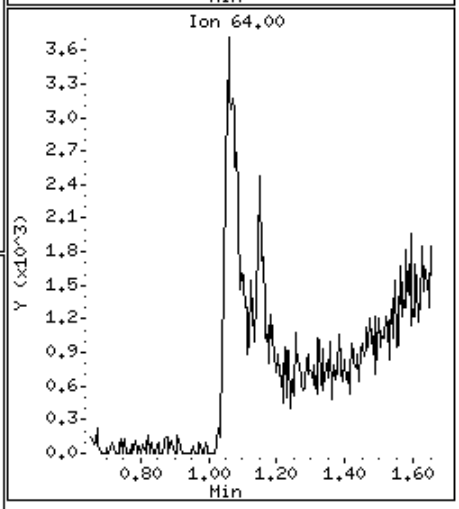












Data File : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081930.D
Inj Date : 19-AUG-2022 20:45
InstruID : voa6.i
LabSampID : HS22080933-03

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081931.D Page 1
Report Date: 08-Sep-2022 12:28

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081931.D
Lab Smp Id: CCV-END Client Smp ID: CCV-END
Inj Date : 19-AUG-2022 21:06
Operator : PC Inst ID: voa6.i
Smp Info : CCV-END;CCV-END;2;;
Misc Info : HS22052000V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\8260W.m
Meth Date : 08-Sep-2022 12:28 voa6.i Quant Type: ISTD
Cal Date : 19-JUL-2022 13:53 Cal File: X071908.D
Als bottle: 30 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: bhate.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

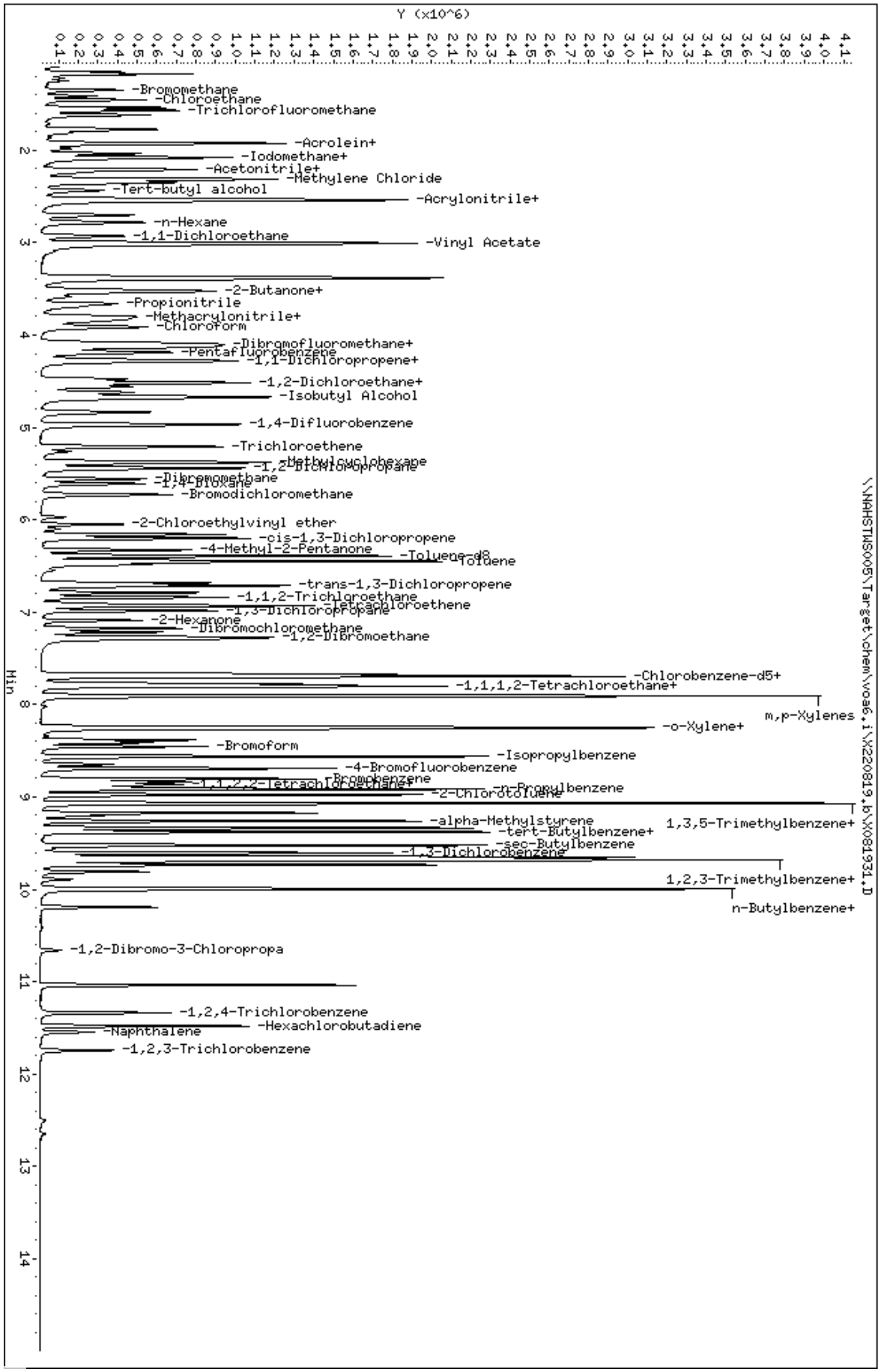
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.185	4.185	(1.000)	566958	50.0000	
* 36 1,4-Difluorobenzene	114	4.972	4.972	(1.000)	863314	50.0000	
* 47 Chlorobenzene-d5	117	7.671	7.671	(1.000)	814831	50.0000	
* 70 1,4-Dichlorobenzene-d4	152	9.666	9.666	(1.000)	416707	50.0000	
$ 30 Dibromofluoromethane	113	4.106	4.106	(0.981)	295265	50.0000	55.26
$ 35 1,2-Dichloroethane-d4	65	4.474	4.474	(1.069)	326761	50.0000	55.80
$ 48 Toluene-d8	98	6.389	6.389	(0.833)	1037850	50.0000	51.04
$ 69 4-Bromofluorobenzene	95	8.691	8.691	(1.133)	386793	50.0000	53.24
60 1,1,1,2-Tetrachloroethane	131	7.776	7.776	(1.014)	298403	50.0000	52.12
31 1,1,1-Trichloroethane	97	4.091	4.091	(0.978)	413897	50.0000	51.46
68 1,1,2,2-Tetrachloroethane	83	8.841	8.841	(0.915)	292658	50.0000	50.00
53 1,1,2-Trichloroethane	83	6.843	6.843	(0.892)	208693	50.0000	49.81
22 1,1-Dichloroethane	63	2.929	2.929	(0.700)	414710	50.0000	47.51
11 1,1-Dichloroethene	96	1.925	1.925	(0.460)	215286	50.0000	45.48
32 1,1-Dichloropropene	75	4.282	4.282	(0.861)	352797	50.0000	50.63
93 1,2,3-Trichlorobenzene	180	11.742	11.742	(1.215)	108262	50.0000	49.97
71 1,2,3-Trichloropropane	75	8.867	8.867	(0.917)	236769	50.0000	52.47(M)
90 1,2,4-Trichlorobenzene	180	11.337	11.337	(1.173)	195827	50.0000	51.59
79 1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	1033308	50.0000	51.69
89 1,2-Dibromo-3-Chloropropane	155	10.659	10.659	(1.103)	23050	50.0000	52.08

57	1,2-Dibromoethane	107	7.263	7.263 (0.947)	265796	50.0000	50.03
88	1,2-Dichlorobenzene	146	9.995	9.995 (1.034)	538024	50.0000	51.59

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
33 1,2-Dichloroethane	62	4.560	4.560	(0.917)	371016	50.0000	49.00
42 1,2-Dichloropropane	63	5.437	5.437	(1.093)	257209	50.0000	48.40
75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	1048380	50.0000	51.79
83 1,3-Dichlorobenzene	146	9.606	9.606	(0.994)	592081	50.0000	51.21
54 1,3-Dichloropropane	76	6.985	6.985	(0.911)	422831	50.0000	49.61
84 1,4-Dichlorobenzene	146	9.684	9.684	(1.002)	613018	50.0000	49.94
26 2,2-Dichloropropane	77	3.518	3.518	(0.841)	375184	50.0000	48.39
24 2-Butanone	43	3.585	3.585	(0.857)	157683	100.000	110.86
76 2-Chlorotoluene	91	8.976	8.976	(0.929)	869738	50.0000	48.69
52 2-Hexanone	43	7.090	7.090	(0.924)	293841	100.000	114.68
77 4-Chlorotoluene	91	9.070	9.070	(0.938)	1004174	50.0000	50.36
82 p-Isopropyltoluene	119	9.651	9.651	(0.998)	1092044	50.0000	53.72
45 4-Methyl-2-Pentanone	43	6.325	6.325	(0.825)	439452	100.000	110.68
10 Acetone	43	1.981	1.981	(0.473)	115100	100.000	96.18
37 Benzene	78	4.515	4.515	(0.908)	981519	50.0000	47.97
74 Bromobenzene	156	8.807	8.807	(0.911)	352352	50.0000	49.51
29 Bromochloromethane	128	3.799	3.799	(0.908)	148411	50.0000	46.42
39 Bromodichloromethane	83	5.729	5.729	(1.152)	366716	50.0000	50.29
66 Bromoform	173	8.413	8.413	(1.097)	195805	50.0000	49.57
6 Bromomethane	94	1.347	1.347	(0.322)	190009	50.0000	49.03
19 Carbon Disulfide	76	2.078	2.078	(0.497)	1157428	100.000	92.37
34 Carbon Tetrachloride	117	4.267	4.267	(0.858)	358869	50.0000	48.19
59 Chlorobenzene	112	7.698	7.698	(1.003)	773052	50.0000	50.03
7 Chloroethane	64	1.411	1.411	(0.337)	171291	50.0000	47.10
28 Chloroform	83	3.911	3.911	(0.935)	479719	50.0000	50.16
3 Chloromethane	50	1.085	1.085	(0.259)	243367	50.0000	46.36
27 cis-1,2-Dichloroethene	96	3.533	3.533	(0.844)	279161	50.0000	49.52
46 cis-1,3-Dichloropropene	75	6.157	6.157	(1.238)	443134	50.0000	49.47
55 Dibromochloromethane	129	7.176	7.176	(0.936)	305619	50.0000	50.53
44 Dibromomethane	93	5.553	5.553	(1.117)	174914	50.0000	49.06
2 Dichlorodifluoromethane	85	0.980	0.980	(0.234)	249897	50.0000	46.25
61 Ethylbenzene	106	7.802	7.802	(1.017)	401953	50.0000	51.50
91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	178691	50.0000	50.97
67 Isopropylbenzene	105	8.563	8.563	(1.116)	1269744	50.0000	54.10
62 m,p-Xylenes	106	7.907	7.907	(1.031)	1011958	100.000	104.24
17 Methylene Chloride	84	2.311	2.311	(0.552)	257961	50.0000	49.47
87 n-Butylbenzene	91	9.995	9.995	(1.034)	937747	50.0000	55.52
73 n-Propylbenzene	91	8.912	8.912	(0.922)	1465029	50.0000	53.29
92 Naphthalene	128	11.544	11.544	(1.194)	203391	50.0000	47.90
63 o-Xylene	106	8.245	8.245	(1.075)	484841	50.0000	51.37
81 sec-Butylbenzene	105	9.523	9.523	(0.985)	1261845	50.0000	53.71
64 Styrene	104	8.260	8.260	(1.077)	813232	50.0000	52.32
78 tert-Butylbenzene	119	9.339	9.339	(0.966)	909902	50.0000	53.03
56 Tetrachloroethene	164	6.929	6.929	(0.903)	260552	50.0000	49.31
50 Toluene	91	6.449	6.449	(0.841)	1122950	50.0000	49.02
20 trans-1,2-Dichloroethene	96	2.539	2.539	(0.607)	246742	50.0000	49.47
51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.344)	381213	50.0000	51.39
38 Trichloroethene	130	5.208	5.208	(1.047)	307290	50.0000	50.70
8 Trichlorofluoromethane	101	1.568	1.568	(0.375)	432252	50.0000	48.41
5 Vinyl Chloride	62	1.152	1.152	(0.275)	268526	50.0000	45.16

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081931.D
Date : 19-AUG-2022 21:06
Client ID: CCV-END
Sample Info: CCV-END;CCV-END;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

\\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081931.D

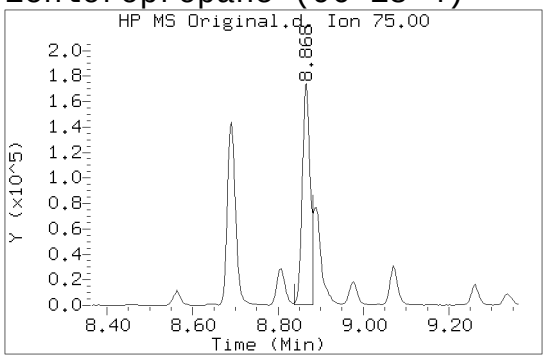
Data File : \\NAHSTWS005\Target\chem\voa6.i\X220819.b\X081931.D
Inj Date : 19-AUG-2022 21:06
InstruID : voa6.i
LabSampID : CCV-END

1,2,3-Trichloropropane (96-18-4)

Reason Code:

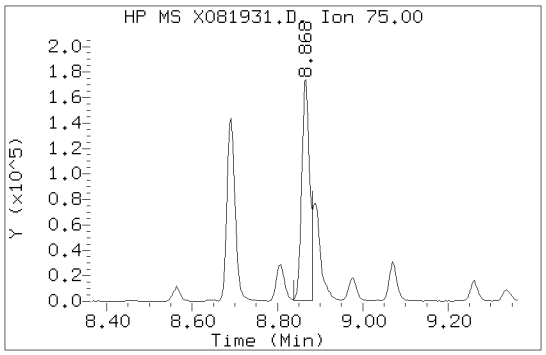
BEFORE

MASS
75
AREA
236769
HEIGHT
173664
08-Sep-2022
12:27
linh
pham



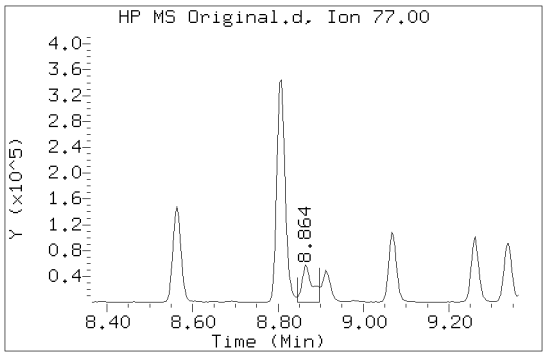
AFTER

MASS
75
AREA
236769
HEIGHT
173664
08-Sep-2022
12:27
linh
pham



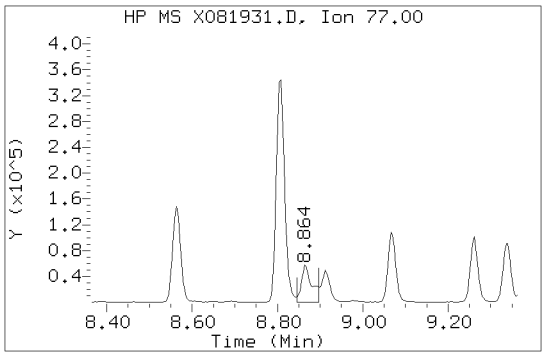
BEFORE

MASS
77
AREA
100942
HEIGHT
57745
08-Sep-2022
12:27
linh
pham



AFTER

MASS
77
AREA
100942
HEIGHT
57745
08-Sep-2022
12:27
linh
pham



HS22080933-MSSEMI-SW8270SIM

ALS WO# HS22080933

right solutions.
right partner.

Form 1

Organic Analysis Data Sheet

EPA 8270SIM

Workorder

HS22080933

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

09/08/2022

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8270SIM

HS22080933-01
18CPTMW03SW_081522

Collected	Received	Matrix	Units	Prep Method	Prep Amount	Basis
08/15/22 07:35	08/17/22 09:25	Groundwater	ug/L	SW3510	Initial 1000mL Final 1mL	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File	PrepDate
1,4-Dioxane	0.37		0.010	0.010	0.010	1	08/27/22 14:05	SV-6_416162	11	08/19/22

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8270SIM

HS22080933-02

1824DPTMW05_081522

Collected	Received	Matrix	Units	Prep Method	Prep Amount	Basis
08/15/22 08:20	08/17/22 09:25	Groundwater	ug/L	SW3510	Initial 1000mL Final 1mL	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File	PrepDate
1,4-Dioxane	43		1.0	1.0	1.0	100	08/29/22 15:33	SV-6_416162	18	08/19/22

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8270SIM

HS22080933-03

120_081522

Collected	Received	Matrix	Units	Prep Method	Prep Amount	Basis
08/15/22 09:05	08/17/22 09:25	Groundwater	ug/L	SW3510	Initial 1000mL Final 1mL	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File	PrepDate
1,4-Dioxane	44		1.0	1.0	1.0	100	08/29/22 15:51	SV-6_416162	19	08/19/22

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8270SIM

HS22080933-04

MW14_081522

Collected	Received	Matrix	Units	Prep Method	Prep Amount	Basis
08/15/22 09:50	08/17/22 09:25	Groundwater	ug/L	SW3510	Initial 1000mL Final 1mL	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File	PrepDate
1,4-Dioxane	430		10	10	10	1000	08/29/22 16:09	SV-6_416162	20	08/19/22

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8270SIM

HS22080933-06

18WW25_081522

Collected	Received	Matrix	Units	Prep Method	Prep Amount	Basis
08/15/22 11:25	08/17/22 09:25	Groundwater	ug/L	SW3510	Initial 1000mL Final 1mL	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File	PrepDate
1,4-Dioxane	0.17		0.010	0.010	0.010	1	08/27/22 15:17	SV-6_416162	15	08/19/22

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8270SIM

HS22080933-07

18CPTMW15_081522

Collected	Received	Matrix	Units	Prep Method	Prep Amount	Basis
08/15/22 12:10	08/17/22 09:25	Groundwater	ug/L	SW3510	Initial 1000mL Final 1mL	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File	PrepDate
1,4-Dioxane	0.23		0.010	0.010	0.010	1	08/27/22 15:35	SV-6_416162	16	08/19/22

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8270SIM

MBLK-182674

MBLK-182674

Collected	Received	Matrix	Units	Prep Method	Prep Amount	Basis
NA	NA	Aqueous	ug/L	SW3510	Initial 1000mL Final 1mL	Wet

Analyte	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	Data File	PrepDate
1,4-Dioxane	0.010	U	0.010	0.010	0.010	1	08/23/22 13:03	SV-6_416162	11	08/19/22

MC - Method Class CV - Cold Vapor AA P - ICP-AES MS - ICP-MS

right solutions.
right partner.

Form 2

System Monitoring Compound Recovery

Workorder

HS22080933

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

09/08/2022

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

RunID
SV-6_416162

MBLK-182674 (6826854)	Analyzed 08/23/22 13:03		Conc Units ug/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	#
Nitrobenzene-d5	0.06690	0.08000	84	40 - 140	
4-Terphenyl-d14	0.04792	0.08000	60	40 - 140	
2-Fluorobiphenyl	0.03569	0.08000	45	40 - 140	

LCS-182674 (6826855)	Analyzed 08/23/22 13:21		Conc Units ug/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	#
4-Terphenyl-d14	0.05270	0.08000	66	40 - 140	
Nitrobenzene-d5	0.06923	0.08000	87	40 - 140	
2-Fluorobiphenyl	0.03523	0.08000	44	40 - 140	

LCSD-182674 (6826856)	Analyzed 08/23/22 13:39		Conc Units ug/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	#
2-Fluorobiphenyl	0.03680	0.08000	46	40 - 140	
Nitrobenzene-d5	0.06967	0.08000	87	40 - 140	
4-Terphenyl-d14	0.05038	0.08000	63	40 - 140	

HS22080933-04 (6826933)	Analyzed 08/27/22 14:59		Conc Units ug/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	#
4-Terphenyl-d14	0.04641	0.08000	58	40 - 140	
Nitrobenzene-d5	0.05564	0.08000	70	40 - 140	
2-Fluorobiphenyl	0.03378	0.08000	42	40 - 140	

HS22080933-06 (6826934)	Analyzed 08/27/22 15:17		Conc Units ug/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	#
2-Fluorobiphenyl	0.04756	0.08000	59	40 - 140	
Nitrobenzene-d5	0.06288	0.08000	79	40 - 140	
4-Terphenyl-d14	0.05207	0.08000	65	40 - 140	

- Surrogate %Recovery Flag * - %Recovery / RPD Outside Limits

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

RunID
SV-6_416162

HS22080933-07 (6826935)	Analyzed 08/27/22 15:35		Conc Units ug/L		DF 1
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	#
4-Terphenyl-d14	0.04895	0.08000	61	40 - 140	
Nitrobenzene-d5	0.06278	0.08000	79	40 - 140	
2-Fluorobiphenyl	0.04729	0.08000	59	40 - 140	

HS22080933-02 (6826996)	Analyzed 08/29/22 15:33		Conc Units ug/L		DF 100
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	#
4-Terphenyl-d14	0	0.08000	0	40 - 140	*
Nitrobenzene-d5	0	0.08000	0	40 - 140	*
2-Fluorobiphenyl	0	0.08000	0	40 - 140	*

HS22080933-03 (6826997)	Analyzed 08/29/22 15:51		Conc Units ug/L		DF 100
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	#
4-Terphenyl-d14	0	0.08000	0	40 - 140	*
Nitrobenzene-d5	0	0.08000	0	40 - 140	*
2-Fluorobiphenyl	0	0.08000	0	40 - 140	*

HS22080933-04 (6826998)	Analyzed 08/29/22 16:09		Conc Units ug/L		DF 1000
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	#
Nitrobenzene-d5	0	0.08000	0	40 - 140	*
4-Terphenyl-d14	0	0.08000	0	40 - 140	*
2-Fluorobiphenyl	0	0.08000	0	40 - 140	*

- Surrogate %Recovery Flag * - %Recovery / RPD Outside Limits

right solutions.
right partner.

Form 3B

Laboratory Control Sample Recovery

EPA 8270SIM

Workorder

HS22080933

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

09/08/2022

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

EPA 8270SIM

SV-6_416162				LCS-182674			LCS-182674					
QC Matrix	Aqueous		Run Date	08/23/22			08/23/22					
Prep Method	SW3510	Units	Run Time	13:21			13:39					
Prep Batch	182674 08/19/22	ug/L	Prep Amt	1000 mL			1000 mL					
Analyte	%R Limits	Spike Added		LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
1,4-Dioxane	40-140	0.08		0.1002	125		0.1092	137.0		20	8.62	
2-Fluorobiphenyl	40-140	0.08		0.03523	44		0.0368	46.0		20	4.37	
4-Terphenyl-d14	40-140	0.08		0.0527	66		0.05038	63.0		20	4.51	
Nitrobenzene-d5	40-140	0.08		0.06923	86		0.06967	87.0		20	0.631	

- %Recovery / RPD Flag * - %Recovery / RPD Outside Limits

right solutions.
right partner.

Form 4

Method Blank Summary

Workorder

HS22080933

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

09/08/2022

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

BatchID
182674

Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK-182674	11.D	08/23/22 13:03	SV-6_416162
LCS-182674	LCS-182674	12.D	08/23/22 13:21	SV-6_416162
LCSD-182674	LCSD-182674	13.D	08/23/22 13:39	SV-6_416162
ZZZZZZ	HS22080927-05	05.D	08/27/22 12:18	SV-6_416162
ZZZZZZ	HS22080927-06	06.D	08/27/22 12:36	SV-6_416162
ZZZZZZ	HS22080927-07	07.D	08/27/22 12:54	SV-6_416162
ZZZZZZ	HS22080927-08	08.D	08/27/22 13:12	SV-6_416162
ZZZZZZ	HS22080927-09	09.D	08/27/22 13:29	SV-6_416162
ZZZZZZ	HS22080927-10	10.D	08/27/22 13:47	SV-6_416162
MW14_081522	HS22080933-04	14.D	08/27/22 14:59	SV-6_416162
18WW25_081522	HS22080933-06	15.D	08/27/22 15:17	SV-6_416162
18CPTMW15_081522	HS22080933-07	16.D	08/27/22 15:35	SV-6_416162
ZZZZZZ	HS22081026-01	17.D	08/27/22 15:53	SV-6_416162
ZZZZZZ	HS22081026-04	18.D	08/27/22 16:11	SV-6_416162
ZZZZZZ	HS22081026-05	19.D	08/27/22 16:29	SV-6_416162
ZZZZZZ	HS22081026-06	20.D	08/27/22 16:47	SV-6_416162
ZZZZZZ	HS22081026-07	21.D	08/27/22 17:05	SV-6_416162

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: HS22080933

Lab File ID: 001 DFTPP Injection Date: 03/10/22

Instrument ID: SV6 DFTPP Injection Time: 1015

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	55.4
68	Less than 2.0% of mass 69	0.8 (1.6)1
69	Mass 69 relative abundance	49.8
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	10.0 - 80.0% of mass 198	59.7
197	Less than 2.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	21.2
365	1.0 - 100.0% of mass 198	2.1
441	Present, but less than mass 443	9.1
442	50.0 - 150.0% of mass 198	62.4
443	15.0 - 24.0% of mass 442	12.2 (19.5)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	1 4 DX-0.08	1 4 DX-0.08	002	03/10/22	1025
02	1 4 DX-0.01	1 4 DX-0.01	003	03/10/22	1047
03	1 4 DX-0.03	1 4 DX-0.03	004	03/10/22	1105
04	1 4 DX-0.05	1 4 DX-0.05	005	03/10/22	1122
05	1 4 DX-0.1	1 4 DX-0.1	006	03/10/22	1140
06	1 4 DX-0.15	1 4 DX-0.15	007	03/10/22	1158
07	1 4 DX-0.2	1 4 DX-0.2	008	03/10/22	1216
08	1 4 DX-0.5	1 4 DX-0.5	009	03/10/22	1256
09	1 4 DX-ICV	1 4 DX-ICV	010	03/10/22	1415
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: HS220933

Lab File ID: 01 DFTPP Injection Date: 08/23/22

Instrument ID: SV6 DFTPP Injection Time: 0933

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	46.3
68	Less than 2.0% of mass 69	0.6 (1.4)1
69	Mass 69 relative abundance	41.7
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	10.0 - 80.0% of mass 198	50.0
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	20.4
365	1.0 - 100.0% of mass 198	2.7
441	Present, but less than mass 443	9.9
442	50.0 - 150.0% of mass 198	66.8
443	15.0 - 24.0% of mass 442	12.8 (19.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	1 4DIOX-CCV	1 4DIOX-CCV	03	08/23/22	1031
02	MBLK-182674	MBLK-182674	11	08/23/22	1303
03	LCS-182674	LCS-182674	12	08/23/22	1321
04	LCSD-182674	LCSD-182674	13	08/23/22	1339
05	1 4DIOX-CCV	1 4DIOX-CCV	31	08/23/22	1903
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: HS22080933

Lab File ID: 01 DFTPP Injection Date: 08/27/22

Instrument ID: SV6 DFTPP Injection Time: 1044

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	44.6
68	Less than 2.0% of mass 69	0.6 (1.5)1
69	Mass 69 relative abundance	40.4
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	10.0 - 80.0% of mass 198	46.0
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 60.0% of mass 198	23.8
365	1.0 - 100.0% of mass 198	3.6
441	Present, but less than mass 443	14.5
442	50.0 - 150.0% of mass 198	96.3
443	15.0 - 24.0% of mass 442	18.5 (19.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	1,4-DIOX-CCV	1,4-DIOX-CCV	03	08/27/22	1126
02	HS22080933-01	HS22080933-01	11	08/27/22	1405
03	HS22080933-02	HS22080933-02	12	08/27/22	1423
04	HS22080933-03	HS22080933-03	13	08/27/22	1441
05	HS22080933-04	HS22080933-04	14	08/27/22	1459
06	HS22080933-06	HS22080933-06	15	08/27/22	1517
07	HS22080933-07	HS22080933-07	16	08/27/22	1535
08	1,4-DIOX-CCV	1,4-DIOX-CCV	32	08/27/22	2022
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: HS22080933

Lab File ID: 01 DFTPP Injection Date: 08/29/22

Instrument ID: SV6 DFTPP Injection Time: 0925

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	46.7
68	Less than 2.0% of mass 69	0.6 (1.4)1
69	Mass 69 relative abundance	43.9
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	10.0 - 80.0% of mass 198	50.8
197	Less than 2.0% of mass 198	0.9
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	20.2
365	1.0 - 100.0% of mass 198	2.6
441	Present, but less than mass 443	9.5
442	50.0 - 150.0% of mass 198	63.5
443	15.0 - 24.0% of mass 442	12.4 (19.5)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	1 4-DIOX-CCV	1 4-DIOX-CCV	04	08/29/22	1104
02	HS22080933-02	HS22080933-02	18	08/29/22	1533
03	HS22080933-03	HS22080933-03	19	08/29/22	1551
04	HS22080933-04	HS22080933-04	20	08/29/22	1609
05	1 4-DIOX-CCV	1 4-DIOX-CCV	25	08/29/22	1739
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

right solutions.
right partner.

Form 6

Initial Calibration Data

Workorder

HS22080933

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

09/08/2022

Initial Calibration Data

Client Bhate Environmental Associates, Inc.
Project LHAAP 18 24

Workorder HS22080933

RunID SV-6_410398

Volatiles Organics by Method 8260C

ICAL Start Date 10-MAR-2022 1025
ICAL End Date 10-MAR-2022 1256

Calibration Files

Calibration File Names

Level 1 ..SV6.i\220310.b\003.D
Level 2 ..SV6.i\220310.b\004.D
Level 3 ..SV6.i\220310.b\005.D
Level 4 ..SV6.i\220310.b\002.D
Level 5 ..SV6.i\220310.b\006.D
Level 6 ..SV6.i\220310.b\007.D
Level 7 ..SV6.i\220310.b\008.D
Level 8 ..SV6.i\220310.b\009.D

Compound	Level 1 0.01000 Level 7 0.20000	Level 2 0.03000 Level 8 0.50000	Level 3 0.05000	Level 4 0.08000	Level 5 0.10000	Level 6 0.15000	Curve	b	m1	m2	%RSD or R^2	Q
1,4-Dioxane	0.03798 0.04227	0.03918 0.03722	0.04058	0.04498	0.04442	0.04181	0.04105	6.932				
----------	0.04227 ---------	0.03722 ---------	---------	---------	---------	---------	0.04105 ---------	6.932 ----------				
2-Fluorophenol	NE NE	NE NE	NE	NE	NE	NE	NE	NE				
Phenol-d6	NE NE	NE NE	NE	NE	NE	NE	NE	NE				
Nitrobenzene-d5	0.35847 0.33135	0.33688 0.31866	0.34994	0.32911	0.33873	0.30360	0.33334	5.160				
2-Fluorobiphenyl	1.56485 1.51386	1.50533 1.44464	1.78010	1.61832	1.49752	1.52796	1.55657	6.656				
105 2,4,6-Tribromophenol	NE NE	NE NE	NE	NE	NE	NE	NE	NE				
158 4-Terphenyl-d14	1.90541 1.92766	1.83082 1.91858	1.91899	1.73323	1.90173	1.90441	1.88010	3.537				

NE - Not Evaluated, AVRG - Averaged, LINR - Linear Regression, WLIN - Weighted Linear, QUAD - Quadratic, * - Curve Fit Outside Limits

right solutions.
right partner.

Form 6I

Initial Calibration Verification (ICV)

Workorder

HS22080933

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

09/08/2022

Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder HS22080933

RunID SV-6_410398

Volatiles Organics by Method 8260C

Instrument ID SV6.i ICAL Date 10-MAR-2022
Lab File ID 010.D ICAL Time 1025
?VAL? ?VAL? Conc Units ug/L
Analysis Type SV Level LOW

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
1,4-Dioxane	0.08000	0.08051	100.64	40-140	
Nitrobenzene-d5	0.08000	0.07786	97.33	40-140	
2-Fluorobiphenyl	0.08000	0.08171	102.14	40-140	
158 4-Terphenyl-d14	0.08000	0.06597	82.47	40-140	

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: HS220933

Instrument ID: SV6 Calibration Date: 08/23/22 Time: 1031

Lab File ID: 03 Init. Calib. Date(s): 03/10/22 03/10/22

Init. Calib. Times: 1025 1256

GC Column: RTX-5SIL MS ID: 0.28 (mm)

COMPOUND	RRF OR AMOUNT	RRF8e-002 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
1,4-Dioxane	4.1e-002	4.44e-002	0.01	8.29	20.00	AVRG
Nitrobenzene-d5	0.3330000	0.3125592	0.01	-6.14	20.00	AVRG
4-Terphenyl-d14	1.8800000	1.7815958	0.01	-5.23	20.00	AVRG
2-Fluorobiphenyl	1.5570000	1.5528194	0.01	-0.27	20.00	AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: HS22080933

Instrument ID: SV6 Calibration Date: 08/23/22 Time: 1903

Lab File ID: 31 Init. Calib. Date(s): 03/10/22 03/10/22

Init. Calib. Times: 1025 1256

GC Column: RTX-5SIL MS ID: 0.28 (mm)

COMPOUND	RRF OR AMOUNT	RRF8e-002 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
1,4-Dioxane	4.1e-002	4.25e-002	0.01	3.66	50.00	AVRG
Nitrobenzene-d5	0.3330000	0.3194666	0.01	-4.06	50.00	AVRG
4-Terphenyl-d14	1.8800000	1.3774718	0.01	-26.73	50.00	AVRG
2-Fluorobiphenyl	1.5570000	0.7893068	0.01	-49.30	50.00	AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: HS22080933

Instrument ID: SV6 Calibration Date: 08/27/22 Time: 1126

Lab File ID: 03 Init. Calib. Date(s): 03/10/22 03/10/22

Init. Calib. Times: 1025 1256

GC Column: RTX-5SIL MS ID: 0.28 (mm)

COMPOUND	RRF OR AMOUNT	RRF8e-002 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
1,4-Dioxane	4.1e-002	4.87e-002	0.01	18.78	20.00	AVRG
Nitrobenzene-d5	0.3330000	0.3287121	0.01	-1.29	20.00	AVRG
4-Terphenyl-d14	1.8800000	1.7584777	0.01	-6.46	20.00	AVRG
2-Fluorobiphenyl	1.5570000	1.5575743	0.01	0.04	20.00	AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: HS22080933

Instrument ID: SV6 Calibration Date: 08/27/22 Time: 2022

Lab File ID: 32 Init. Calib. Date(s): 03/10/22 03/10/22

Init. Calib. Times: 1025 1256

GC Column: RTX-5SIL MS ID: 0.28 (mm)

COMPOUND	RRF OR AMOUNT	RRF8e-002 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
1,4-Dioxane	4.1e-002	4.31e-002	0.01	5.12	50.00	AVRG
Nitrobenzene-d5	0.3330000	0.3046981	0.01	-8.50	50.00	AVRG
4-Terphenyl-d14	1.8800000	1.7325387	0.01	-7.84	50.00	AVRG
2-Fluorobiphenyl	1.5570000	1.3824357	0.01	-11.21	50.00	AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: HS22080933

Instrument ID: SV6 Calibration Date: 08/29/22 Time: 1104

Lab File ID: 04 Init. Calib. Date(s): 03/10/22 03/10/22

Init. Calib. Times: 1025 1256

GC Column: RTX-5SIL MS ID: 0.28 (mm)

COMPOUND	RRF OR AMOUNT	RRF8e-002 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
1,4-Dioxane	4.1e-002	4.76e-002	0.01	16.10	20.00	AVRG
Nitrobenzene-d5	0.3330000	0.3211820	0.01	-3.55	20.00	AVRG
4-Terphenyl-d14	1.8800000	1.8042986	0.01	-4.03	20.00	AVRG
2-Fluorobiphenyl	1.5570000	1.4189287	0.01	-8.87	20.00	AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: HS22080933

Instrument ID: SV6 Calibration Date: 08/29/22 Time: 1739

Lab File ID: 25 Init. Calib. Date(s): 03/10/22 03/10/22

Init. Calib. Times: 1025 1256

GC Column: RTX-5SIL MS ID: 0.28 (mm)

COMPOUND	RRF OR AMOUNT	RRF8e-002 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
1,4-Dioxane	4.1e-002	4.41e-002	0.01	7.56	50.00	AVRG
Nitrobenzene-d5	0.3330000	0.2653500	0.01	-20.32	50.00	AVRG
4-Terphenyl-d14	1.8800000	1.4565322	0.01	-22.52	50.00	AVRG
2-Fluorobiphenyl	1.5570000	1.2050948	0.01	-22.60	50.00	AVRG

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: HS220933

Lab File ID (Standard): 03 Date Analyzed: 08/23/22

Instrument ID: SV6 Time Analyzed: 1031

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	6003	3.59	15829	4.71	7005	6.38
	UPPER LIMIT	12006	4.09	31658	5.21	14010	6.88
	LOWER LIMIT	3002	3.09	7915	4.21	3503	5.88
	CLIENT SAMPLE NO.						
01	MBLK-182674	3740	3.60	16600	4.71	8229	6.38
02	LCS-182674	11766	3.60	15196	4.71	7453	6.38
03	LCSD-182674	6088	3.60	15376	4.71	7630	6.38
04							
05							
06							
07							
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 internal standard area values 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.: HS220933

Lab File ID (Standard): 03 Date Analyzed: 08/23/22

Instrument ID: SV6 Time Analyzed: 1031

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	17339	7.83	7501	10.66	5111	12.72
	UPPER LIMIT	34678	8.33	15002	11.16	10222	13.22
	LOWER LIMIT	8670	7.33	3751	10.16	2556	12.22
	CLIENT SAMPLE NO.						
01	MBLK-182674	14728	7.82	8245	10.66	5780	12.72
02	LCS-182674	13138	7.83	6821	10.66	4654	12.72
03	LCSD-182674	13386	7.83	7419	10.66	4882	12.72
04							
05							
06							
07							
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 internal standard area values 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.: HS22080933

Lab File ID (Standard): 03 Date Analyzed: 08/27/22

Instrument ID: SV6 Time Analyzed: 1126

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	5445	3.37	14264	4.47	8311	6.14
	UPPER LIMIT	10890	3.87	28528	4.97	16622	6.64
	LOWER LIMIT	2723	2.87	7132	3.97	4156	5.64
	CLIENT SAMPLE NO.						
01	HS22080933-01	5575	3.37	12842	4.47	6918	6.13
02	HS22080933-02	5313	3.37	10117	4.47	5430	6.14
03	HS22080933-03	5945	3.37	10325	4.47	5573	6.14
04	HS22080933-04	4278	3.37	8535	4.47	6465	6.14
05	HS22080933-06	4896	3.37	10148	4.47	6530	6.14
06	HS22080933-07	6545	3.37	15177	4.47	9447	6.14
07							
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 internal standard area values 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.: HS22080933

Lab File ID (Standard): 03 Date Analyzed: 08/27/22

Instrument ID: SV6 Time Analyzed: 1126

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	17053	7.58	6694	10.33	5099	12.32
	UPPER LIMIT	34106	8.08	13388	10.83	10198	12.82
	LOWER LIMIT	8527	7.08	3347	9.83	2550	11.82
	CLIENT SAMPLE NO.						
01	HS22080933-01	11973	7.57	6055	10.33	5207	12.31
02	HS22080933-02	9958	7.58	4904	10.33	3599	12.32
03	HS22080933-03	10046	7.58	5732	10.33	4581	12.32
04	HS22080933-04	8700	7.58	3909	10.33	3050	12.32
05	HS22080933-06	8823	7.58	4519	10.33	4126	12.33
06	HS22080933-07	14206	7.58	7363	10.33	6573	12.32
07							
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 internal standard area values 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.: HS22080933

Lab File ID (Standard): 04 Date Analyzed: 08/29/22

Instrument ID: SV6 Time Analyzed: 1104

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	6461	3.32	18105	4.42	10352	6.08
	UPPER LIMIT	12922	3.82	36210	4.92	20704	6.58
	LOWER LIMIT	3231	2.82	9053	3.92	5176	5.58
	CLIENT SAMPLE NO.						
01	HS22080933-02	4661	3.32	9832	4.42	5855	6.09
02	HS22080933-03	5147	3.32	11741	4.42	6806	6.08
03	HS22080933-04	5261	3.33	13107	4.42	7531	6.08
04							
05							
06							
07							
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 internal standard area values 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.: HS22080933

Lab File ID (Standard): 04 Date Analyzed: 08/29/22

Instrument ID: SV6 Time Analyzed: 1104

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	15296	7.52	7293	10.26	5301	12.23
	UPPER LIMIT	30592	8.02	14586	10.76	10602	12.73
	LOWER LIMIT	7648	7.02	3647	9.76	2651	11.73
	CLIENT SAMPLE NO.						
01	HS22080933-02	8667	7.53	3906	10.26	3730	12.23
02	HS22080933-03	9964	7.52	4747	10.26	2904	12.23
03	HS22080933-04	11235	7.52	4818	10.25	3158	12.22
04							
05							
06							
07							
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 internal standard area values with an asterisk.
* Values outside of QC limits.

right solutions.
right partner.

Form 12

Preparation Log

SW3510

Workorder

HS22080933

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

09/08/2022

Form 12 - Preparation Log

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

RunID
182674

EPA 8270SIM

Prep Batch 182674 **Prep Method** **Prep Date** 08/19/22

	Matrix	Type	Lab Sample ID	Initial Amt (mL)	Final Amt (mL)	Client Sample ID
1	Aqueous	MBLK	MBLK-182674	1000	1	MBLK-182674
2	Aqueous	LCS	LCS-182674	1000	1	LCS-182674
3	Aqueous	LCSD	LCSD-182674	1000	1	LCSD-182674
4	Groundwater	SAMP	HS22080933-01	1000	1	18CPTMW03SW_081522
5	Groundwater	SAMP	HS22080933-02	1000	1	1824DPTMW05_081522
6	Groundwater	SAMP	HS22080933-03	1000	1	120_081522
7	Groundwater	SAMP	HS22080933-04	1000	1	MW14_081522
8	Groundwater	SAMP	HS22080933-06	1000	1	18WW25_081522
9	Groundwater	SAMP	HS22080933-07	1000	1	18CPTMW15_081522

right solutions.
right partner.

Analysis Run Log

Workorder

HS22080933

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

09/08/2022

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP 18 24

Workorder
HS22080933

RunID
SV-6_410398

Instrument ID SV-6 **Matrix** R410398 **Start Date** 03/10/2022 **EndDate** 03/10/2022

Client Sample ID	Type	Lab Sample ID	DF	Analysis Date	File ID
DFTPP	TUNE	DFTPP	1	03/10/22 10:15	001.D
1 4 DX-0.08	ICAL4	1 4 DX-0.08	1	03/10/22 10:25	002.D
1 4 DX-0.01	ICAL1	1 4 DX-0.01	1	03/10/22 10:47	003.D
1 4 DX-0.03	ICAL2	1 4 DX-0.03	1	03/10/22 11:05	004.D
1 4 DX-0.05	ICAL3	1 4 DX-0.05	1	03/10/22 11:22	005.D
1 4 DX-0.1	ICAL5	1 4 DX-0.1	1	03/10/22 11:40	006.D
1 4 DX-0.15	ICAL6	1 4 DX-0.15	1	03/10/22 11:58	007.D
1 4 DX-0.2	ICAL7	1 4 DX-0.2	1	03/10/22 12:16	008.D
1 4 DX-0.5	ICAL8	1 4 DX-0.5	1	03/10/22 12:56	009.D
1 4 DX-ICV	ICV	1 4 DX-ICV	1	03/10/22 14:15	010.D

SV06 -Logbook

Batch: 50796 **Analyst:** Marco Gutierrez

Date: 08-23-2022 **Reviewer:**

Method: R8270LL SIM **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	DFTPP	TUNE	08-23-2022 09:33 am	1.00	0.00 gm	0.00 mL	01.D		Y	NA
2	SLSTD-2.5	CCV	08-23-2022 09:45 am	1.00	1000.00 mL	1000.00 mL	02.D	Liquid	Y	NA
3	1 4DIOX-CCV	CCV	08-23-2022 10:31 am	1.00	1000.00 mL	1000.00 mL	03.D	Liquid	Y	NA
4	MBLK-182382	MBLK	08-23-2022 11:16 am	1.00	1000.00 mL	1000.00 mL	05.D	Liquid	Y	NA
5	LCS-182382	LCS	08-23-2022 11:34 am	1.00	1000.00 mL	1000.00 mL	06.D	Liquid	Y	NA
6	LCSD-182382	LCSD	08-23-2022 11:52 am	1.00	1000.00 mL	1000.00 mL	07.D	Liquid	Y	NA
7	MBLK-182546	MBLK	08-23-2022 12:10 pm	1.00	1000.00 mL	1000.00 mL	08.D	Liquid	Y	NA
8	LCS-182546	LCS	08-23-2022 12:27 pm	1.00	1000.00 mL	1000.00 mL	09.D	Liquid	Y	NA
9	LCSD-182546	LCSD	08-23-2022 12:45 pm	1.00	1000.00 mL	1000.00 mL	10.D	Liquid	Y	NA
10	MBLK-182674	SAMP	08-23-2022 01:03 pm	1.00	1000.00 mL	1000.00 mL	11.D	Liquid	Y	NA
11	LCS-182674	LCS	08-23-2022 01:21 pm	1.00	1000.00 mL	1000.00 mL	12.D	Liquid	Y	NA
12	LCSD-182674	LCSD	08-23-2022 01:39 pm	1.00	1000.00 mL	1000.00 mL	13.D	Liquid	Y	NA
13	HS22080472-01	SAMP	08-23-2022 01:57 pm	1.00	1000.00 mL	1000.00 mL	14.D	Liquid	Y	NA
14	HS22080499-01	SAMP	08-23-2022 02:15 pm	1.00	1000.00 mL	1000.00 mL	15.D	Liquid	Y	NA
15	HS22080499-02	SAMP	08-23-2022 02:33 pm	1.00	1000.00 mL	1000.00 mL	16.D	Liquid	Y	NA
16	HS22080499-03	SAMP	08-23-2022 02:51 pm	1.00	1000.00 mL	1000.00 mL	17.D	Liquid	Y	NA
17	HS22080499-04	SAMP	08-23-2022 03:09 pm	1.00	1000.00 mL	1000.00 mL	18.D	Liquid	Y	NA
18	HS22080499-06	SAMP	08-23-2022 03:27 pm	1.00	1000.00 mL	1000.00 mL	19.D	Liquid	Y	NA
19	HS22080499-07	SAMP	08-23-2022 03:45 pm	1.00	1000.00 mL	1000.00 mL	20.D	Liquid	Y	NA
20	HS22080499-08	SAMP	08-23-2022 04:03 pm	1.00	1000.00 mL	1000.00 mL	21.D	Liquid	Y	NA
21	HS22080522-01	SAMP	08-23-2022 04:21 pm	1.00	1000.00 mL	1000.00 mL	22.D	Liquid	Y	NA
22	HS22080522-02	SAMP	08-23-2022 04:39 pm	1.00	1000.00 mL	1000.00 mL	23.D	Liquid	Y	NA
23	HS22080522-03	SAMP	08-23-2022 04:57 pm	1.00	1000.00 mL	1000.00 mL	24.D	Liquid	Y	NA
24	HS22080522-04	SAMP	08-23-2022 05:15 pm	1.00	1000.00 mL	1000.00 mL	25.D	Liquid	Y	NA
25	HS22080522-08	SAMP	08-23-2022 05:33 pm	1.00	1000.00 mL	1000.00 mL	26.D	Liquid	Y	NA
26	HS22080522-09	SAMP	08-23-2022 05:51 pm	1.00	1000.00 mL	1000.00 mL	27.D	Liquid	Y	NA
27	HS22080522-10	SAMP	08-23-2022 06:09 pm	1.00	1000.00 mL	1000.00 mL	28.D	Liquid	Y	NA
28	HS22080472-01	SAMP	08-23-2022 06:27 pm	100.0(	1000.00 mL	1000.00 mL	29.D	Liquid	Y	NA
29	HS22080499-01	SAMP	08-23-2022 06:45 pm	10.00	1000.00 mL	1000.00 mL	30.D	Liquid	Y	NA
30	1 4DIOX-CCV	CCV	08-23-2022 07:03 pm	1.00	1000.00 mL	1000.00 mL	31.D	Liquid	Y	NA

SV06 -Logbook

Batch: 50834 **Analyst:** Marco Gutierrez

Date: 08-27-2022 **Reviewer:**

Method: R8270D LVI/SIM **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	DFTPP	TUNE	08-27-2022 10:44 am	1.00	0.00 gm	0.00 mL	01.D		Y	NA
2	SLSTD-2.5	CCV	08-27-2022 10:56 am	1.00	1000.00 mL	1000.00 mL	02.D	Liquid	Y	NA
3	1 4-DIOX-0.08	CCV	08-27-2022 11:26 am	1.00	1000.00 mL	1000.00 mL	03.D	Liquid	Y	NA
4	1 4-DIOX CCB	SAMP	08-27-2022 12:00 pm	1.00	1000.00 mL	1000.00 mL	04.D	Liquid	Y	NA
5	HS22080927-05	SAMP	08-27-2022 12:18 pm	1.00	1000.00 mL	1000.00 mL	05.D	Liquid	Y	NA
6	HS22080927-06	SAMP	08-27-2022 12:36 pm	1.00	1000.00 mL	1000.00 mL	06.D	Liquid	Y	NA
7	HS22080927-07	SAMP	08-27-2022 12:54 pm	1.00	1000.00 mL	1000.00 mL	07.D	Liquid	Y	NA
8	HS22080927-08	SAMP	08-27-2022 01:12 pm	1.00	1000.00 mL	1000.00 mL	08.D	Liquid	Y	NA
9	HS22080927-09	SAMP	08-27-2022 01:29 pm	1.00	1000.00 mL	1000.00 mL	09.D	Liquid	Y	NA
10	HS22080927-10	SAMP	08-27-2022 01:47 pm	1.00	1000.00 mL	1000.00 mL	10.D	Liquid	Y	NA
11	HS22080933-01	SAMP	08-27-2022 02:05 pm	1.00	1000.00 mL	1000.00 mL	11.D	Liquid	Y	NA
12	HS22080933-02	SAMP	08-27-2022 02:23 pm	1.00	1000.00 mL	1000.00 mL	12.D	Liquid	Y	NA
13	HS22080933-03	SAMP	08-27-2022 02:41 pm	1.00	1000.00 mL	1000.00 mL	13.D	Liquid	Y	NA
14	HS22080933-04	SAMP	08-27-2022 02:59 pm	1.00	1000.00 mL	1000.00 mL	14.D	Liquid	Y	NA
15	HS22080933-06	SAMP	08-27-2022 03:17 pm	1.00	1000.00 mL	1000.00 mL	15.D	Liquid	Y	NA
16	HS22080933-07	SAMP	08-27-2022 03:35 pm	1.00	1000.00 mL	1000.00 mL	16.D	Liquid	Y	NA
17	HS22081026-01	SAMP	08-27-2022 03:53 pm	1.00	1000.00 mL	1000.00 mL	17.D	Liquid	Y	NA
18	HS22081026-04	SAMP	08-27-2022 04:11 pm	1.00	1000.00 mL	1000.00 mL	18.D	Liquid	Y	NA
19	HS22081026-05	SAMP	08-27-2022 04:29 pm	1.00	1000.00 mL	1000.00 mL	19.D	Liquid	Y	NA
20	HS22081026-06	SAMP	08-27-2022 04:47 pm	1.00	1000.00 mL	1000.00 mL	20.D	Liquid	Y	NA
21	HS22081026-07	SAMP	08-27-2022 05:05 pm	1.00	1000.00 mL	1000.00 mL	21.D	Liquid	Y	NA
22	HS22081097-02	SAMP	08-27-2022 05:23 pm	1.00	1000.00 mL	1000.00 mL	22.D	Liquid	Y	NA
23	HS22081097-04	SAMP	08-27-2022 05:41 pm	1.00	1000.00 mL	1000.00 mL	23.D	Liquid	Y	NA
24	HS22081097-05	SAMP	08-27-2022 05:58 pm	1.00	1000.00 mL	1000.00 mL	24.D	Liquid	Y	NA
25	HS22081097-07	SAMP	08-27-2022 06:16 pm	1.00	1000.00 mL	1000.00 mL	25.D	Liquid	Y	NA
26	HS22081097-08	SAMP	08-27-2022 06:34 pm	1.00	1000.00 mL	1000.00 mL	26.D	Liquid	Y	NA
27	HS22081120-01	SAMP	08-27-2022 06:52 pm	1.00	1000.00 mL	1000.00 mL	27.D	Liquid	Y	NA
28	HS22081120-02	SAMP	08-27-2022 07:10 pm	1.00	1000.00 mL	1000.00 mL	28.D	Liquid	Y	NA
29	HS22081120-03	SAMP	08-27-2022 07:28 pm	1.00	1000.00 mL	1000.00 mL	29.D	Liquid	Y	NA
30	HS22081120-04	SAMP	08-27-2022 07:46 pm	1.00	1000.00 mL	1000.00 mL	30.D	Liquid	Y	NA
31	HS22081120-05	SAMP	08-27-2022 08:04 pm	1.00	1000.00 mL	1000.00 mL	31.D	Liquid	Y	NA
32	1 4-DIOX-0.08	CCV	08-27-2022 08:22 pm	1.00	1000.00 mL	1000.00 mL	32.D	Liquid	Y	NA
33	1 4-DIOX CCB	SAMP	08-27-2022 08:40 pm	1.00	1000.00 mL	1000.00 mL	33.D	Liquid	Y	NA

SV06 -Logbook

Batch: 50846 **Analyst:** Marco Gutierrez

Date: 08-29-2022 **Reviewer:**

Method: R8270DLVISIM **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	DFTPP	TUNE	08-29-2022 09:25 am	1.00	0.00 gm	0.00 mL	01.D		Y	NA
2	SLSTD-2.5	CCV	08-29-2022 09:37 am	1.00	1000.00 mL	1000.00 mL	02.D	Liquid	Y	NA
3	LVI PAH-0.025	CCV	08-29-2022 10:21 am	1.00	33.00 mL	2000.00 mL	03.D	Liquid	Y	NA
4	1 4-DIOX-0.08	CCV	08-29-2022 11:04 am	1.00	1000.00 mL	1000.00 mL	04.D	Liquid	Y	NA
5	CCB	SAMP	08-29-2022 11:25 am	1.00	1000.00 mL	1000.00 mL	05.D	Liquid	Y	NA
6	HS22081003-06	SAMP	08-29-2022 11:43 am	250.0(	33.00 mL	2000.00 mL	06.D	Liquid	Y	NA
7	HS22081144-01	SAMP	08-29-2022 12:03 pm	100.0(	33.00 mL	2000.00 mL	07.D	Liquid	Y	NA
8	HS22081146-01	SAMP	08-29-2022 12:23 pm	100.0(	33.00 mL	2000.00 mL	08.D	Liquid	Y	NA
9	HS22081146-02	SAMP	08-29-2022 12:43 pm	250.0(	33.00 mL	2000.00 mL	09.D	Liquid	Y	NA
10	HS22081092-02	SAMP	08-29-2022 01:03 pm	100.0(	33.00 mL	2000.00 mL	10.D	Liquid	Y	NA
11	HS22081120-06	SAMP	08-29-2022 01:23 pm	1.00	1000.00 mL	1000.00 mL	11.D	Liquid	Y	NA
12	HS22081311-02	SAMP	08-29-2022 01:41 pm	1.00	1000.00 mL	1000.00 mL	12.D	Liquid	Y	NA
13	HS22081311-03	SAMP	08-29-2022 01:59 pm	1.00	1000.00 mL	1000.00 mL	13.D	Liquid	Y	NA
14	HS22081311-06	SAMP	08-29-2022 02:17 pm	1.00	1000.00 mL	1000.00 mL	14.D	Liquid	Y	NA
15	HS22081275-01	SAMP	08-29-2022 02:35 pm	1.00	33.00 mL	2000.00 mL	15.D	Liquid	Y	NA
16	HS22081359-01	SAMP	08-29-2022 02:55 pm	1.00	33.00 mL	2000.00 mL	16.D	Liquid	Y	NA
17	HS22080927-05X50	SAMP	08-29-2022 03:16 pm	1.00	1000.00 mL	1000.00 mL	17.D	Liquid	Y	NA
18	HS22080933-02X1H	SAMP	08-29-2022 03:33 pm	1.00	1000.00 mL	1000.00 mL	18.D	Liquid	Y	NA
19	HS22080933-03X1H	SAMP	08-29-2022 03:51 pm	1.00	1000.00 mL	1000.00 mL	19.D	Liquid	Y	NA
20	HS22080933-04X1K	SAMP	08-29-2022 04:09 pm	1.00	1000.00 mL	1000.00 mL	20.D	Liquid	Y	NA
21	HS22081026-01X10	SAMP	08-29-2022 04:27 pm	1.00	1000.00 mL	1000.00 mL	21.D	Liquid	Y	NA
22	HS22081120-01X10	SAMP	08-29-2022 04:45 pm	1.00	1000.00 mL	1000.00 mL	22.D	Liquid	Y	NA
23	HS22081120-03X1H	SAMP	08-29-2022 05:03 pm	1.00	1000.00 mL	1000.00 mL	23.D	Liquid	Y	NA
24	HS22081311-03X10	SAMP	08-29-2022 05:21 pm	1.00	1000.00 mL	1000.00 mL	24.D	Liquid	Y	NA
25	1 4-DIOX-0.08	CCV	08-29-2022 05:39 pm	1.00	1000.00 mL	1000.00 mL	25.D	Liquid	Y	NA
26	CCB	SAMP	08-29-2022 05:57 pm	1.00	1000.00 mL	1000.00 mL	26.D	Liquid	Y	NA
27	MBLK-182941RR	SAMP	08-29-2022 06:15 pm	1.00	33.00 mL	2000.00 mL	27.D	Liquid	Y	NA
28	LCS-182941RR	SAMP	08-29-2022 06:35 pm	1.00	33.00 mL	2000.00 mL	28.D	Liquid	Y	NA
29	HS22081148-02RR	SAMP	08-29-2022 06:55 pm	1.00	33.00 mL	2000.00 mL	29.D	Liquid	Y	NA
30	HS22081148-02MSRR	SAMP	08-29-2022 07:15 pm	1.00	33.00 mL	2000.00 mL	30.D	Liquid	Y	NA
31	HS22081148-02MSDRR	SAMP	08-29-2022 07:36 pm	1.00	33.00 mL	2000.00 mL	31.D	Liquid	Y	NA
32	HS22081148-19	SAMP	08-29-2022 07:56 pm	1.00	33.00 mL	2000.00 mL	32.D	Liquid	Y	NA
33	HS22081148-19MS	SAMP	08-29-2022 08:16 pm	1.00	33.00 mL	2000.00 mL	33.D	Liquid	Y	NA
34	HS22081148-19MSD	SAMP	08-29-2022 08:36 pm	1.00	33.00 mL	2000.00 mL	34.D	Liquid	Y	NA
35	HS22081148-01	SAMP	08-29-2022 08:56 pm	1.00	33.00 mL	2000.00 mL	35.D	Liquid	Y	NA
36	HS22081148-03	SAMP	08-29-2022 09:17 pm	1.00	33.00 mL	2000.00 mL	36.D	Liquid	Y	NA
37	HS22081148-04	SAMP	08-29-2022 09:37 pm	1.00	33.00 mL	2000.00 mL	37.D	Liquid	Y	NA
38	HS22081148-05	SAMP	08-29-2022 09:57 pm	1.00	33.00 mL	2000.00 mL	38.D	Liquid	Y	NA
39	HS22081148-06	SAMP	08-29-2022 10:17 pm	1.00	33.00 mL	2000.00 mL	39.D	Liquid	Y	NA

right solutions.
right partner.

Raw Data SV-6 410398

Workorder

HS22080933

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

09/08/2022

Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\001.D Page 1
Report Date: 10-Mar-2022 10:29

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\SV6.i\220310.b\001.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 10-MAR-2022 10:15 MS Autotune Date: 09-MAR-2022 11:12
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220310.b\DFTPP.m
Meth Date : 09-Dec-2021 09:52 jjuarez 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: WATER
Processing Host: NAHSTW7122

Concentration Formula: Amt * DF * Uf * Vf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Cpnd Variable		Local Compound Variable

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		
5.667	6.357	-0.690	198	97000			0.00- 100.00	100.00
5.667	6.357	-0.690	51	53776			10.00- 80.00	55.44
5.667	6.357	-0.690	68	766			0.00- 2.00	1.59
5.667	6.357	-0.690	69	48284			0.00- 0.00	49.78
5.667	6.357	-0.690	70	222			0.00- 2.00	0.46
5.667	6.357	-0.690	127	57876			10.00- 80.00	59.67
5.667	6.357	-0.690	197	89			0.00- 2.00	0.09
5.667	6.357	-0.690	199	6703			5.00- 9.00	6.91
5.667	6.357	-0.690	275	20548			10.00- 60.00	21.18
5.667	6.357	-0.690	365	2011			1.00- 100.00	2.07
5.667	6.357	-0.690	441	8864			0.01- 99.99	74.94
5.667	6.357	-0.690	442	60568			50.00- 150.00	62.44
5.667	6.357	-0.690	443	11828			15.00- 24.00	19.53

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	55.44
68	Less than 2.00% of mass 69	0.79 (1.59)
69	Mass 69 relative abundance	49.78
70	Less than 2.00% of mass 69	0.23 (0.46)
127	10.00 - 80.00% of mass 198	59.67
197	Less than 2.00% of mass 198	0.09
199	5.00 - 9.00% of mass 198	6.91
275	10.00 - 60.00% of mass 198	21.18
365	1.00 - 100.00% of mass 198	2.07
441	Present, but less than mass 443	9.14
442	50.00 - 150.00% of mass 198	62.44
443	15.00 - 24.00% of mass 442	12.19 (19.53)

Data File: 001.D
Spectrum: Average Spectrum: 5.657 to 5.662 min. (SUB)
Location of Maximum: 198.00
Number of points: 255

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	59	111.00	4304	180.00	2452	257.00	491
37.00	224	112.00	539	181.00	1144	258.00	2733
38.00	615	113.00	143	182.00	177	259.00	454
39.00	3676	116.00	789	184.00	192	261.00	82
40.00	317	117.00	14919	185.00	1728	264.00	185
41.00	107	118.00	1145	186.00	13758	265.00	973
44.00	143	119.00	105	187.00	3715	266.00	174
45.00	94	120.00	150	188.00	457	268.00	88
47.00	15	122.00	973	189.00	685	270.00	75
48.00	89	123.00	1516	190.00	117	272.00	103
49.00	508	124.00	642	191.00	390	273.00	1456
50.00	14754	125.00	696	192.00	1177	274.00	3568
51.00	53776	126.00	256	193.00	1358	275.00	20544
52.00	2771	127.00	57872	194.00	259	276.00	2620
53.00	81	128.00	4240	195.00	139	277.00	1638
55.00	257	129.00	21648	196.00	2928	278.00	262
56.00	1346	130.00	1884	197.00	89	283.00	139
57.00	3111	131.00	409	198.00	97000	284.00	97
58.00	105	132.00	154	199.00	6703	285.00	237
61.00	558	134.00	606	200.00	528	293.00	305
62.00	699	135.00	1740	201.00	612	294.00	85
63.00	1803	136.00	678	203.00	645	295.00	95
64.00	268	137.00	930	204.00	3334	296.00	5500
65.00	1049	138.00	177	205.00	5688	297.00	828
68.00	766	140.00	157	206.00	23784	303.00	625
69.00	48280	141.00	2481	207.00	3124	304.00	170
70.00	222	142.00	824	208.00	849	308.00	75
73.00	474	143.00	679	209.00	168	314.00	238
74.00	5459	144.00	97	210.00	354	315.00	643
75.00	8373	145.00	111	211.00	911	316.00	288
76.00	3216	146.00	464	215.00	167	321.00	145
77.00	63088	147.00	1285	216.00	492	323.00	1574
78.00	4098	148.00	3525	217.00	6177	324.00	249
79.00	3357	149.00	673	218.00	732	327.00	240
80.00	2361	150.00	140	221.00	5622	328.00	123
81.00	3824	151.00	388	222.00	202	332.00	116
82.00	1046	152.00	197	223.00	1480	333.00	145
83.00	984	153.00	769	224.00	12590	334.00	1088
84.00	280	154.00	654	225.00	3091	335.00	208
85.00	674	155.00	1544	226.00	254	341.00	172
86.00	1189	156.00	1996	227.00	4932	346.00	310
87.00	592	157.00	598	228.00	818	352.00	508
88.00	224	158.00	423	229.00	1162	353.00	276
89.00	90	159.00	429	230.00	119	354.00	517
91.00	780	160.00	694	231.00	476	355.00	80

92.00	934	161.00	1193	233.00	83	365.00	2011
93.00	5961	162.00	336	234.00	295	366.00	237
94.00	433	163.00	100	235.00	300	371.00	101
95.00	133	164.00	97	236.00	162	372.00	897
96.00	339	165.00	922	237.00	449	373.00	165
97.00	116	166.00	761	239.00	168	383.00	177
98.00	4829	167.00	6070	240.00	144	390.00	86
99.00	3781	168.00	3181	241.00	236	402.00	245
100.00	330	169.00	504	242.00	771	403.00	502
101.00	2289	170.00	104	243.00	851	404.00	138
102.00	119	171.00	173	244.00	9664	421.00	356
103.00	671	172.00	468	245.00	1352	422.00	273
104.00	1246	173.00	626	246.00	1814	423.00	3205
105.00	1212	174.00	1018	247.00	300	424.00	810
106.00	442	175.00	1981	249.00	349	441.00	8864
107.00	16936	176.00	577	253.00	177	442.00	60568
108.00	2535	177.00	828	254.00	257	443.00	11828
109.00	409	178.00	262	255.00	47016	444.00	1210
110.00	29360	179.00	3529	256.00	7188		

Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\001.D

Date : 10-MAR-2022 10:15

Client ID: DFTPP

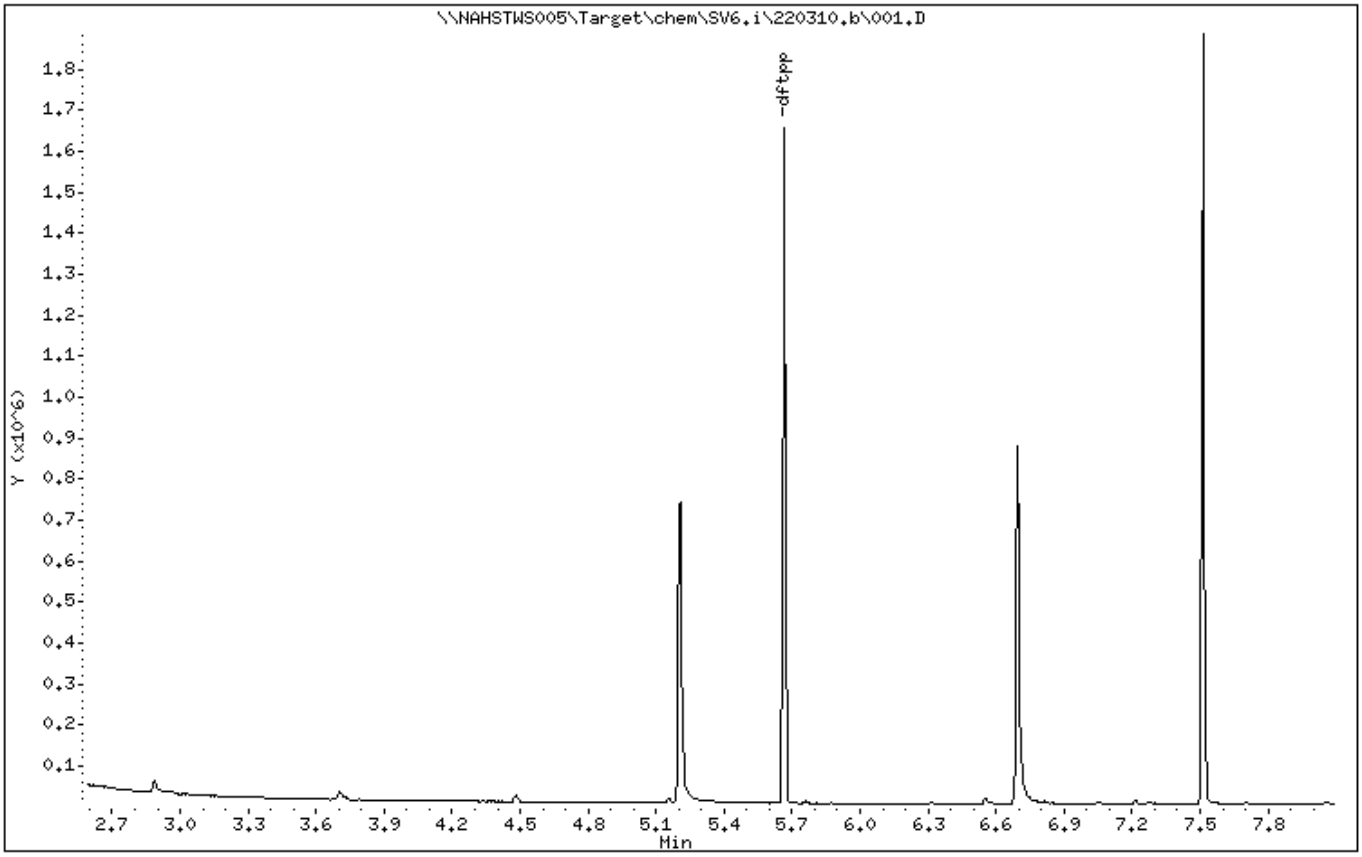
Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\001.D Page 2

Date : 10-MAR-2022 10:15

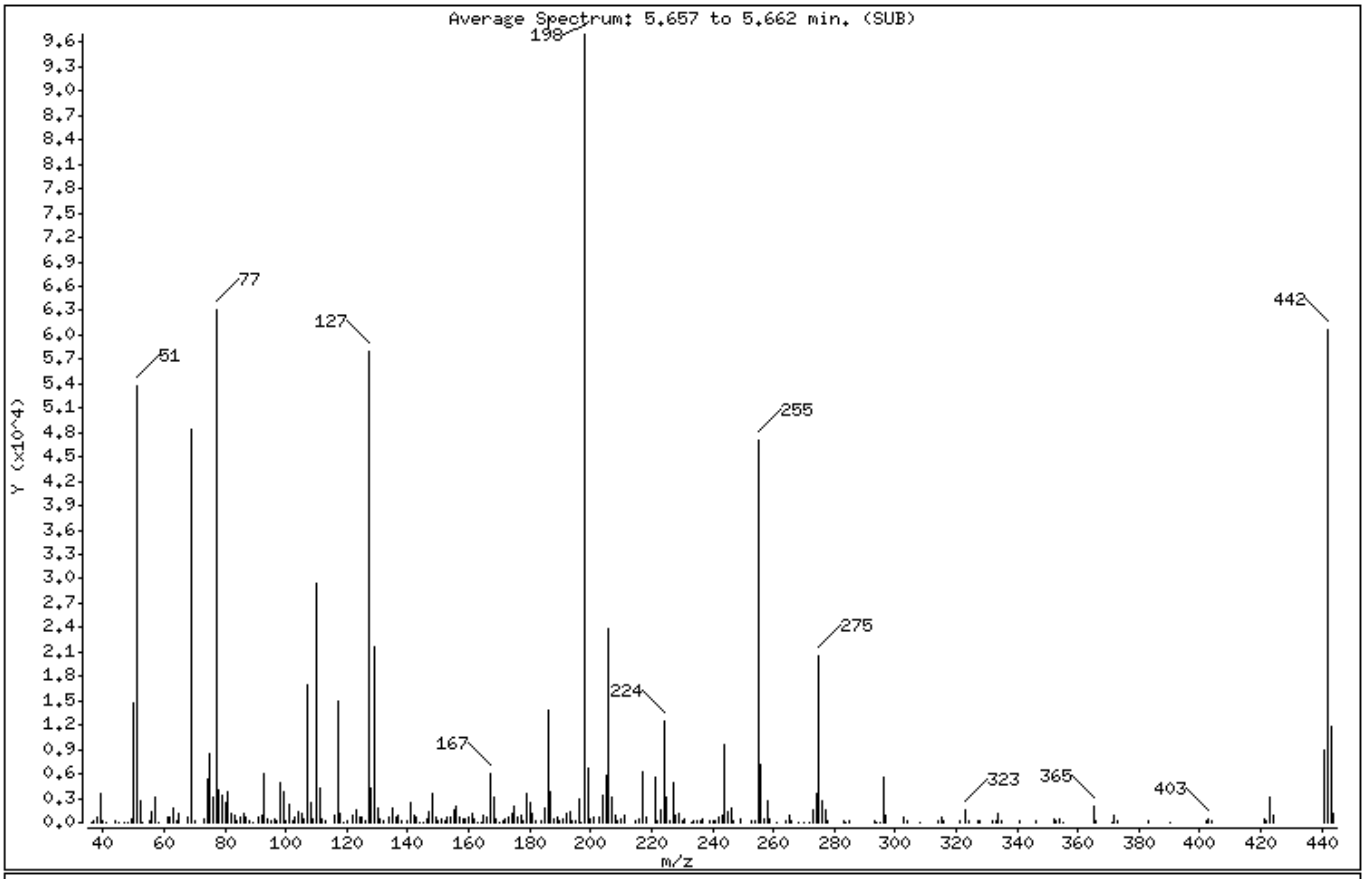
Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	55.44
68	Less than 2.00% of mass 69	0.79 (1.59)
69	Mass 69 relative abundance	49.78
70	Less than 2.00% of mass 69	0.23 (0.46)
127	10.00 - 80.00% of mass 198	59.67
197	Less than 2.00% of mass 198	0.09
199	5.00 - 9.00% of mass 198	6.91
275	10.00 - 60.00% of mass 198	21.18
365	1.00 - 100.00% of mass 198	2.07
441	Present, but less than mass 443	9.14
442	50.00 - 150.00% of mass 198	62.44
443	15.00 - 24.00% of mass 442	12.19 (19.53)

Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\001.D

Date : 10-MAR-2022 10:15

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 001.D
Spectrum: Average Spectrum: 5.657 to 5.662 min. (SUB)
Location of Maximum: 198.00
Number of points: 255

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	59	111.00	4304	180.00	2452	257.00	491
37.00	224	112.00	539	181.00	1144	258.00	2733
38.00	615	113.00	143	182.00	177	259.00	454
39.00	3676	116.00	789	184.00	192	261.00	82
40.00	317	117.00	14919	185.00	1728	264.00	185
41.00	107	118.00	1145	186.00	13758	265.00	973
44.00	143	119.00	105	187.00	3715	266.00	174
45.00	94	120.00	150	188.00	457	268.00	88
47.00	15	122.00	973	189.00	685	270.00	75
48.00	89	123.00	1516	190.00	117	272.00	103
49.00	508	124.00	642	191.00	390	273.00	1456
50.00	14754	125.00	696	192.00	1177	274.00	3568
51.00	53776	126.00	256	193.00	1358	275.00	20544
52.00	2771	127.00	57872	194.00	259	276.00	2620
53.00	81	128.00	4240	195.00	139	277.00	1638
55.00	257	129.00	21648	196.00	2928	278.00	262
56.00	1346	130.00	1884	197.00	89	283.00	139
57.00	3111	131.00	409	198.00	97000	284.00	97
58.00	105	132.00	154	199.00	6703	285.00	237
61.00	558	134.00	606	200.00	528	293.00	305
62.00	699	135.00	1740	201.00	612	294.00	85
63.00	1803	136.00	678	203.00	645	295.00	95
64.00	268	137.00	930	204.00	3334	296.00	5500
65.00	1049	138.00	177	205.00	5688	297.00	828
68.00	766	140.00	157	206.00	23784	303.00	625
69.00	48280	141.00	2481	207.00	3124	304.00	170
70.00	222	142.00	824	208.00	849	308.00	75
73.00	474	143.00	679	209.00	168	314.00	238
74.00	5459	144.00	97	210.00	354	315.00	643
75.00	8373	145.00	111	211.00	911	316.00	288
76.00	3216	146.00	464	215.00	167	321.00	145
77.00	63088	147.00	1285	216.00	492	323.00	1574
78.00	4098	148.00	3525	217.00	6177	324.00	249
79.00	3357	149.00	673	218.00	732	327.00	240
80.00	2361	150.00	140	221.00	5622	328.00	123

Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\001.D Page 4

Date : 10-MAR-2022 10:15

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 001.D
Spectrum: Average Spectrum: 5.657 to 5.662 min. (SUB)
Location of Maximum: 198.00
Number of points: 255

m/z	Y	m/z	Y	m/z	Y	m/z	Y
81.00	3824	151.00	388	222.00	202	332.00	116
82.00	1046	152.00	197	223.00	1480	333.00	145
83.00	984	153.00	769	224.00	12590	334.00	1088
84.00	280	154.00	654	225.00	3091	335.00	208
85.00	674	155.00	1544	226.00	254	341.00	172
86.00	1189	156.00	1996	227.00	4932	346.00	310
87.00	592	157.00	598	228.00	818	352.00	508
88.00	224	158.00	423	229.00	1162	353.00	276
89.00	90	159.00	429	230.00	119	354.00	517
91.00	780	160.00	694	231.00	476	355.00	80
92.00	934	161.00	1193	233.00	83	365.00	2011
93.00	5961	162.00	336	234.00	295	366.00	237
94.00	433	163.00	100	235.00	300	371.00	101
95.00	133	164.00	97	236.00	162	372.00	897
96.00	339	165.00	922	237.00	449	373.00	165
97.00	116	166.00	761	239.00	168	383.00	177
98.00	4829	167.00	6070	240.00	144	390.00	86
99.00	3781	168.00	3181	241.00	236	402.00	245
100.00	330	169.00	504	242.00	771	403.00	502
101.00	2289	170.00	104	243.00	851	404.00	138
102.00	119	171.00	173	244.00	9664	421.00	356
103.00	671	172.00	468	245.00	1352	422.00	273
104.00	1246	173.00	626	246.00	1814	423.00	3205
105.00	1212	174.00	1018	247.00	300	424.00	810
106.00	442	175.00	1981	249.00	349	441.00	8864
107.00	16936	176.00	577	253.00	177	442.00	60568
108.00	2535	177.00	828	254.00	257	443.00	11828
109.00	409	178.00	262	255.00	47016	444.00	1210
110.00	29360	179.00	3529	256.00	7188		

Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\002.D Page 1
Report Date: 25-Aug-2022 16:08

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220310.b\002.D
Lab Smp Id: 1 4 DX-0.08 Client Smp ID: 1 4 DX-0.08
Inj Date : 10-MAR-2022 10:25 MS Autotune Date: 09-MAR-2022 11:12
Operator : LG Inst ID: SV6.i
Smp Info : 1 4 DX-0.08;1 4 DX-0.08
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220310.b\DXSIM.m
Meth Date : 25-Aug-2022 16:08 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 10:25 Cal File: 002.D
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.790	3.790	(1.000)	6809	0.10000	(aM)
* 45 Naphthalene-d8	136	4.918	4.918	(1.000)	24566	0.10000	
$ 33 Nitrobenzene-d5	82	4.262	4.262	(0.867)	6468	0.08000	0.07898(M)
* 86 Acenaphthene-d10	164	6.603	6.603	(1.000)	12954	0.10000	
$ 69 2-Fluorobiphenyl	172	5.943	5.943	(0.900)	16771	0.08000	0.08317
* 126 Phenanthrene-d10	188	8.053	8.053	(1.000)	26502	0.10000	
* 182 Chrysene-d12	240	10.958	10.958	(1.000)	11837	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.656	9.656	(0.881)	16413	0.08000	0.07375(M)
* 198 Perylene-d12	264	13.085	13.085	(1.000)	8294	0.10000	
1 1,4-Dioxane	58	2.005	2.005	(0.529)	245	0.08000	0.08765(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01141399

Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\002.D

Date : 10-MAR-2022 10:25

Client ID: 1 4 DX-0.08

Instrument: SV6.i

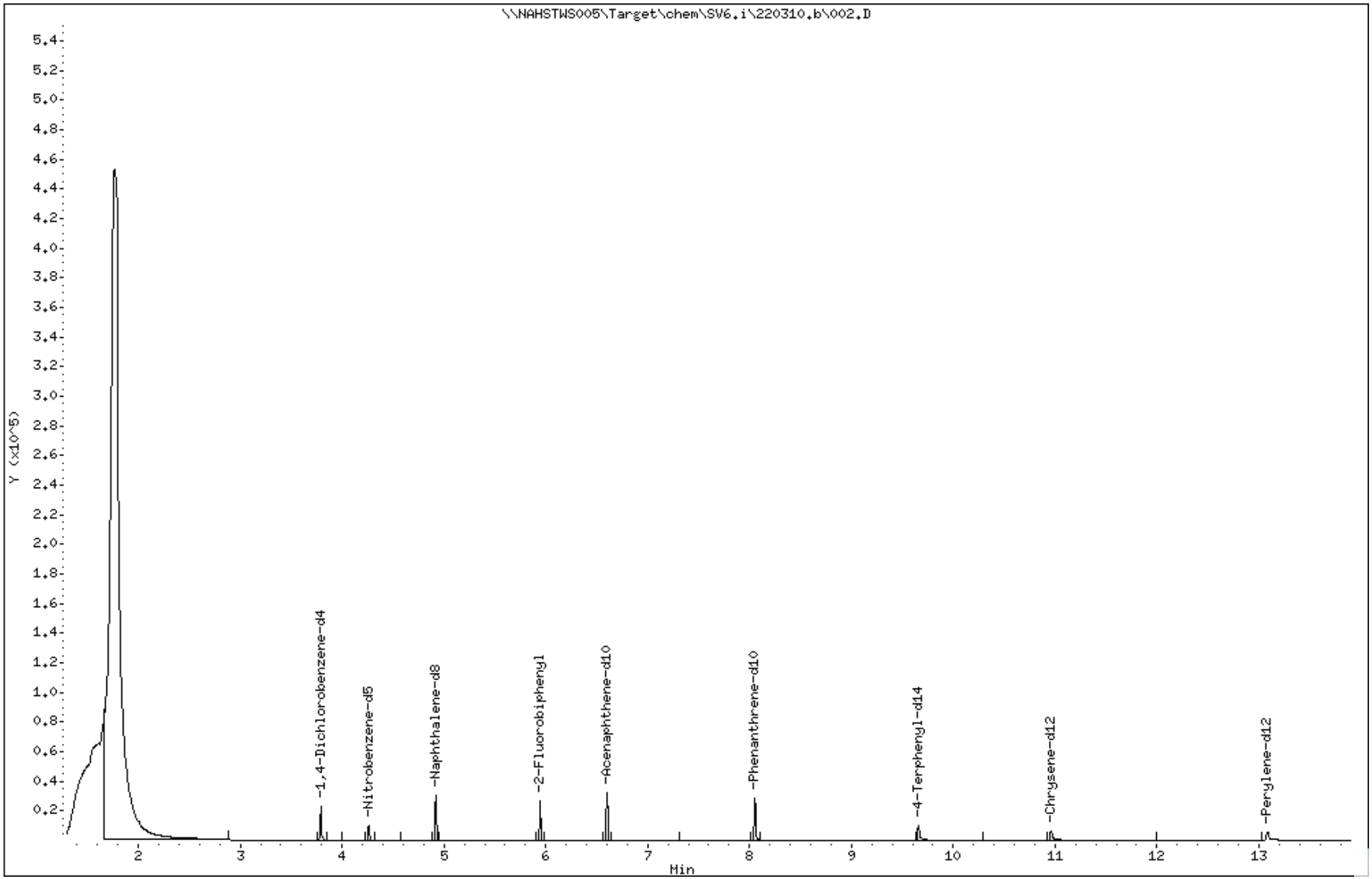
Sample Info: 1 4 DX-0.08;1 4 DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

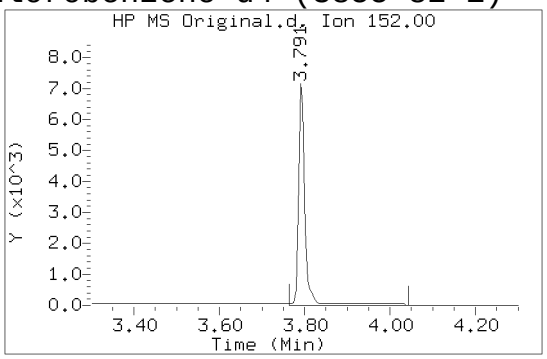


Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\002.D
Inj Date : 10-MAR-2022 10:25
InstruID : SV6.i
LabSampID : 1 4 DX-0.08

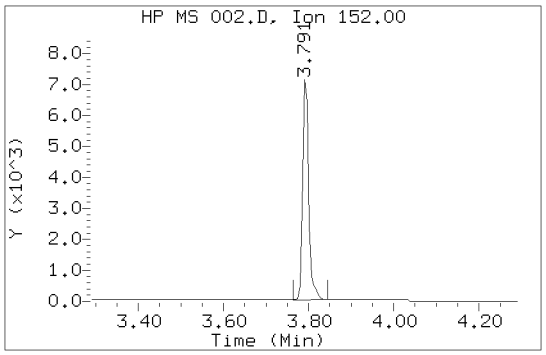
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

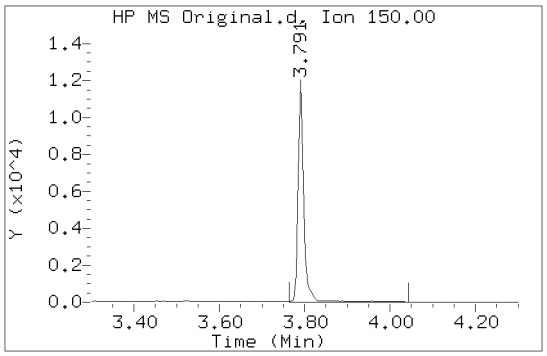
BEFORE
MASS
152
AREA
7703
HEIGHT
7154
25-Aug-2022
16:02
linh
pham



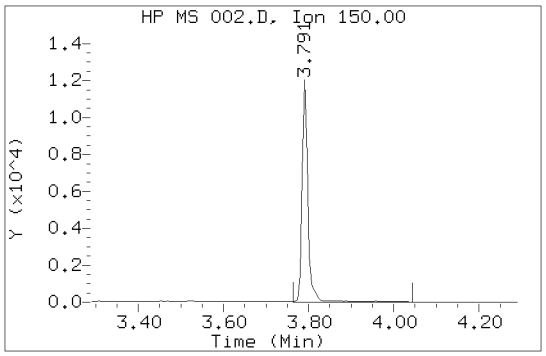
AFTER
MASS
152
AREA
6809
HEIGHT
7102
25-Aug-2022
16:08
linh
pham



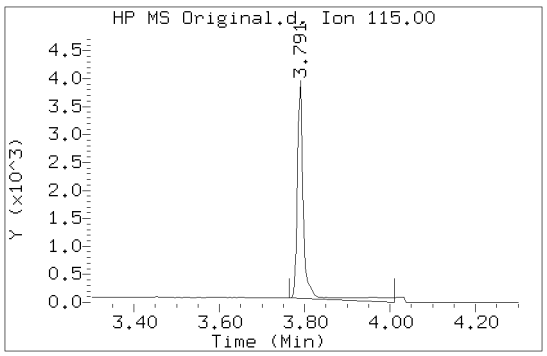
BEFORE
MASS
150
AREA
11466
HEIGHT
12036
25-Aug-2022
16:02
linh
pham



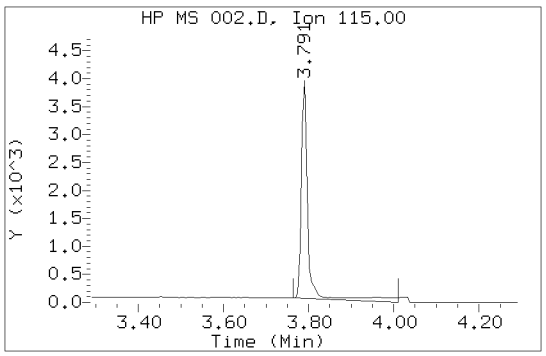
AFTER
MASS
150
AREA
11466
HEIGHT
12036
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
115
AREA
4211
HEIGHT
3890
25-Aug-2022
16:02
linh
pham



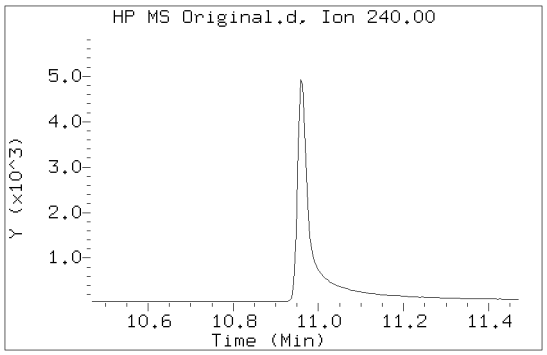
AFTER
MASS
115
AREA
4211
HEIGHT
3890
25-Aug-2022
16:08
linh
pham



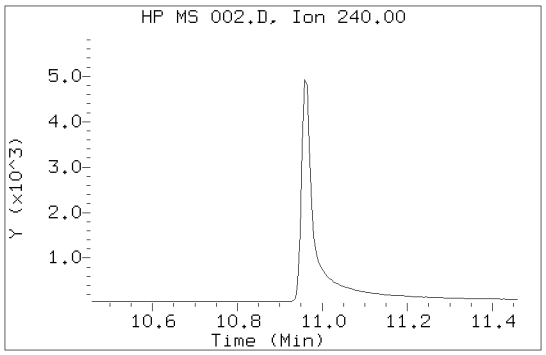
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
0
HEIGHT
0
25-Aug-2022
16:02
linh
pham



AFTER
MASS
240
AREA
11837
HEIGHT
4871
25-Aug-2022
16:08
linh
pham

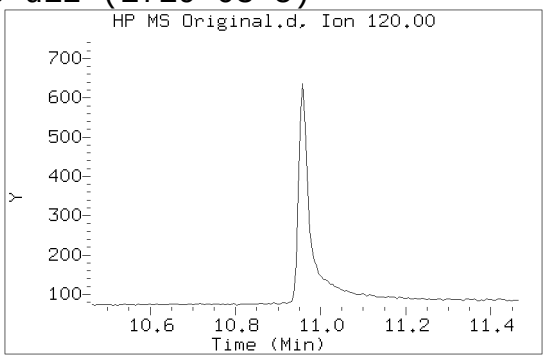


Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\002.D
Inj Date : 10-MAR-2022 10:25
InstruID : SV6.i
LabSampID : 1 4 DX-0.08

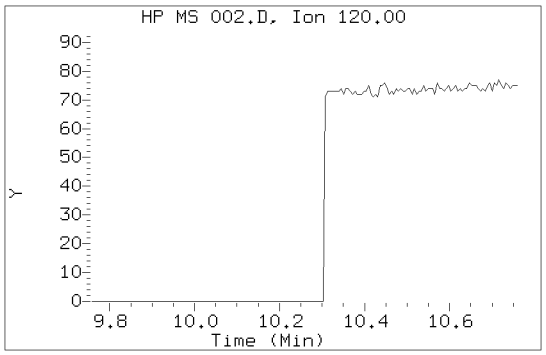
Chrysene-d12 (1719-03-5)

Reason Code:

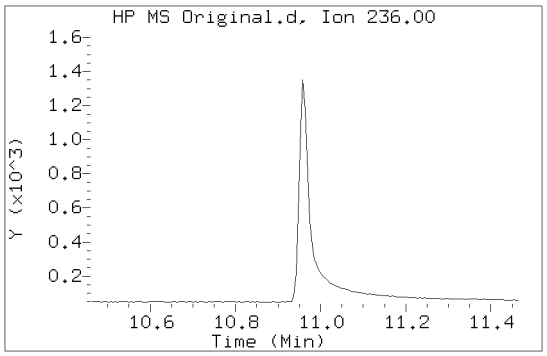
BEFORE
MASS
120
AREA
0
HEIGHT
0
25-Aug-2022
16:02
linh
pham



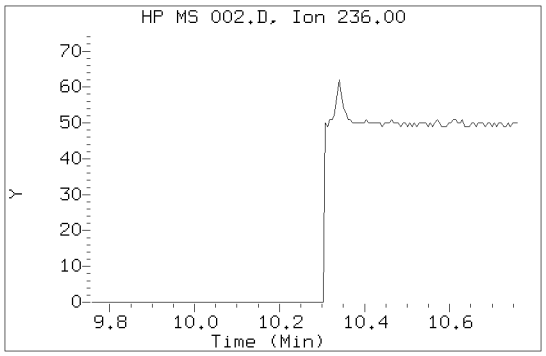
AFTER
MASS
120
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
236
AREA
0
HEIGHT
0
25-Aug-2022
16:02
linh
pham



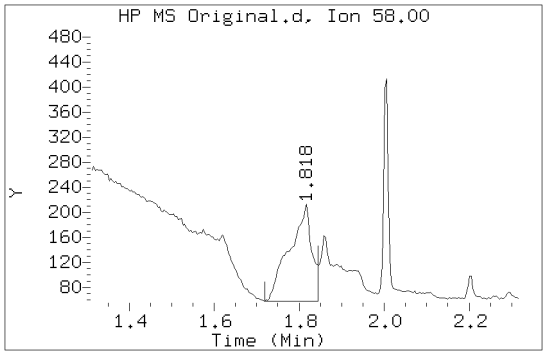
AFTER
MASS
236
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



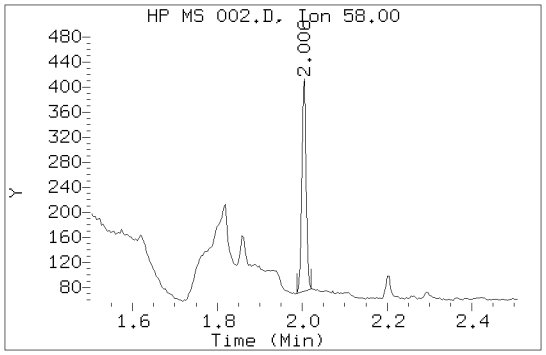
1,4-Dioxane ()

Reason Code:

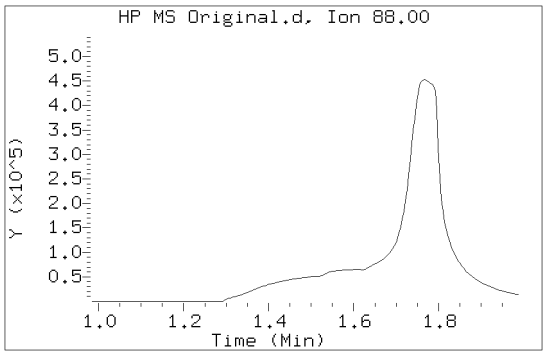
BEFORE
MASS
58
AREA
561
HEIGHT
155
25-Aug-2022
16:02
linh
pham



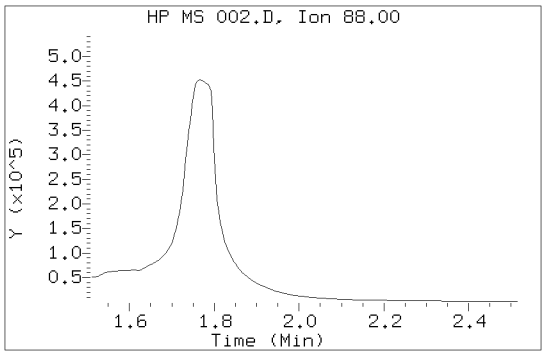
AFTER
MASS
58
AREA
245
HEIGHT
338
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
88
AREA
0
HEIGHT
0
25-Aug-2022
16:02
linh
pham



AFTER
MASS
88
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



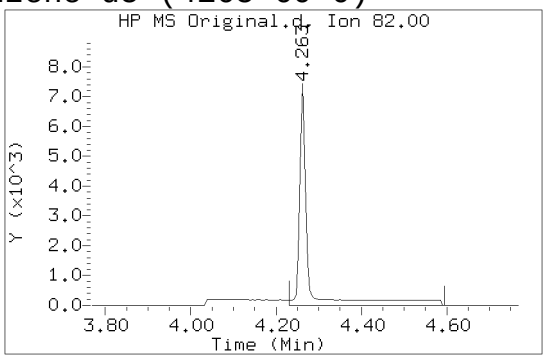
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\002.D
Inj Date : 10-MAR-2022 10:25
InstruID : SV6.i
LabSampID : 1 4 DX-0.08

Nitrobenzene-d5 (4165-60-0)

Reason Code:

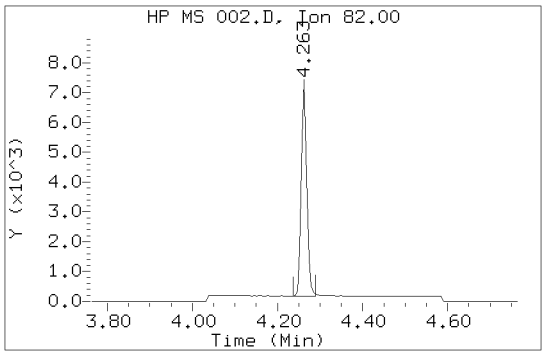
BEFORE

MASS
82
AREA
10168
HEIGHT
7437
25-Aug-2022
16:02
linh
pham



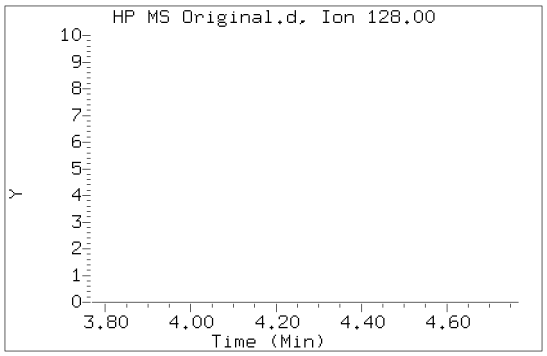
AFTER

MASS
82
AREA
6468
HEIGHT
7271
25-Aug-2022
16:08
linh
pham



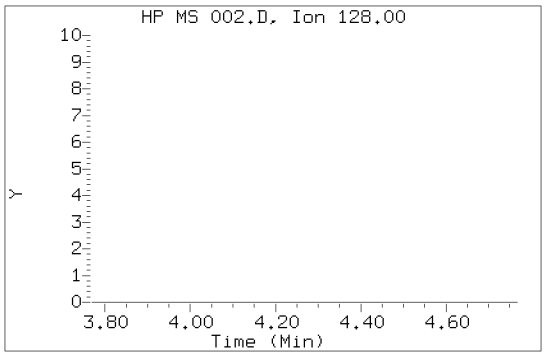
BEFORE

MASS
128
AREA
0
HEIGHT
0
25-Aug-2022
16:02
linh
pham



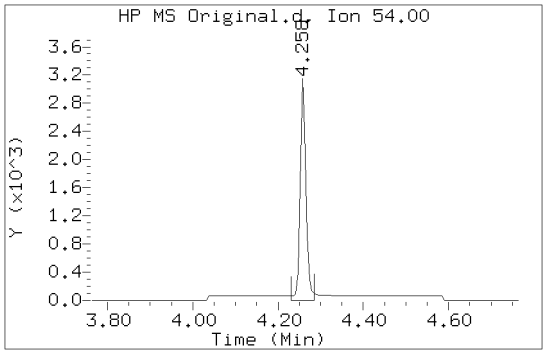
AFTER

MASS
128
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



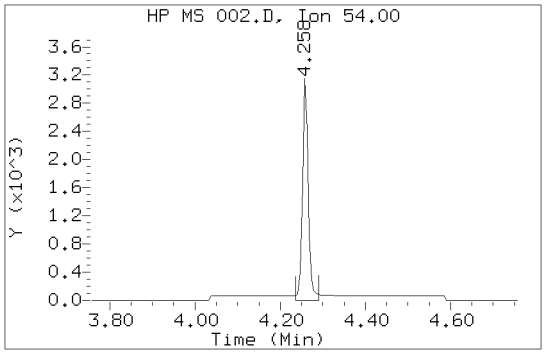
BEFORE

MASS
54
AREA
2990
HEIGHT
3148
25-Aug-2022
16:02
linh
pham



AFTER

MASS
54
AREA
2995
HEIGHT
3148
25-Aug-2022
16:08
linh
pham

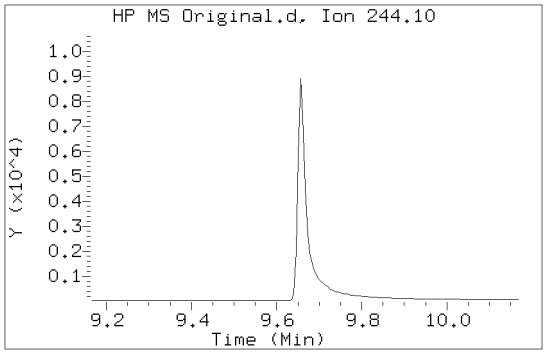


4-Terphenyl-d14 (1718-51-0)

Reason Code:

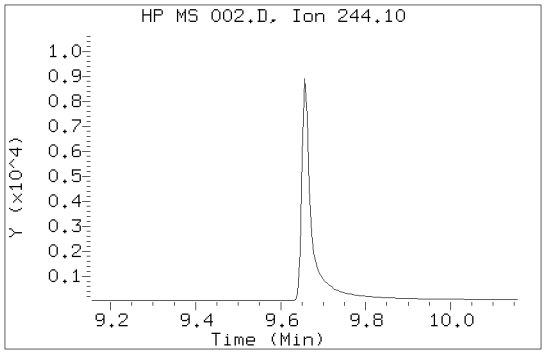
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
25-Aug-2022
16:02
linh
pham



AFTER

MASS
244.1
AREA
16413
HEIGHT
8885
25-Aug-2022
16:08
linh
pham

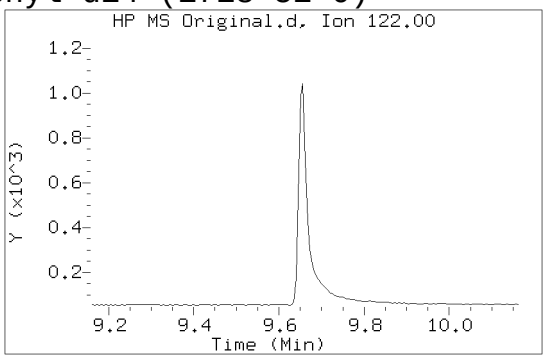


Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\002.D
Inj Date : 10-MAR-2022 10:25
InstruID : SV6.i
LabSampID : 1 4 DX-0.08

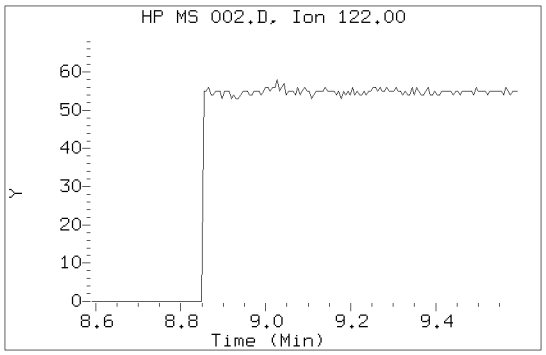
4-Terphenyl-d14 (1718-51-0)

Reason Code:

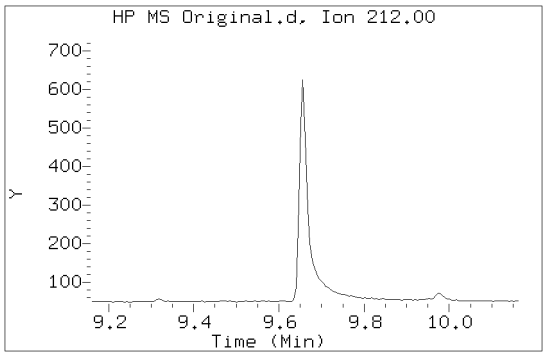
BEFORE
MASS
122
AREA
0
HEIGHT
0
25-Aug-2022
16:02
linh
pham



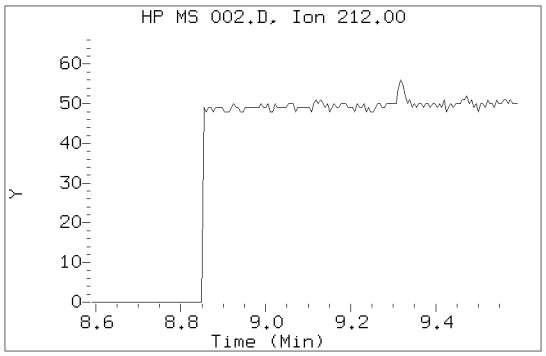
AFTER
MASS
122
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
212
AREA
0
HEIGHT
0
25-Aug-2022
16:02
linh
pham



AFTER
MASS
212
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\003.D Page 1
Report Date: 25-Aug-2022 16:08

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220310.b\003.D
Lab Smp Id: 1 4 DX-0.01 Client Smp ID: 1 4 DX-0.01
Inj Date : 10-MAR-2022 10:47 MS Autotune Date: 09-MAR-2022 11:12
Operator : LG Inst ID: SV6.i
Smp Info : 1 4 DX-0.01;1 4 DX-0.01
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220310.b\DXSIM.m
Meth Date : 25-Aug-2022 16:08 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 10:25 Cal File: 002.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.795	3.795	(1.000)	5529	0.10000	(a)
* 45 Naphthalene-d8	136	4.922	4.922	(1.000)	16961	0.10000	(M)
$ 33 Nitrobenzene-d5	82	4.262	4.262	(0.866)	608	0.01000	0.01075(QM)
* 86 Acenaphthene-d10	164	6.603	6.603	(1.000)	9707	0.10000	
$ 69 2-Fluorobiphenyl	172	5.943	5.943	(0.900)	1519	0.01000	0.01005(QM)
* 126 Phenanthrene-d10	188	8.058	8.058	(1.000)	16382	0.10000	
* 182 Chrysene-d12	240	10.963	10.963	(1.000)	6576	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.661	9.661	(0.881)	1253	0.01000	0.01013(M)
* 198 Perylene-d12	264	13.090	13.090	(1.000)	3752	0.10000	
1 1,4-Dioxane	58	1.994	1.994	(0.525)	21	0.01000	0.009252(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.

01141405

Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\003.D

Date : 10-MAR-2022 10:47

Client ID: 1 4 DX-0.01

Instrument: SV6.i

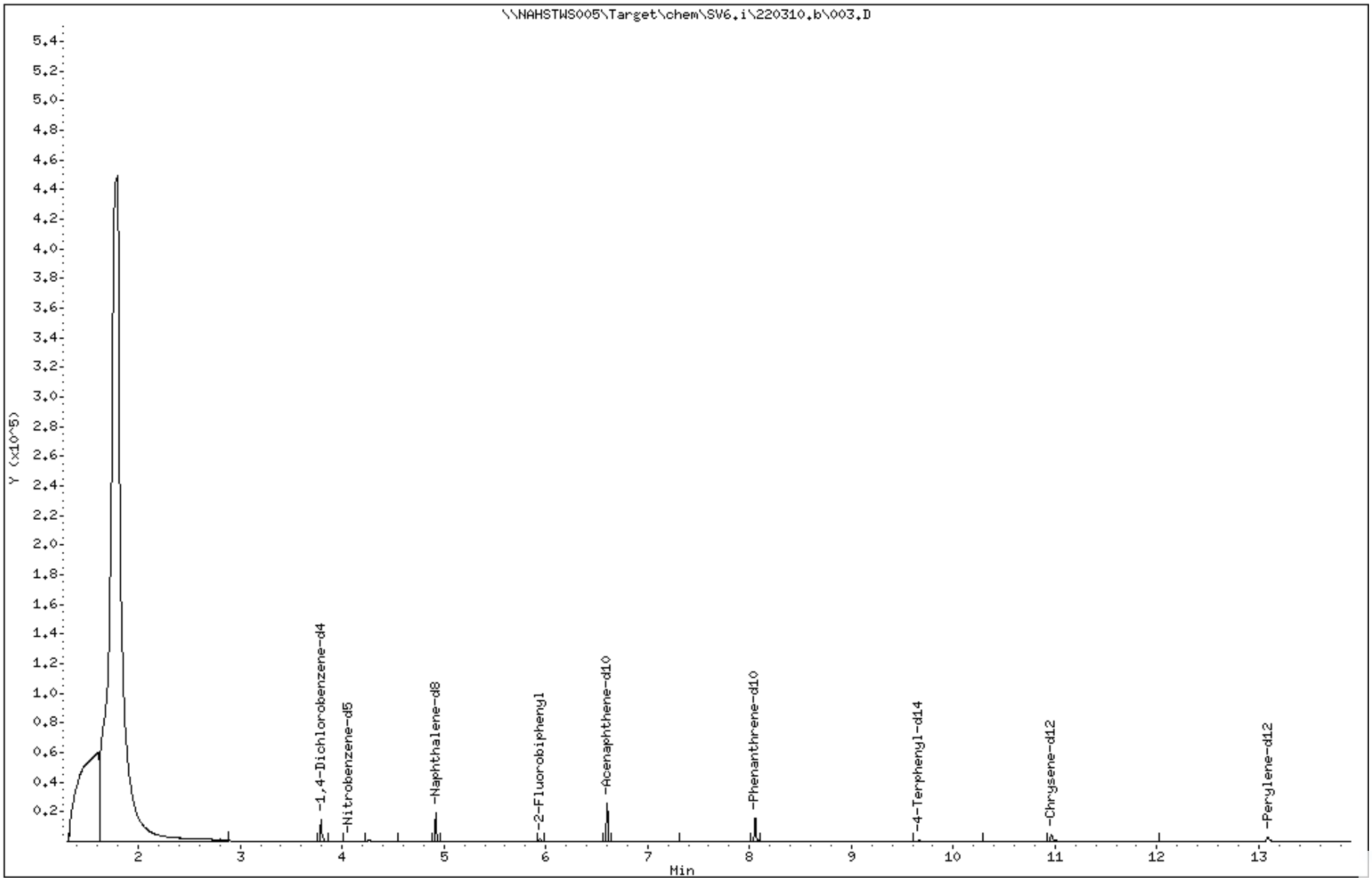
Sample Info: 1 4 DX-0.01;1 4 DX-0.01

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



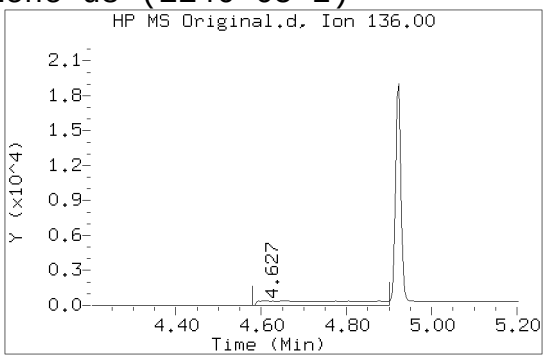
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\003.D
Inj Date : 10-MAR-2022 10:47
InstruID : SV6.i
LabSampID : 1 4 DX-0.01

Naphthalene-d8 (1146-65-2)

Reason Code:

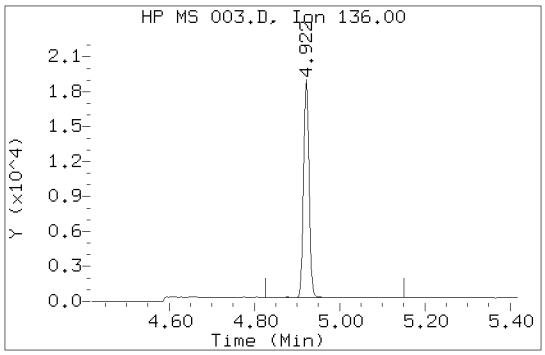
BEFORE

MASS
136
AREA
6591
HEIGHT
377
25-Aug-2022
16:04
linh
pham



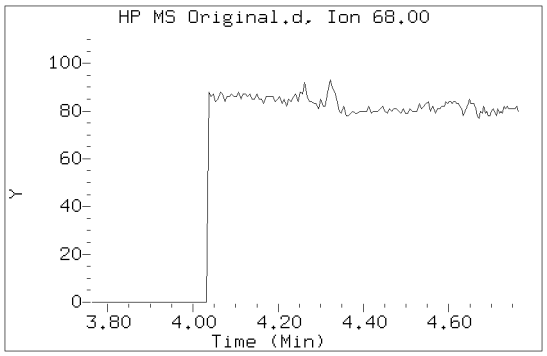
AFTER

MASS
136
AREA
16961
HEIGHT
18707
25-Aug-2022
16:08
linh
pham



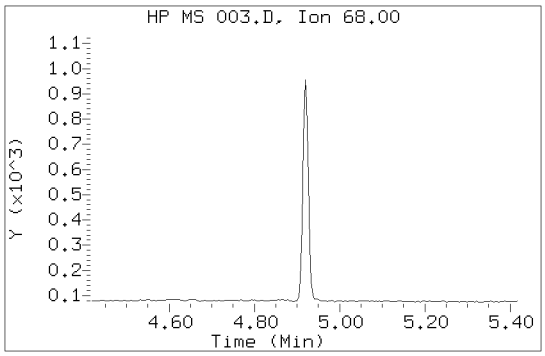
BEFORE

MASS
68
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
68
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham

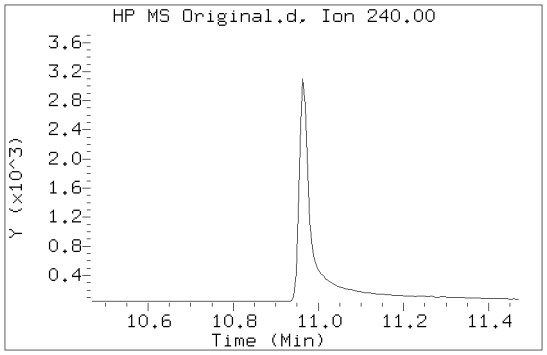


Chrysene-d12 (1719-03-5)

Reason Code:

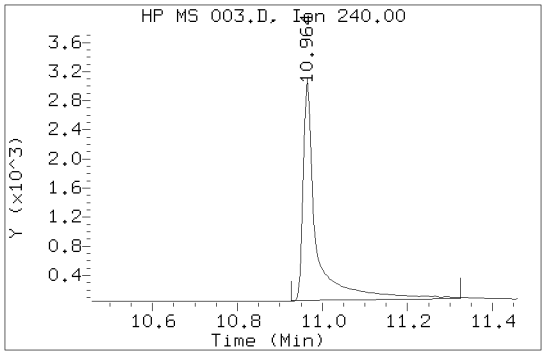
BEFORE

MASS
240
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



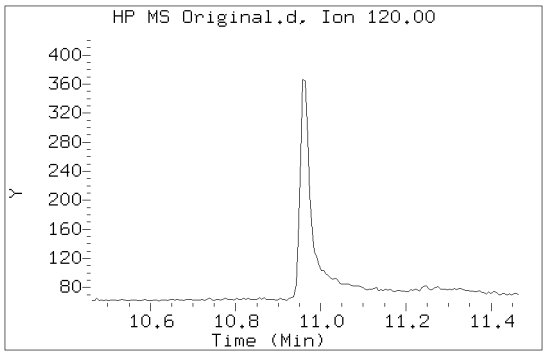
AFTER

MASS
240
AREA
6576
HEIGHT
3041
25-Aug-2022
16:08
linh
pham



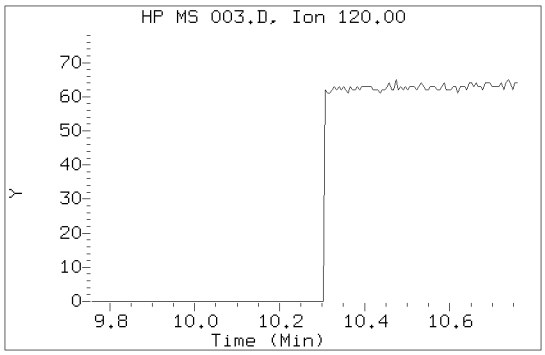
BEFORE

MASS
120
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
120
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



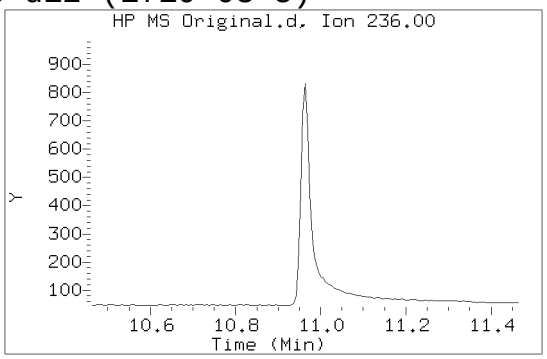
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\003.D
Inj Date : 10-MAR-2022 10:47
InstruID : SV6.i
LabSampID : 1 4 DX-0.01

Chrysene-d12 (1719-03-5)

Reason Code:

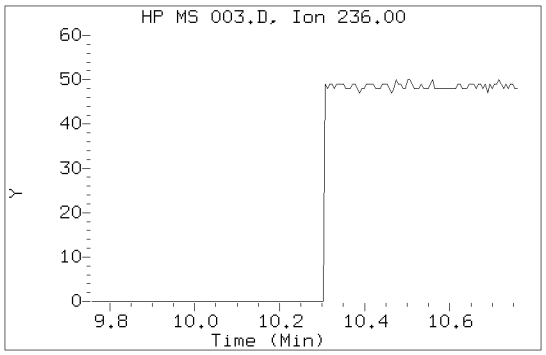
BEFORE

MASS
236
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
236
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham

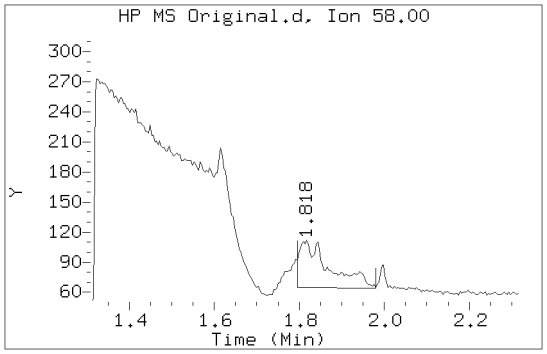


1,4-Dioxane ()

Reason Code:

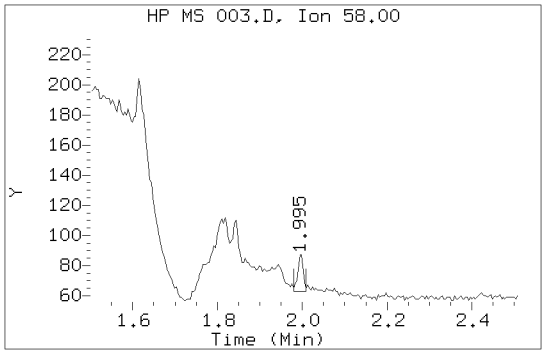
BEFORE

MASS
58
AREA
231
HEIGHT
47
25-Aug-2022
16:04
linh
pham



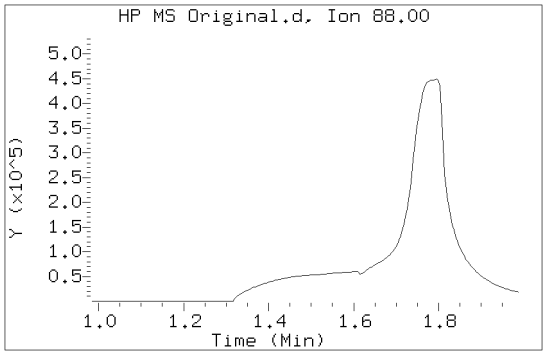
AFTER

MASS
58
AREA
21
HEIGHT
24
25-Aug-2022
16:08
linh
pham



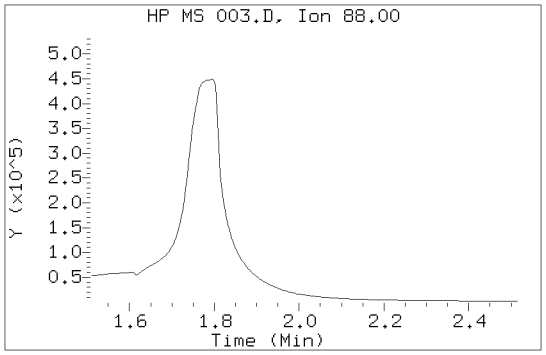
BEFORE

MASS
88
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
88
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham

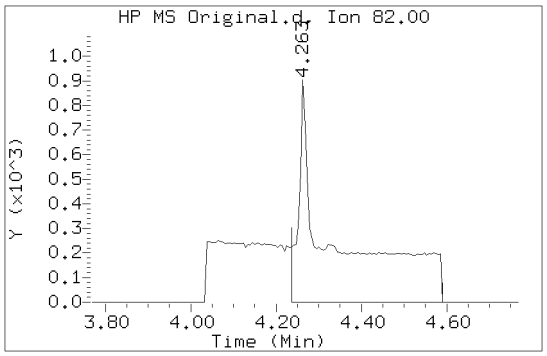


Nitrobenzene-d5 (4165-60-0)

Reason Code:

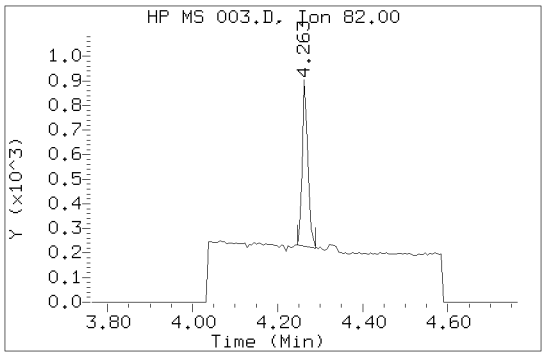
BEFORE

MASS
82
AREA
4980
HEIGHT
904
25-Aug-2022
16:04
linh
pham



AFTER

MASS
82
AREA
608
HEIGHT
676
25-Aug-2022
16:08
linh
pham



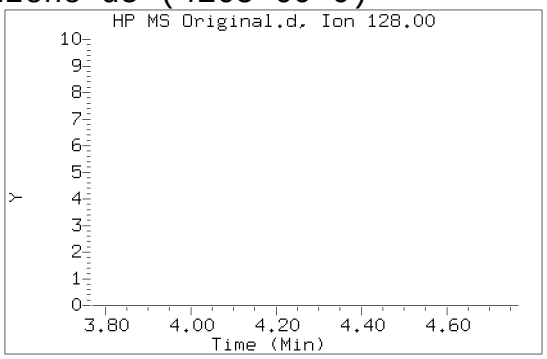
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\003.D
Inj Date : 10-MAR-2022 10:47
InstruID : SV6.i
LabSampID : 1 4 DX-0.01

Nitrobenzene-d5 (4165-60-0)

Reason Code:

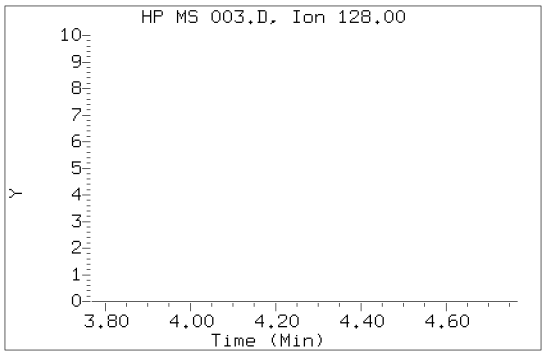
BEFORE

MASS
128
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



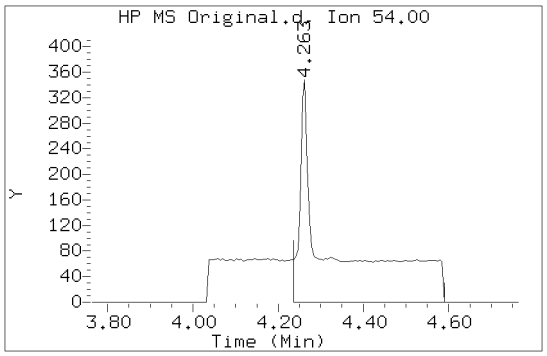
AFTER

MASS
128
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



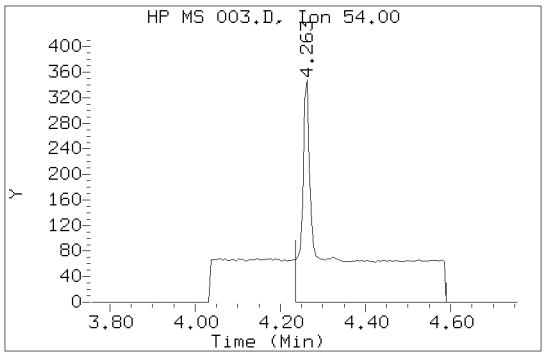
BEFORE

MASS
54
AREA
1660
HEIGHT
348
25-Aug-2022
16:04
linh
pham



AFTER

MASS
54
AREA
1660
HEIGHT
348
25-Aug-2022
16:08
linh
pham

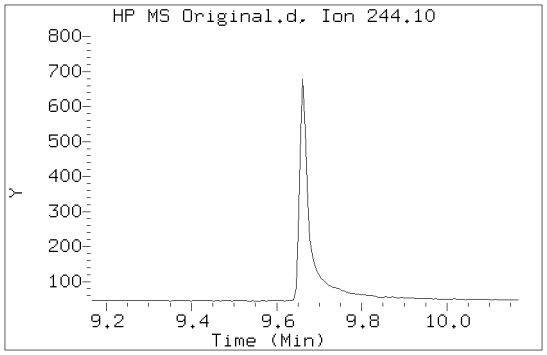


4-Terphenyl-d14 (1718-51-0)

Reason Code:

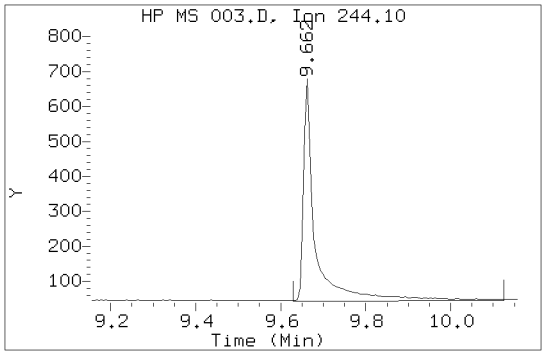
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



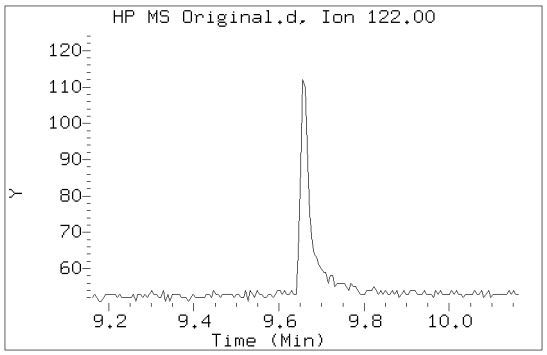
AFTER

MASS
244.1
AREA
1253
HEIGHT
635
25-Aug-2022
16:08
linh
pham



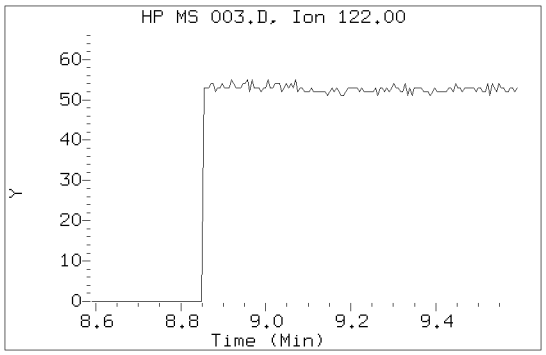
BEFORE

MASS
122
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
122
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham

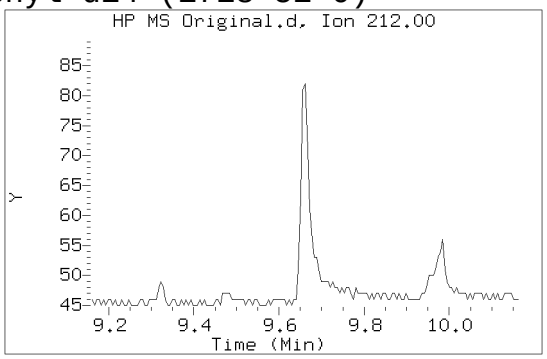


Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\003.D
Inj Date : 10-MAR-2022 10:47
InstruID : SV6.i
LabSampID : 1 4 DX-0.01

4-Terphenyl-d14 (1718-51-0)

BEFORE

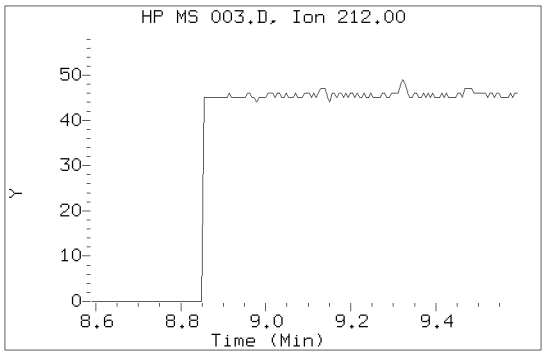
MASS
212
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
212
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham

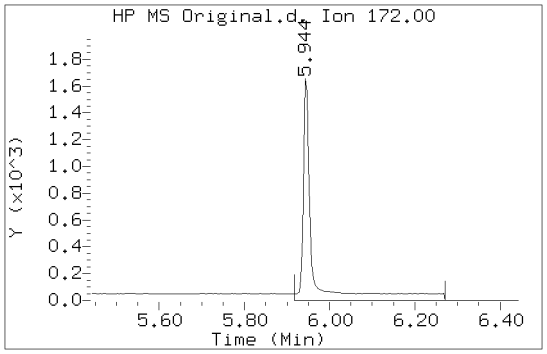
Reason Code:



2-Fluorobiphenyl (321-60-8)

BEFORE

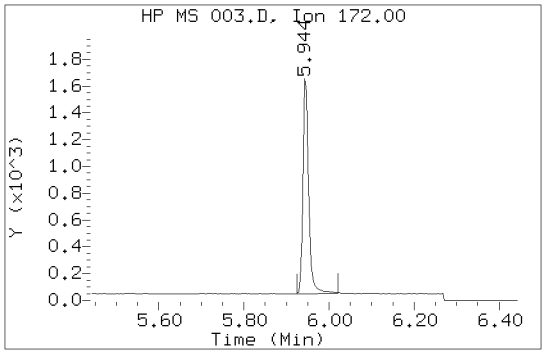
MASS
172
AREA
2590
HEIGHT
1655
25-Aug-2022
16:04
linh
pham



AFTER

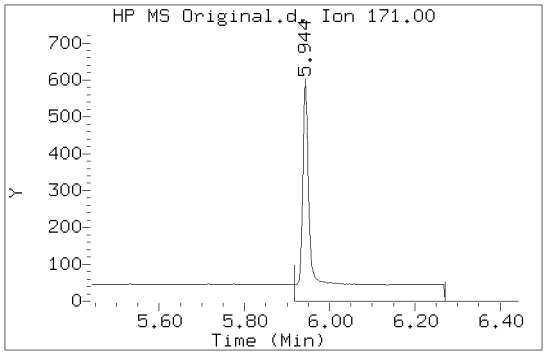
MASS
172
AREA
1519
HEIGHT
1606
25-Aug-2022
16:08
linh
pham

Reason Code:



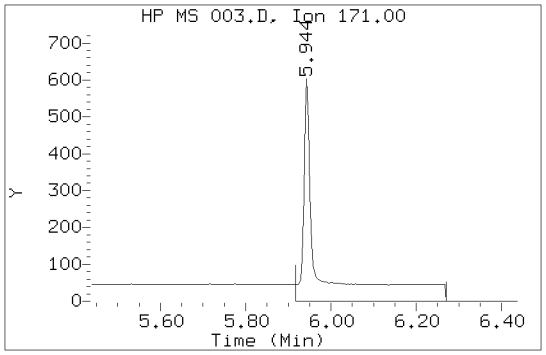
BEFORE

MASS
171
AREA
1483
HEIGHT
603
25-Aug-2022
16:04
linh
pham



AFTER

MASS
171
AREA
1483
HEIGHT
603
25-Aug-2022
16:08
linh
pham



Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\004.D Page 1
Report Date: 25-Aug-2022 16:08

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220310.b\004.D
Lab Smp Id: 1 4 DX-0.03 Client Smp ID: 1 4 DX-0.03
Inj Date : 10-MAR-2022 11:05 MS Autotune Date: 09-MAR-2022 11:12
Operator : LG Inst ID: SV6.i
Smp Info : 1 4 DX-0.03;1 4 DX-0.03
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220310.b\DXSIM.m
Meth Date : 25-Aug-2022 16:08 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 10:47 Cal File: 003.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.790	3.790	(1.000)	4850	0.10000	(aM)
* 45 Naphthalene-d8	136	4.918	4.918	(1.000)	18345	0.10000	(M)
$ 33 Nitrobenzene-d5	82	4.262	4.262	(0.867)	1854	0.03000	0.03032(QM)
* 86 Acenaphthene-d10	164	6.603	6.603	(1.000)	9938	0.10000	
$ 69 2-Fluorobiphenyl	172	5.943	5.943	(0.900)	4488	0.03000	0.02901(Q)
* 126 Phenanthrene-d10	188	8.053	8.053	(1.000)	16949	0.10000	
* 182 Chrysene-d12	240	10.963	10.963	(1.000)	7290	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.656	9.656	(0.881)	4004	0.03000	0.02921(M)
* 198 Perylene-d12	264	13.090	13.090	(1.000)	4319	0.10000	
1 1,4-Dioxane	58	1.990	1.990	(0.525)	57	0.03000	0.02863(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.

01141411

Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\004.D

Date : 10-MAR-2022 11:05

Client ID: 1 4 DX-0.03

Instrument: SV6.i

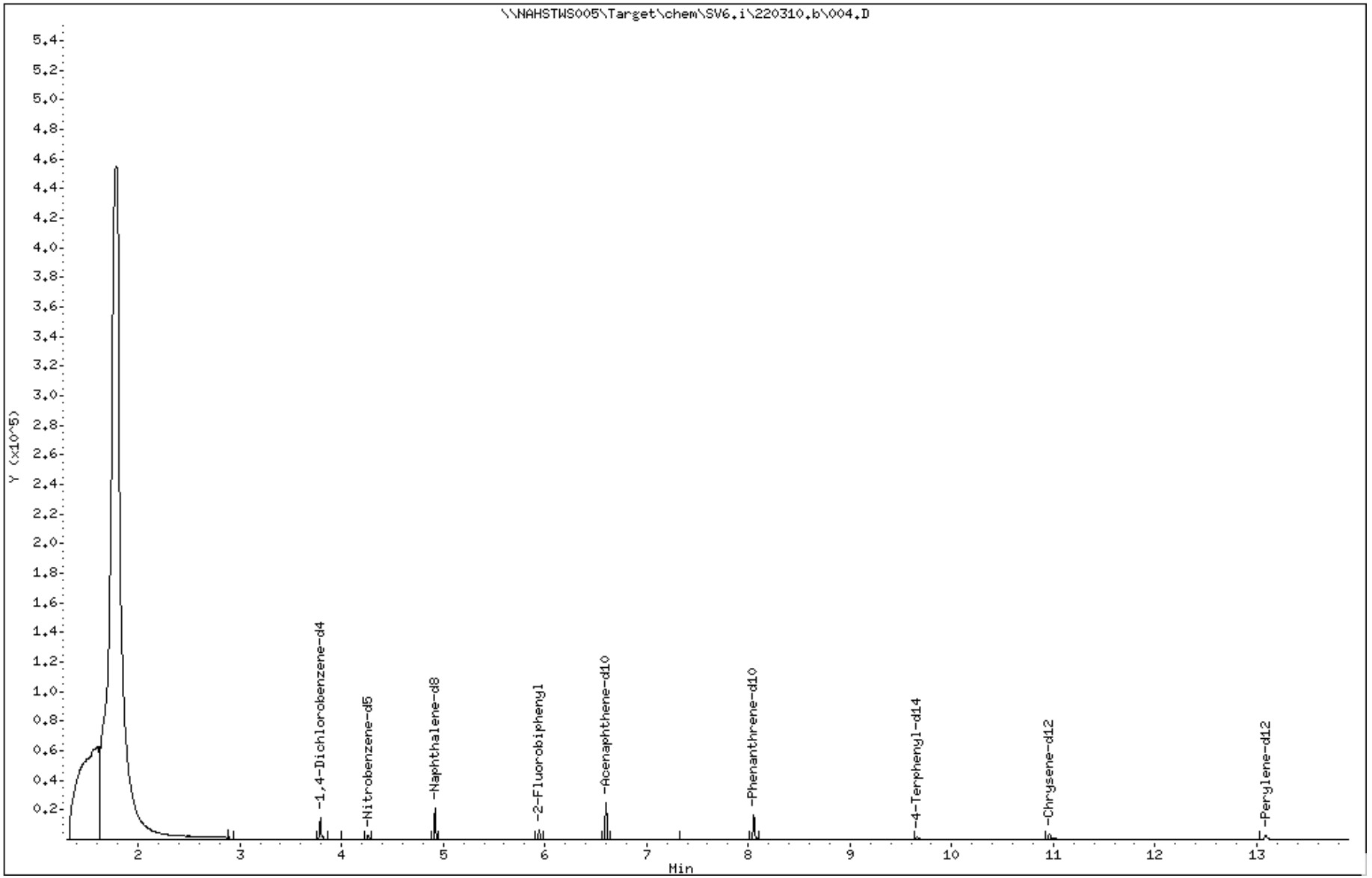
Sample Info: 1 4 DX-0.03;1 4 DX-0.03

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



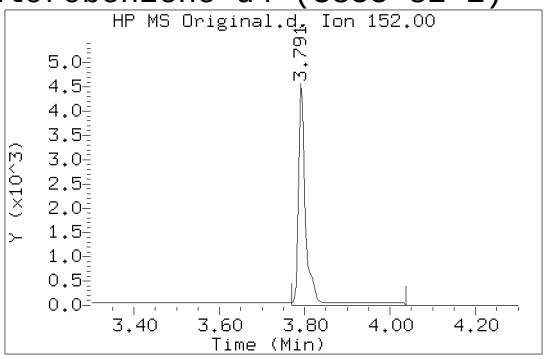
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\004.D
Inj Date : 10-MAR-2022 11:05
InstruID : SV6.i
LabSampID : 1 4 DX-0.03

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

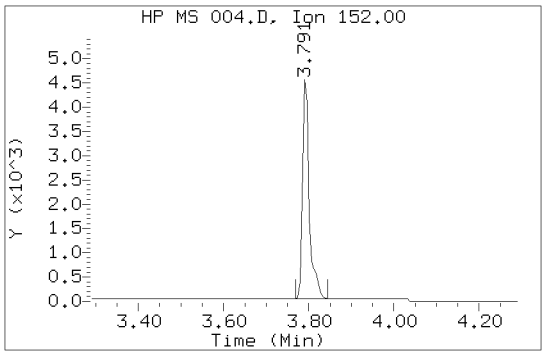
BEFORE

MASS
152
AREA
5742
HEIGHT
4567
25-Aug-2022
16:04
linh
pham



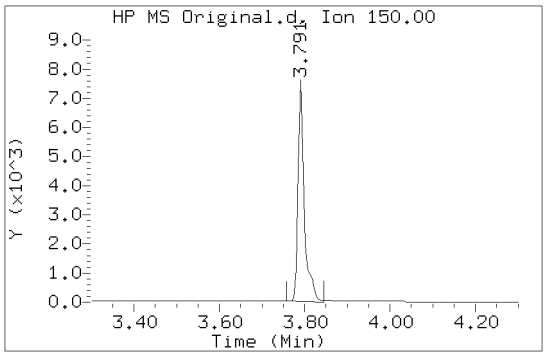
AFTER

MASS
152
AREA
4850
HEIGHT
4511
25-Aug-2022
16:08
linh
pham



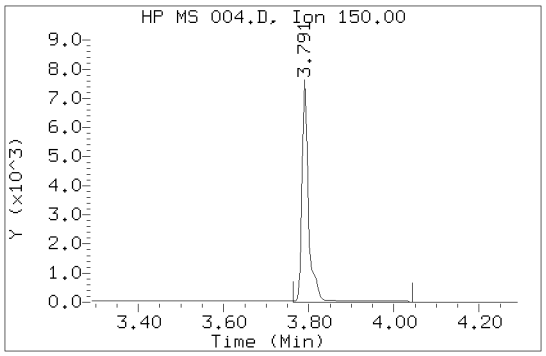
BEFORE

MASS
150
AREA
7811
HEIGHT
7601
25-Aug-2022
16:04
linh
pham



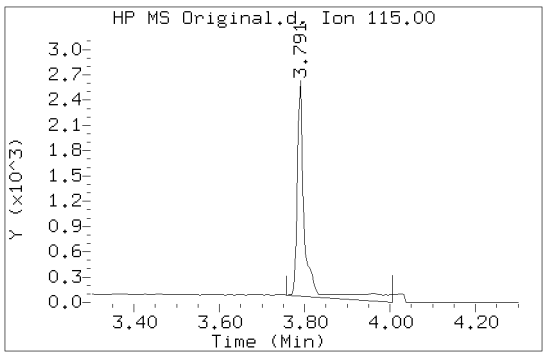
AFTER

MASS
150
AREA
8525
HEIGHT
7633
25-Aug-2022
16:08
linh
pham



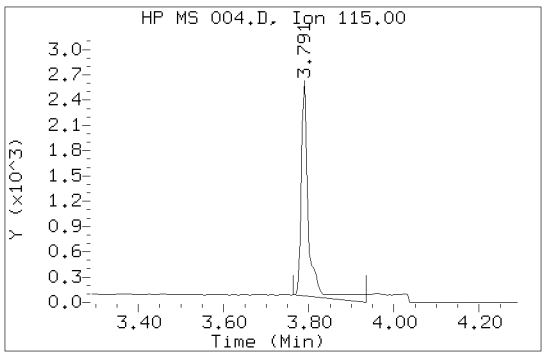
BEFORE

MASS
115
AREA
3339
HEIGHT
2555
25-Aug-2022
16:04
linh
pham



AFTER

MASS
115
AREA
3101
HEIGHT
2555
25-Aug-2022
16:08
linh
pham

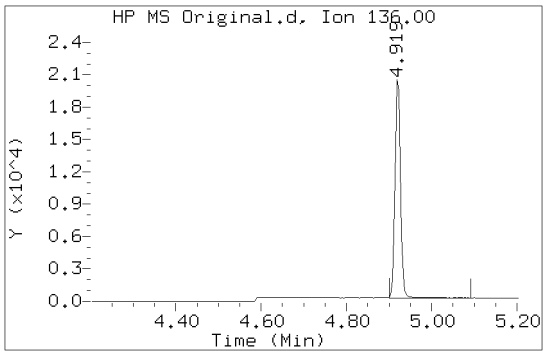


Naphthalene-d8 (1146-65-2)

Reason Code:

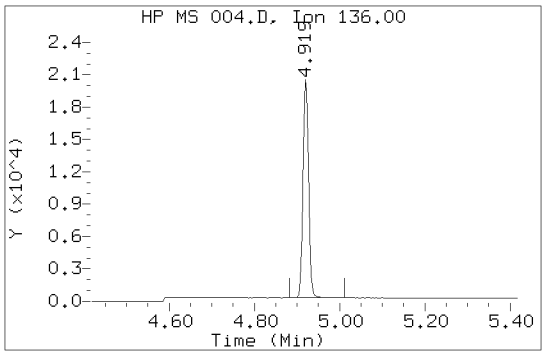
BEFORE

MASS
136
AREA
18381
HEIGHT
20218
25-Aug-2022
16:04
linh
pham



AFTER

MASS
136
AREA
18345
HEIGHT
20214
25-Aug-2022
16:08
linh
pham



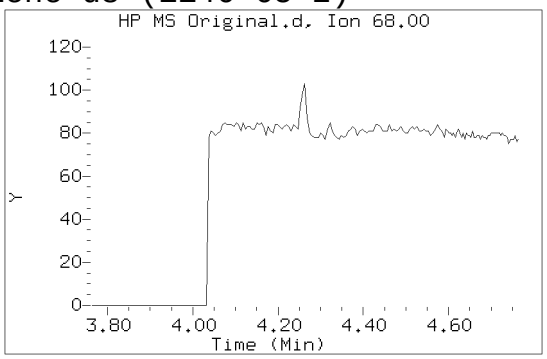
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\004.D
Inj Date : 10-MAR-2022 11:05
InstruID : SV6.i
LabSampID : 1 4 DX-0.03

Naphthalene-d8 (1146-65-2)

Reason Code:

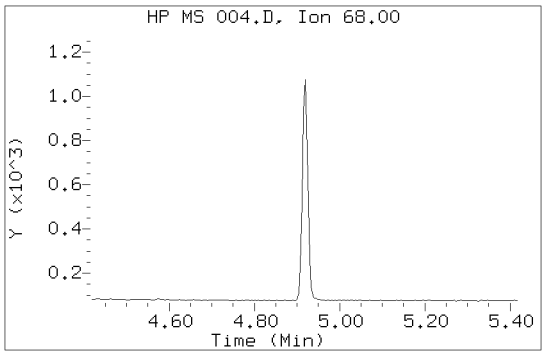
BEFORE

MASS
68
AREA
905
HEIGHT
999
25-Aug-2022
16:04
linh
pham



AFTER

MASS
68
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham

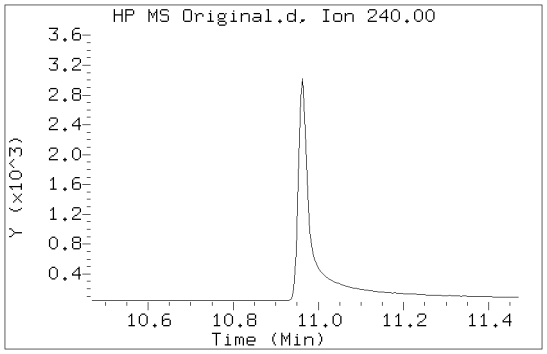


Chrysene-d12 (1719-03-5)

Reason Code:

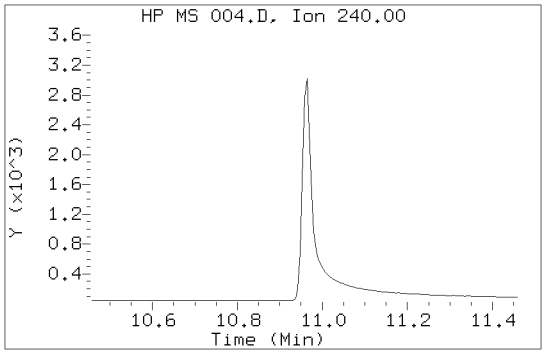
BEFORE

MASS
240
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



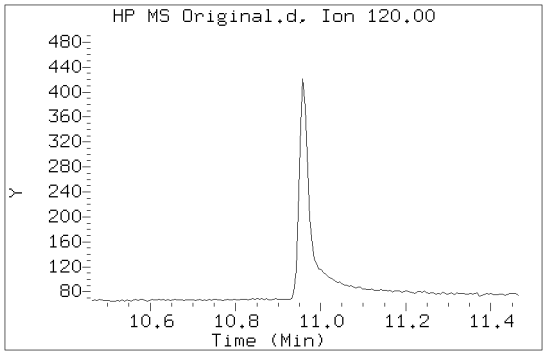
AFTER

MASS
240
AREA
7290
HEIGHT
2973
25-Aug-2022
16:08
linh
pham



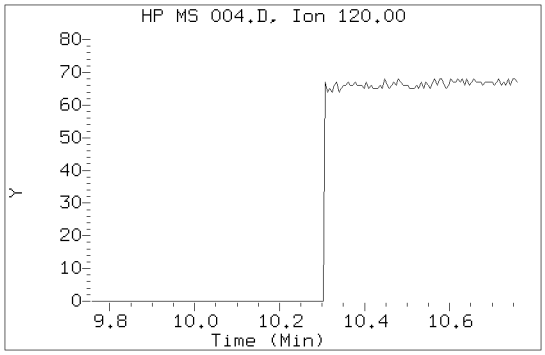
BEFORE

MASS
120
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



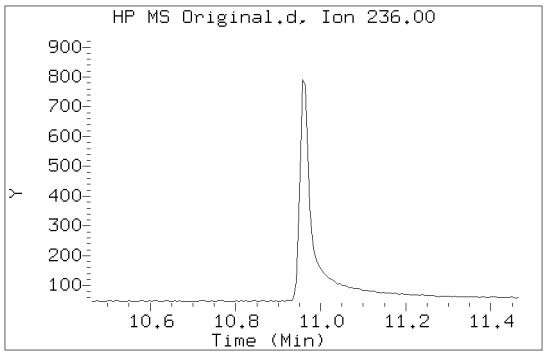
AFTER

MASS
120
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



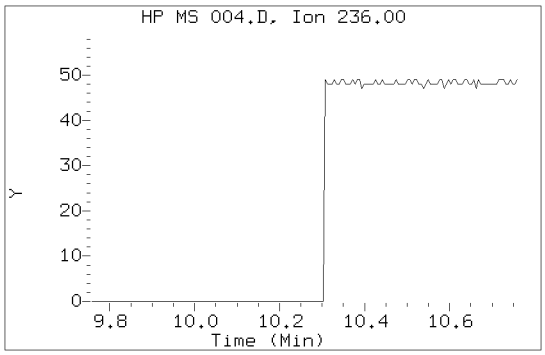
BEFORE

MASS
236
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
236
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



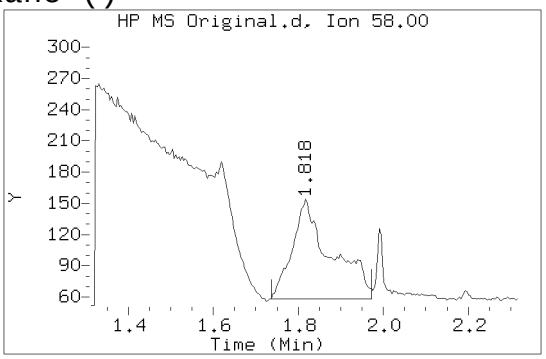
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\004.D
Inj Date : 10-MAR-2022 11:05
InstruID : SV6.i
LabSampID : 1 4 DX-0.03

1,4-Dioxane ()

Reason Code:

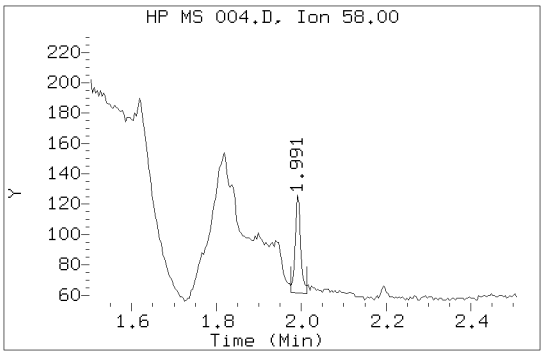
BEFORE

MASS
58
AREA
606
HEIGHT
96
25-Aug-2022
16:04
linh
pham



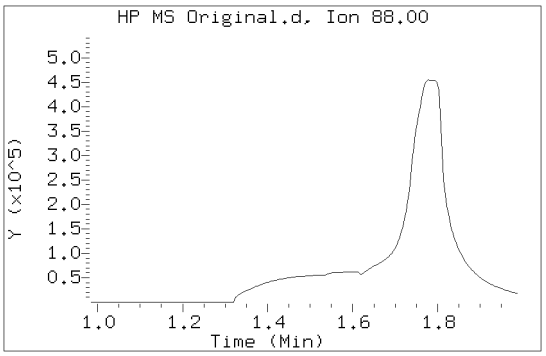
AFTER

MASS
58
AREA
57
HEIGHT
64
25-Aug-2022
16:08
linh
pham



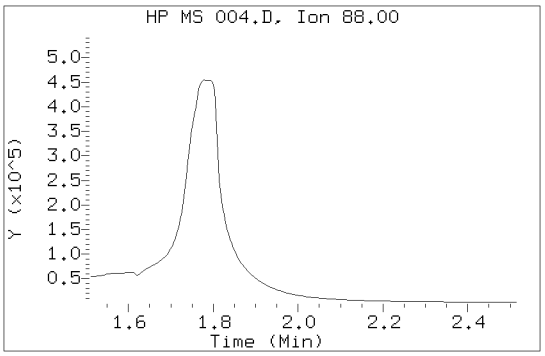
BEFORE

MASS
88
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
88
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham

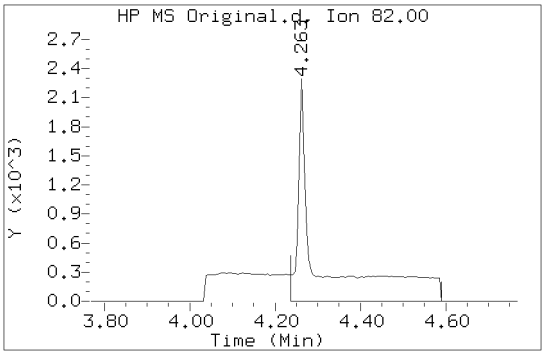


Nitrobenzene-d5 (4165-60-0)

Reason Code:

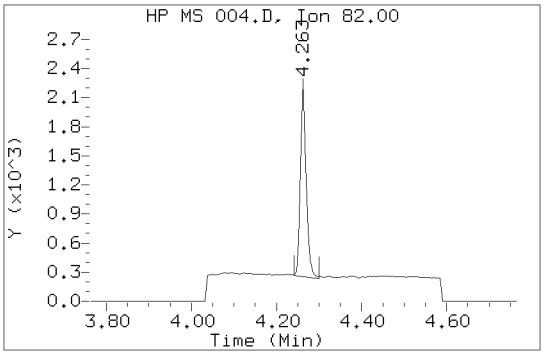
BEFORE

MASS
82
AREA
7178
HEIGHT
2293
25-Aug-2022
16:04
linh
pham



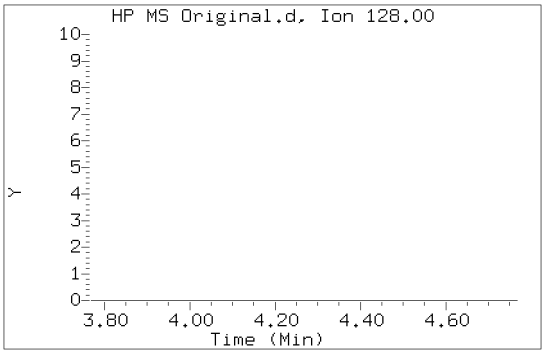
AFTER

MASS
82
AREA
1854
HEIGHT
2038
25-Aug-2022
16:08
linh
pham



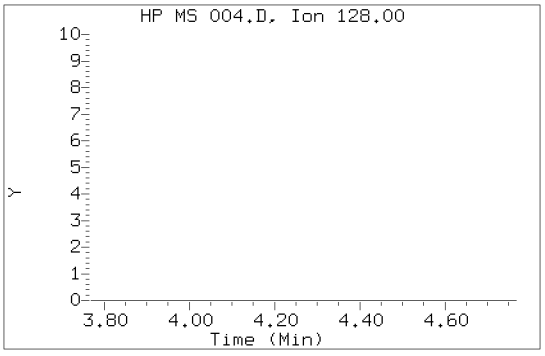
BEFORE

MASS
128
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
128
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham

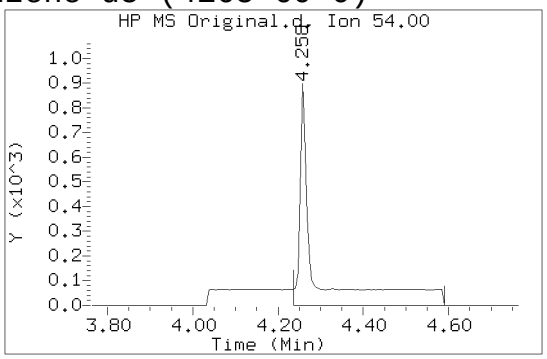


Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\004.D
Inj Date : 10-MAR-2022 11:05
InstruID : SV6.i
LabSampID : 1 4 DX-0.03

Nitrobenzene-d5 (4165-60-0)

BEFORE

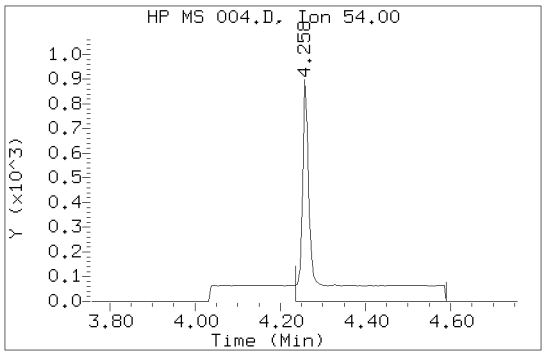
MASS
54
AREA
2147
HEIGHT
898
25-Aug-2022
16:04
linh
pham



AFTER

MASS
54
AREA
2147
HEIGHT
898
25-Aug-2022
16:08
linh
pham

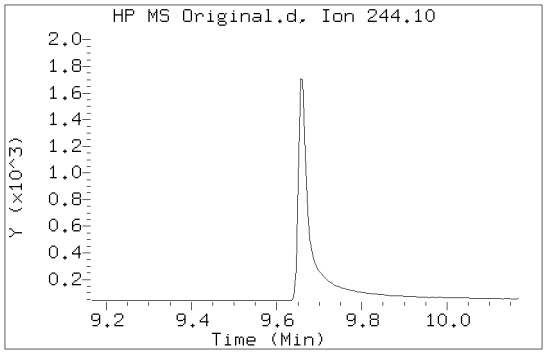
Reason Code:



4-Terphenyl-d14 (1718-51-0)

BEFORE

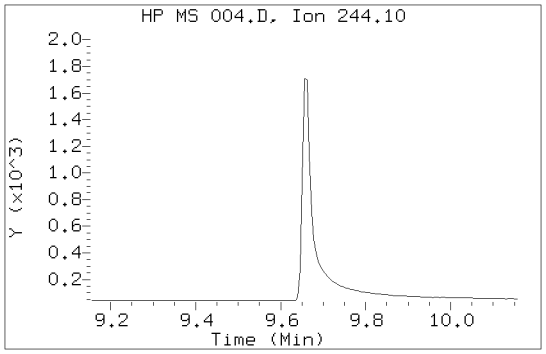
MASS
244.1
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

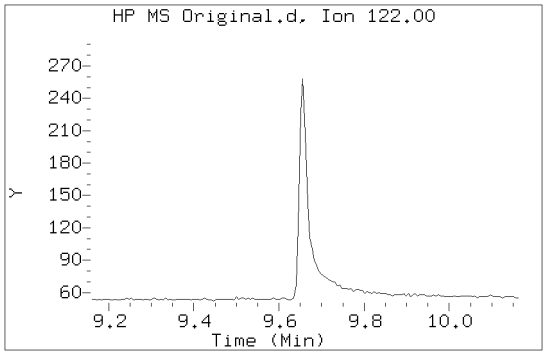
MASS
244.1
AREA
4004
HEIGHT
1671
25-Aug-2022
16:08
linh
pham

Reason Code:



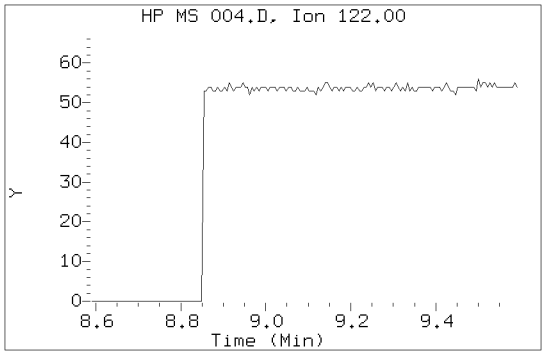
BEFORE

MASS
122
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



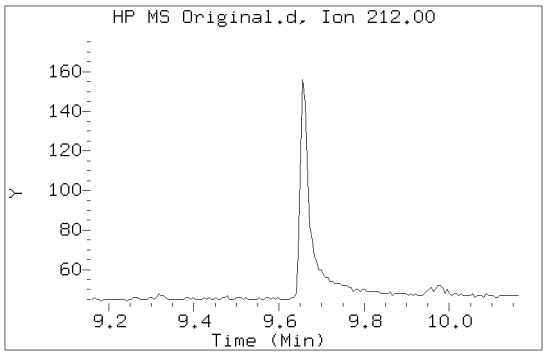
AFTER

MASS
122
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



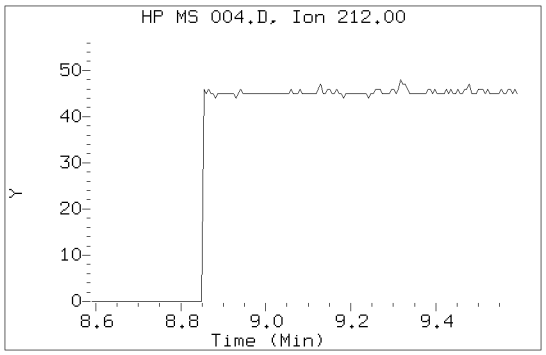
BEFORE

MASS
212
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
212
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\005.D Page 1
Report Date: 25-Aug-2022 16:08

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220310.b\005.D
Lab Smp Id: 1 4 DX-0.05 Client Smp ID: 1 4 DX-0.05
Inj Date : 10-MAR-2022 11:22 MS Autotune Date: 09-MAR-2022 11:12
Operator : LG Inst ID: SV6.i
Smp Info : 1 4 DX-0.05;1 4 DX-0.05
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220310.b\DXSIM.m
Meth Date : 25-Aug-2022 16:08 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 11:05 Cal File: 004.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.790	3.790	(1.000)	5274	0.10000	(aM)
* 45 Naphthalene-d8	136	4.918	4.918	(1.000)	20409	0.10000	
$ 33 Nitrobenzene-d5	82	4.262	4.262	(0.867)	3571	0.05000	0.05249(QM)
* 86 Acenaphthene-d10	164	6.603	6.603	(1.000)	9759	0.10000	
$ 69 2-Fluorobiphenyl	172	5.943	5.943	(0.900)	8686	0.05000	0.05718
* 126 Phenanthrene-d10	188	8.053	8.053	(1.000)	16554	0.10000	
* 182 Chrysene-d12	240	10.958	10.958	(1.000)	6789	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.656	9.656	(0.881)	6514	0.05000	0.05103(M)
* 198 Perylene-d12	264	13.085	13.085	(1.000)	4224	0.10000	
1 1,4-Dioxane	58	1.994	1.994	(0.526)	107	0.05000	0.04942(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.

01141417

Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\005.D

Date : 10-MAR-2022 11:22

Client ID: 1 4 DX-0.05

Instrument: SV6.i

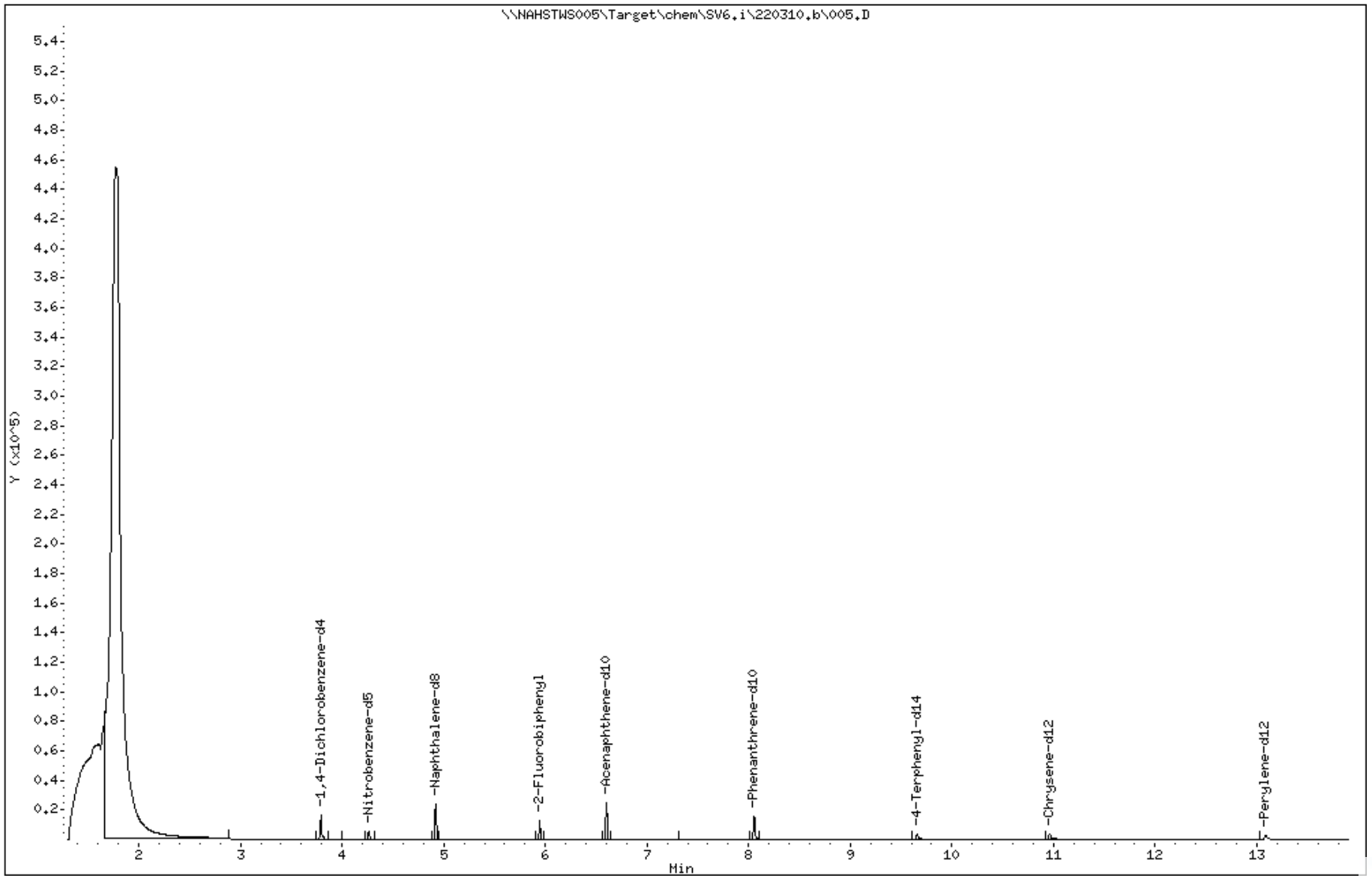
Sample Info: 1 4 DX-0.05;1 4 DX-0.05

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



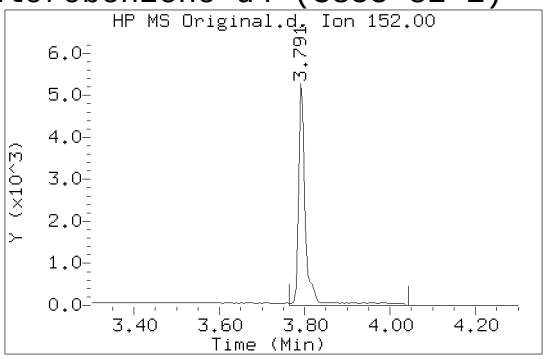
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\005.D
Inj Date : 10-MAR-2022 11:22
InstruID : SV6.i
LabSampID : 1 4 DX-0.05

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

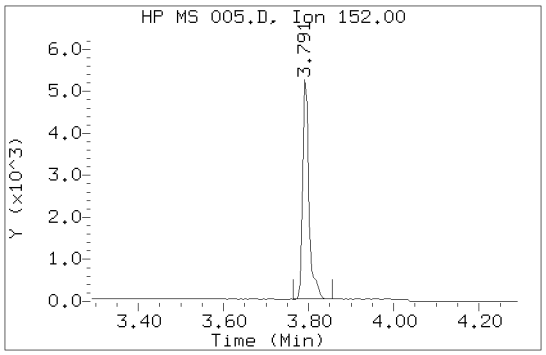
BEFORE

MASS
152
AREA
6163
HEIGHT
5277
25-Aug-2022
16:04
linh
pham



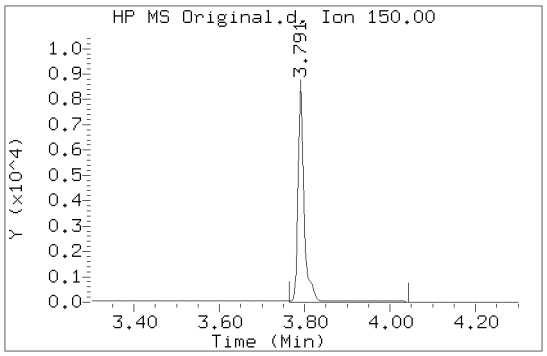
AFTER

MASS
152
AREA
5274
HEIGHT
5222
25-Aug-2022
16:08
linh
pham



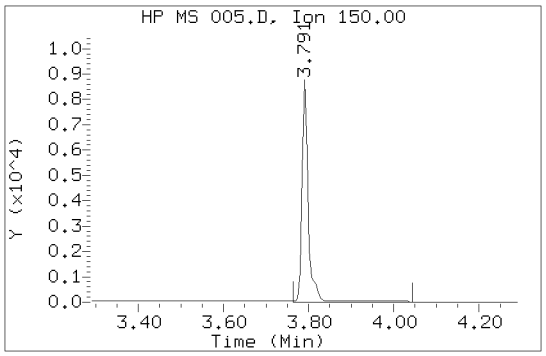
BEFORE

MASS
150
AREA
9110
HEIGHT
8769
25-Aug-2022
16:04
linh
pham



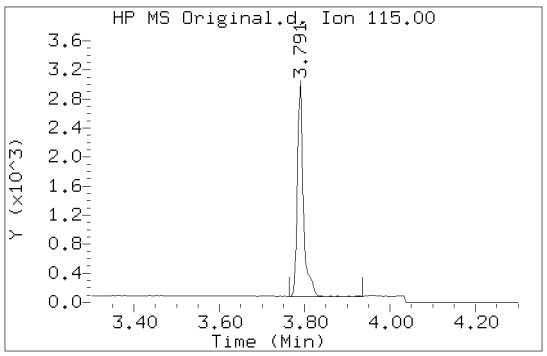
AFTER

MASS
150
AREA
9110
HEIGHT
8769
25-Aug-2022
16:08
linh
pham



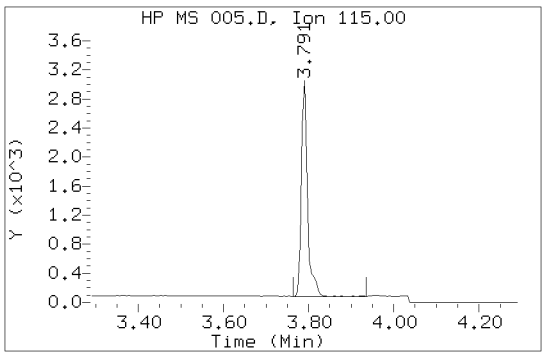
BEFORE

MASS
115
AREA
2922
HEIGHT
2969
25-Aug-2022
16:04
linh
pham



AFTER

MASS
115
AREA
2922
HEIGHT
2969
25-Aug-2022
16:08
linh
pham

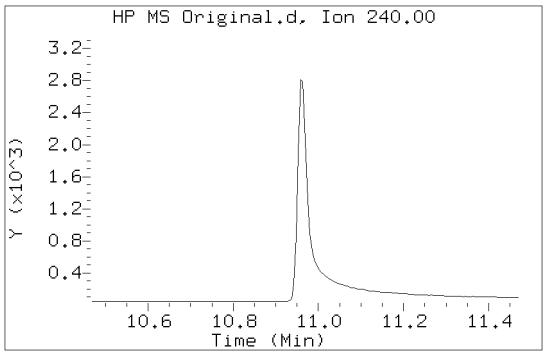


Chrysene-d12 (1719-03-5)

Reason Code:

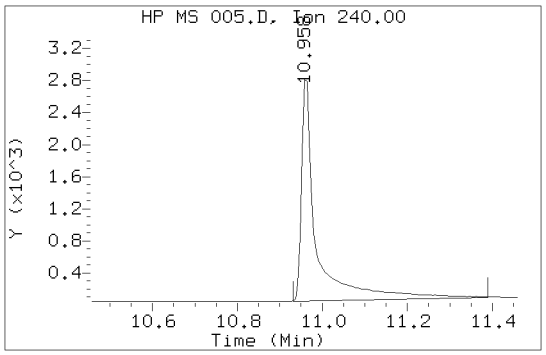
BEFORE

MASS
240
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
240
AREA
6789
HEIGHT
2758
25-Aug-2022
16:08
linh
pham

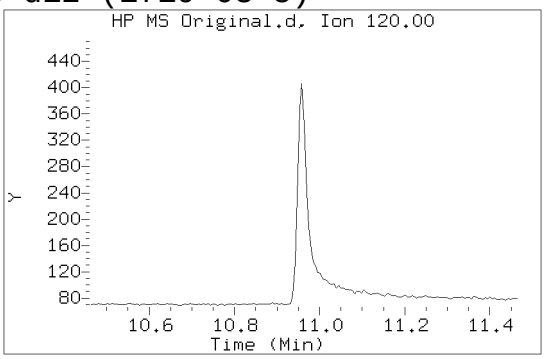


Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\005.D
Inj Date : 10-MAR-2022 11:22
InstruID : SV6.i
LabSampID : 1 4 DX-0.05

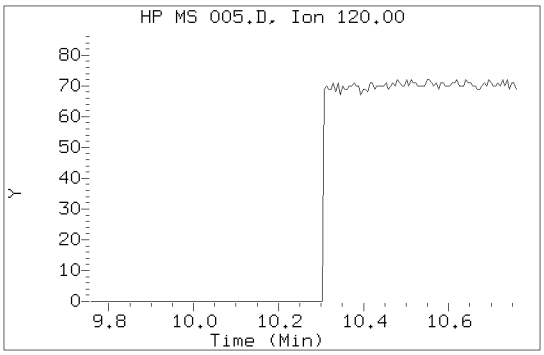
Chrysene-d12 (1719-03-5)

Reason Code:

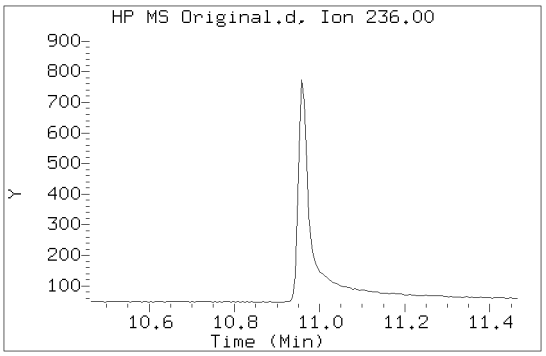
BEFORE
MASS
120
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



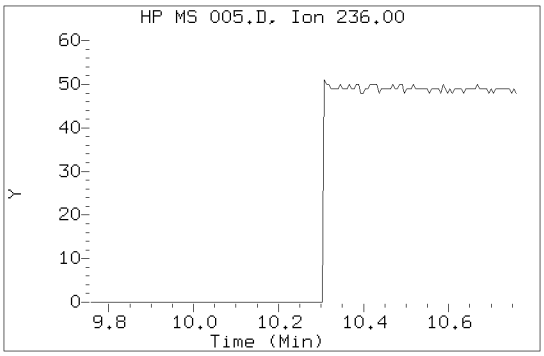
AFTER
MASS
120
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
236
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



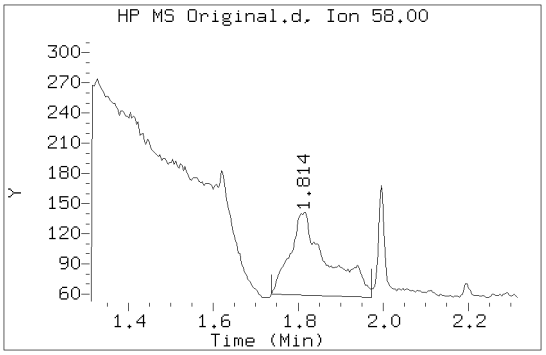
AFTER
MASS
236
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



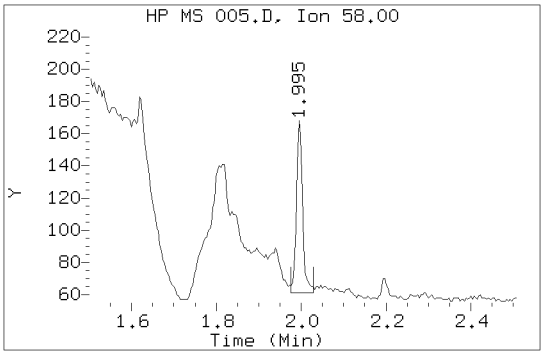
1,4-Dioxane ()

Reason Code:

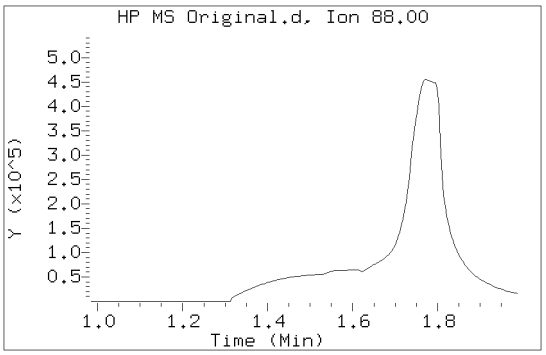
BEFORE
MASS
58
AREA
509
HEIGHT
81
25-Aug-2022
16:04
linh
pham



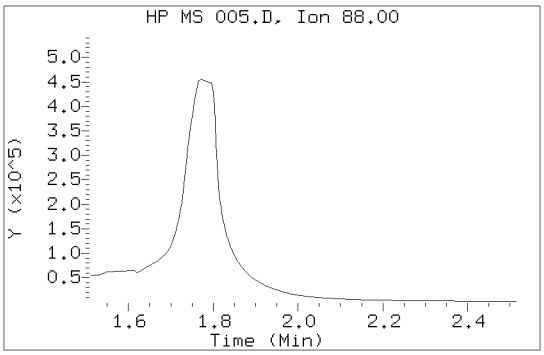
AFTER
MASS
58
AREA
107
HEIGHT
107
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
88
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER
MASS
88
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



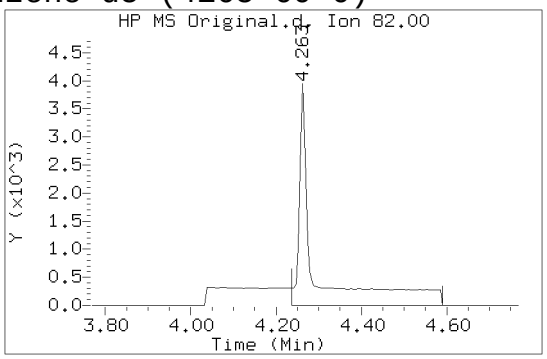
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\005.D
Inj Date : 10-MAR-2022 11:22
InstruID : SV6.i
LabSampID : 1 4 DX-0.05

Nitrobenzene-d5 (4165-60-0)

Reason Code:

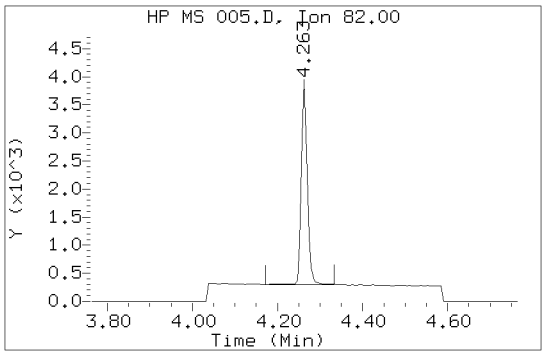
BEFORE

MASS
82
AREA
9627
HEIGHT
3947
25-Aug-2022
16:04
linh
pham



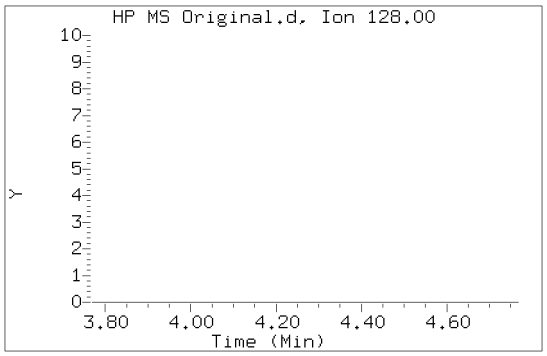
AFTER

MASS
82
AREA
3571
HEIGHT
3653
25-Aug-2022
16:08
linh
pham



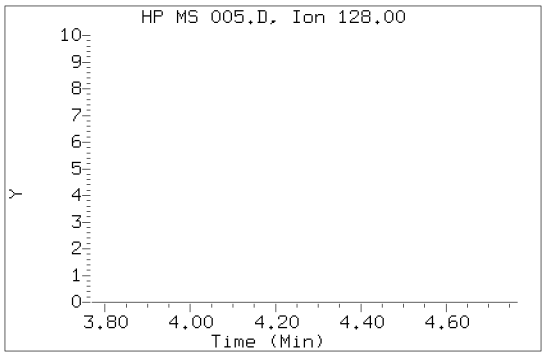
BEFORE

MASS
128
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



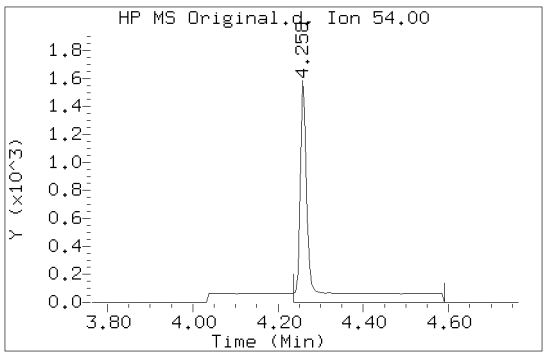
AFTER

MASS
128
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



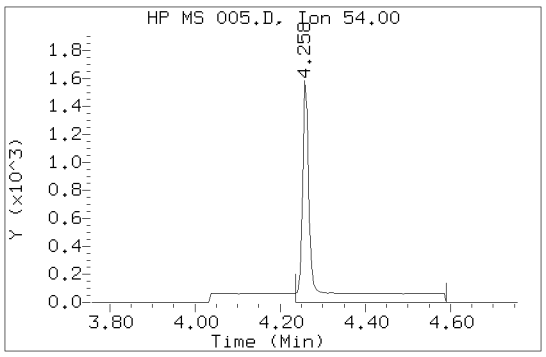
BEFORE

MASS
54
AREA
2838
HEIGHT
1584
25-Aug-2022
16:04
linh
pham



AFTER

MASS
54
AREA
2838
HEIGHT
1584
25-Aug-2022
16:08
linh
pham

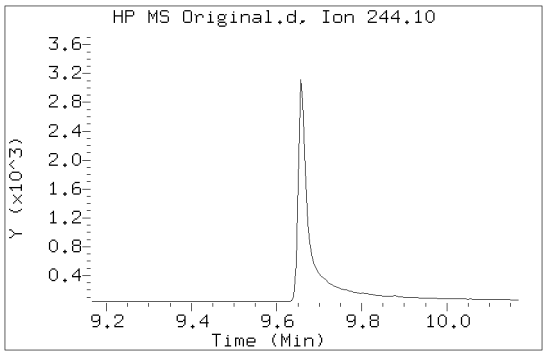


4-Terphenyl-d14 (1718-51-0)

Reason Code:

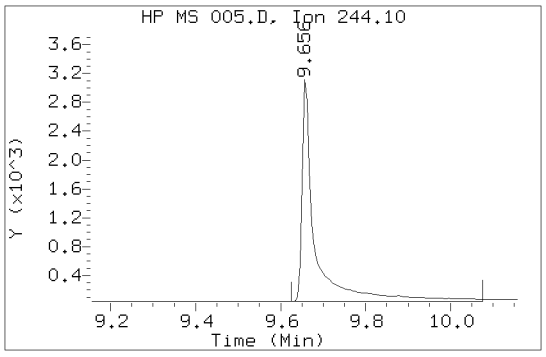
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
244.1
AREA
6514
HEIGHT
3070
25-Aug-2022
16:08
linh
pham

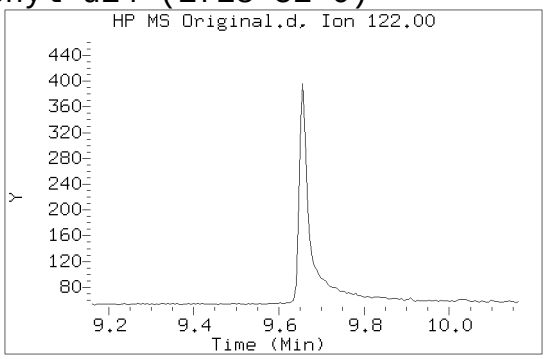


Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\005.D
Inj Date : 10-MAR-2022 11:22
InstruID : SV6.i
LabSampID : 1 4 DX-0.05

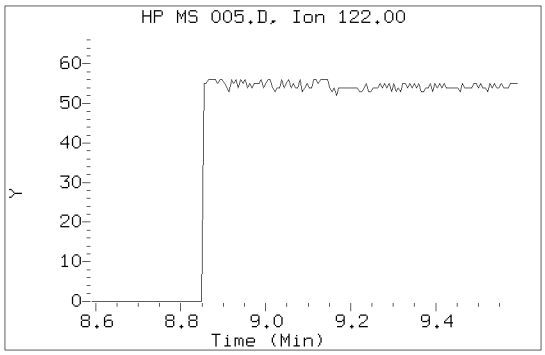
4-Terphenyl-d14 (1718-51-0)

Reason Code:

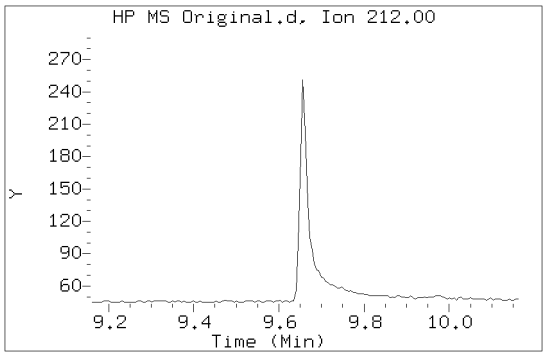
BEFORE
MASS
122
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



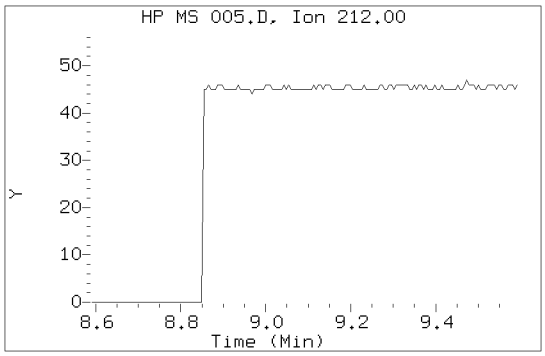
AFTER
MASS
122
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
212
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER
MASS
212
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\006.D Page 1
Report Date: 25-Aug-2022 16:08

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220310.b\006.D
Lab Smp Id: 1 4 DX-0.1 Client Smp ID: 1 4 DX-0.1
Inj Date : 10-MAR-2022 11:40 MS Autotune Date: 09-MAR-2022 11:12
Operator : LG Inst ID: SV6.i
Smp Info : 1 4 DX-0.1;1 4 DX-0.1
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220310.b\DXSIM.m
Meth Date : 25-Aug-2022 16:08 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 11:22 Cal File: 005.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.790	3.790	(1.000)	6146	0.10000	(aM)
* 45 Naphthalene-d8	136	4.918	4.918	(1.000)	20583	0.10000	
$ 33 Nitrobenzene-d5	82	4.262	4.262	(0.867)	6972	0.10000	0.1016(M)
* 86 Acenaphthene-d10	164	6.603	6.603	(1.000)	11296	0.10000	
$ 69 2-Fluorobiphenyl	172	5.943	5.943	(0.900)	16916	0.10000	0.09621
* 126 Phenanthrene-d10	188	8.058	8.058	(1.000)	19503	0.10000	
* 182 Chrysene-d12	240	10.963	10.963	(1.000)	7205	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.661	9.661	(0.881)	13702	0.10000	0.1012(M)
* 198 Perylene-d12	264	13.090	13.090	(1.000)	4516	0.10000	
1 1,4-Dioxane	58	1.994	1.994	(0.526)	273	0.10000	0.1082(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01141423

Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\006.D

Date : 10-MAR-2022 11:40

Client ID: 1 4 DX-0.1

Instrument: SV6.i

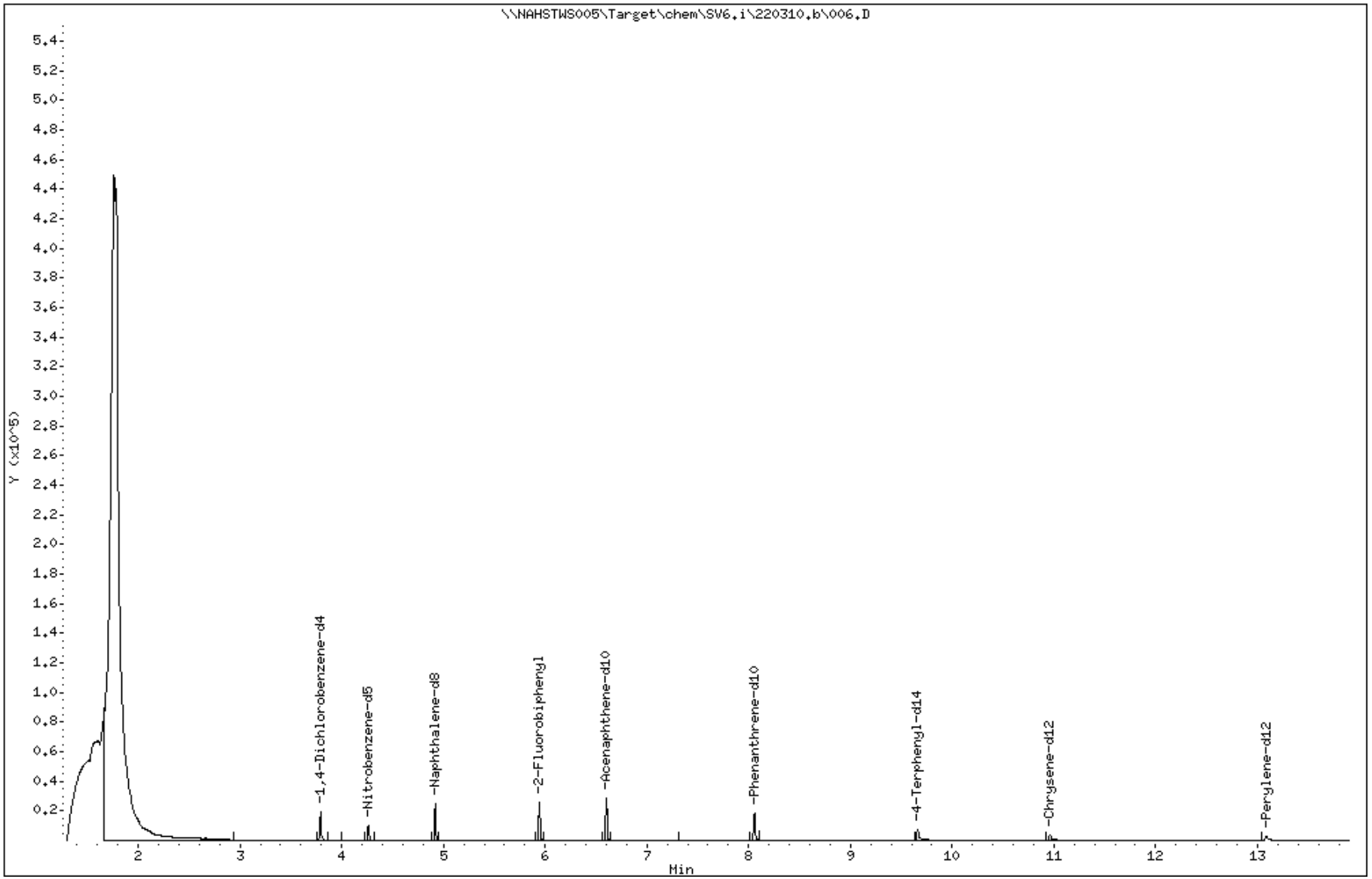
Sample Info: 1 4 DX-0.1;1 4 DX-0.1

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

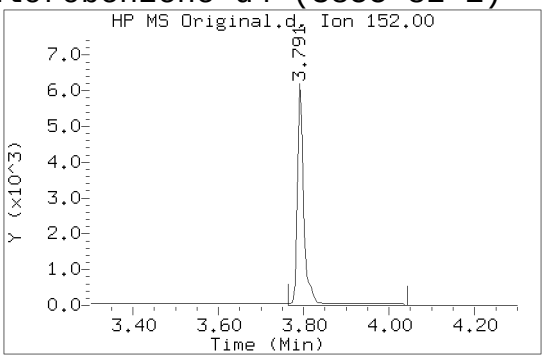


Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\006.D
Inj Date : 10-MAR-2022 11:40
InstruID : SV6.i
LabSampID : 1 4 DX-0.1

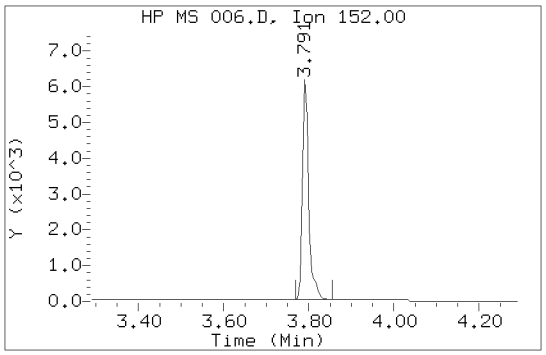
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

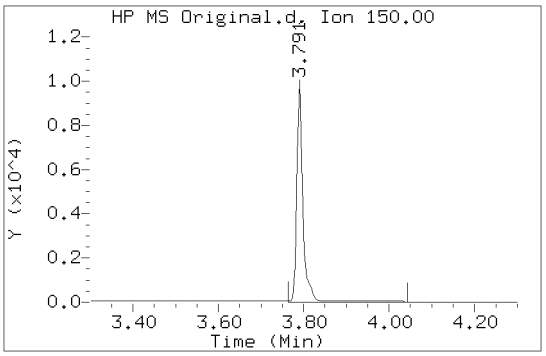
BEFORE
MASS
152
AREA
7014
HEIGHT
6198
25-Aug-2022
16:04
linh
pham



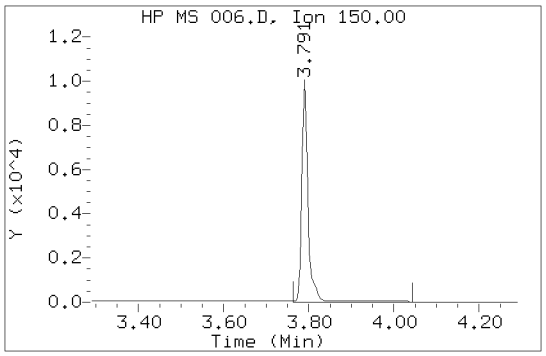
AFTER
MASS
152
AREA
6146
HEIGHT
6147
25-Aug-2022
16:08
linh
pham



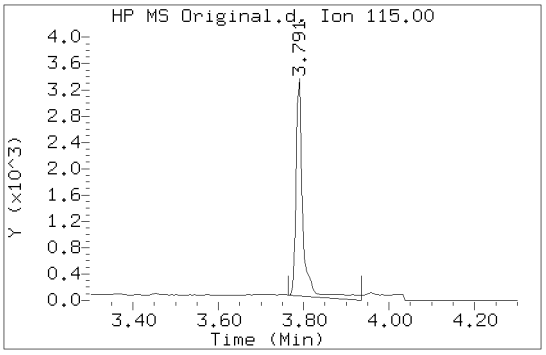
BEFORE
MASS
150
AREA
10435
HEIGHT
10058
25-Aug-2022
16:04
linh
pham



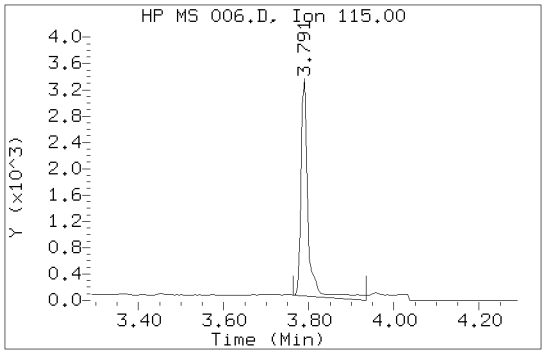
AFTER
MASS
150
AREA
10435
HEIGHT
10058
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
115
AREA
3810
HEIGHT
3300
25-Aug-2022
16:04
linh
pham



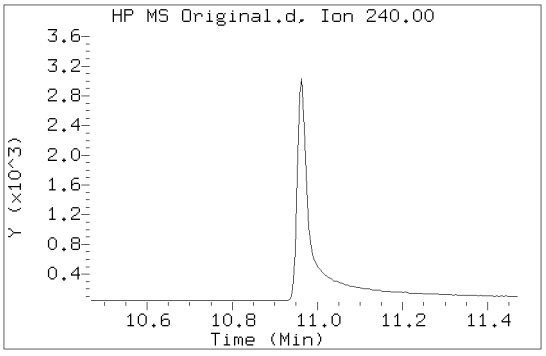
AFTER
MASS
115
AREA
3810
HEIGHT
3300
25-Aug-2022
16:08
linh
pham



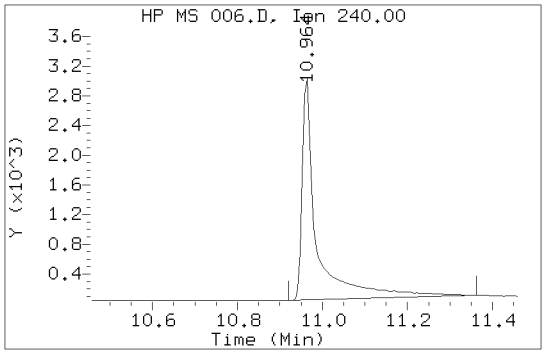
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER
MASS
240
AREA
7205
HEIGHT
2978
25-Aug-2022
16:08
linh
pham

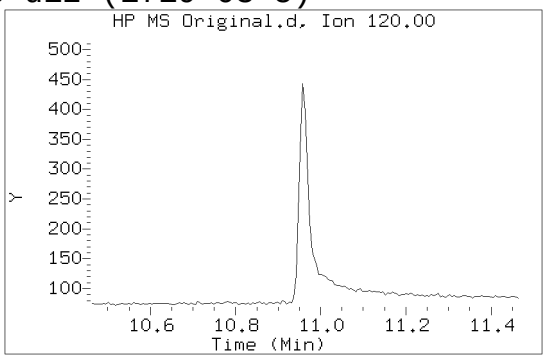


Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\006.D
Inj Date : 10-MAR-2022 11:40
InstruID : SV6.i
LabSampID : 1 4 DX-0.1

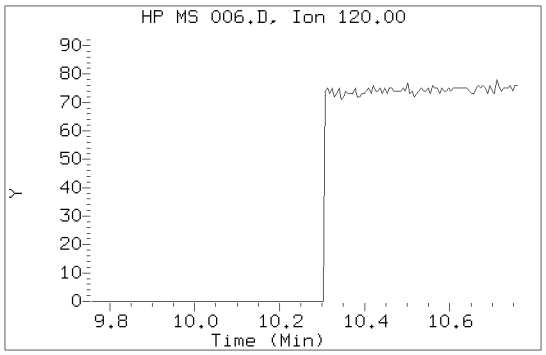
Chrysene-d12 (1719-03-5)

Reason Code:

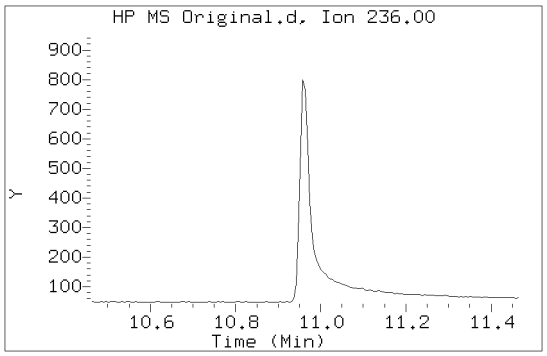
BEFORE
MASS
120
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



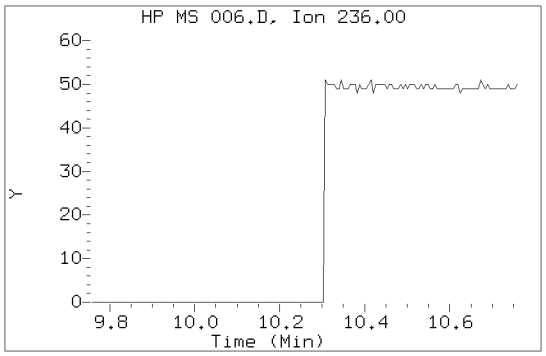
AFTER
MASS
120
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
236
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



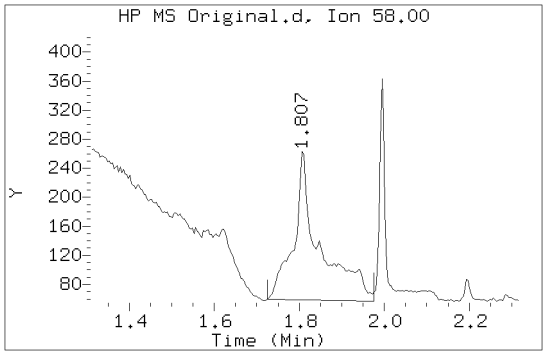
AFTER
MASS
236
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



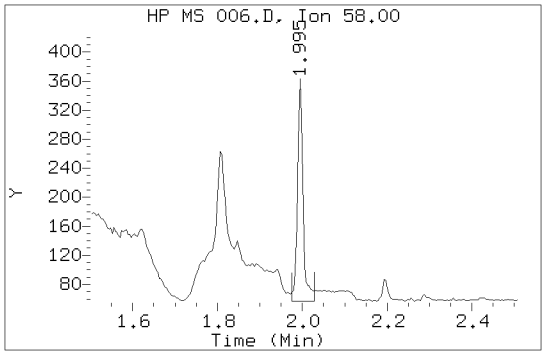
1,4-Dioxane ()

Reason Code:

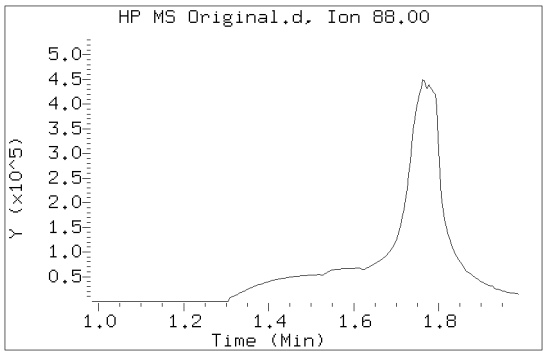
BEFORE
MASS
58
AREA
864
HEIGHT
203
25-Aug-2022
16:04
linh
pham



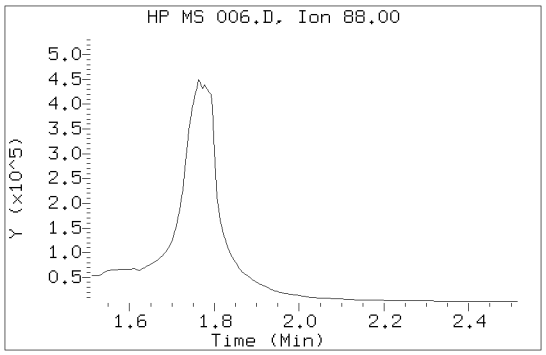
AFTER
MASS
58
AREA
273
HEIGHT
306
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
88
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER
MASS
88
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



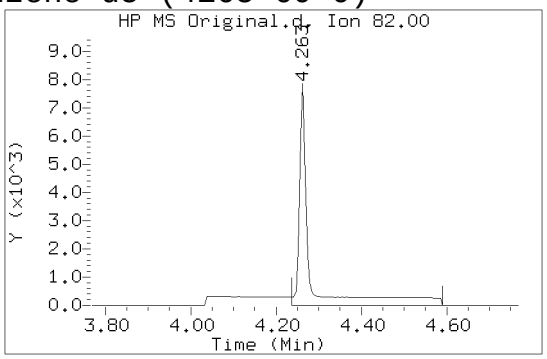
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\006.D
Inj Date : 10-MAR-2022 11:40
InstruID : SV6.i
LabSampID : 1 4 DX-0.1

Nitrobenzene-d5 (4165-60-0)

Reason Code:

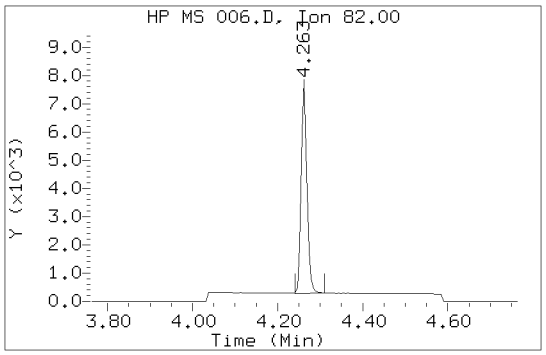
BEFORE

MASS
82
AREA
12838
HEIGHT
7851
25-Aug-2022
16:04
linh
pham



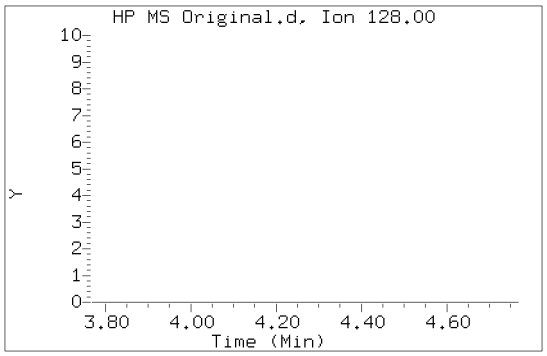
AFTER

MASS
82
AREA
6972
HEIGHT
7565
25-Aug-2022
16:08
linh
pham



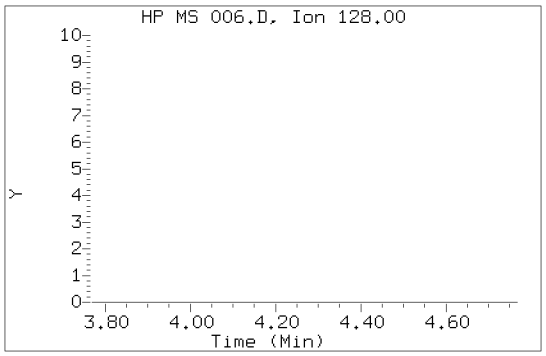
BEFORE

MASS
128
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



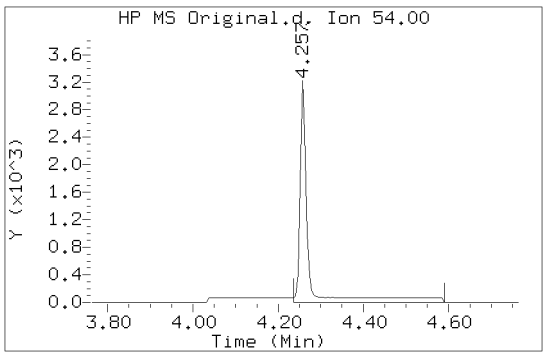
AFTER

MASS
128
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



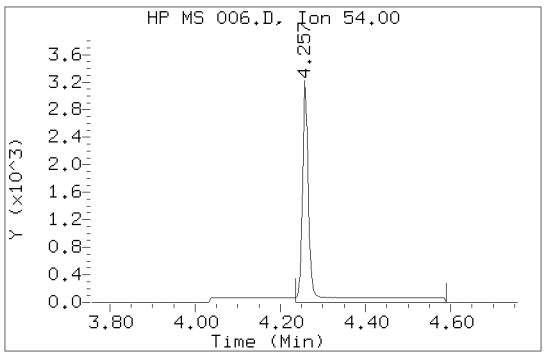
BEFORE

MASS
54
AREA
4279
HEIGHT
3222
25-Aug-2022
16:04
linh
pham



AFTER

MASS
54
AREA
4279
HEIGHT
3222
25-Aug-2022
16:08
linh
pham

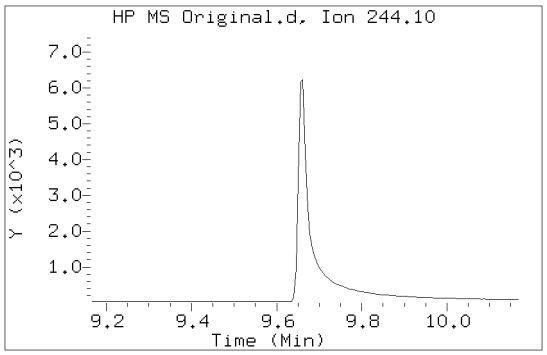


4-Terphenyl-d14 (1718-51-0)

Reason Code:

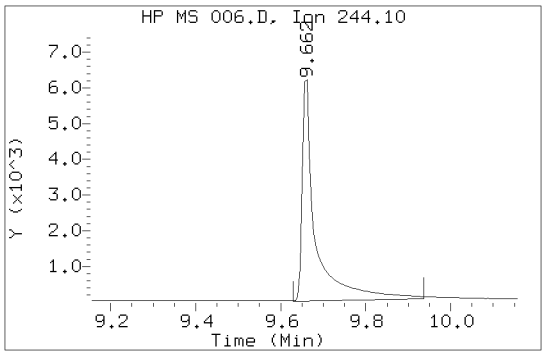
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
244.1
AREA
13702
HEIGHT
6196
25-Aug-2022
16:08
linh
pham

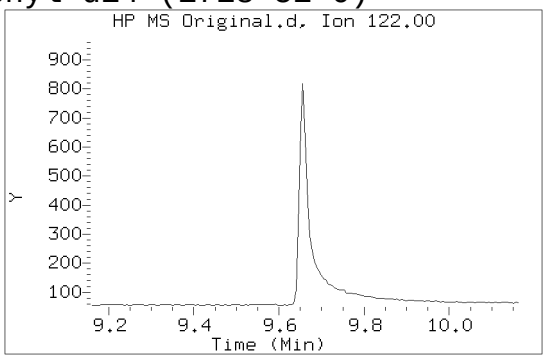


Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\006.D
Inj Date : 10-MAR-2022 11:40
InstruID : SV6.i
LabSampID : 1 4 DX-0.1

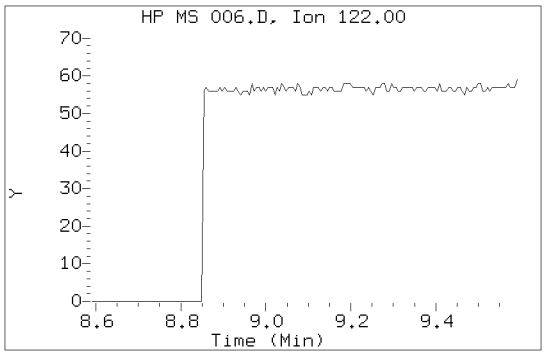
4-Terphenyl-d14 (1718-51-0)

Reason Code:

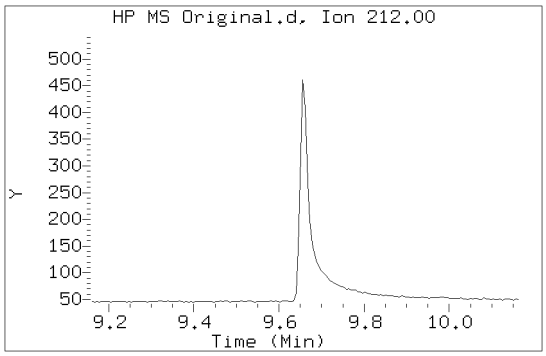
BEFORE
MASS
122
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



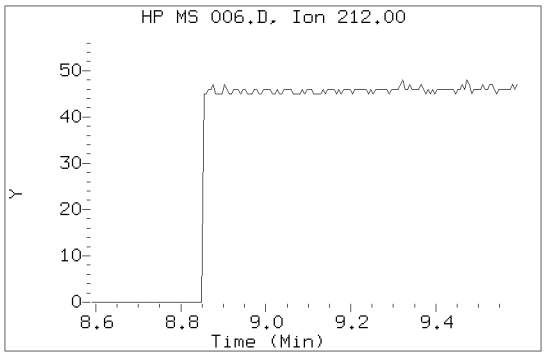
AFTER
MASS
122
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
212
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER
MASS
212
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\007.D Page 1
Report Date: 25-Aug-2022 16:08

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220310.b\007.D
Lab Smp Id: 1 4 DX-0.15 Client Smp ID: 1 4 DX-0.15
Inj Date : 10-MAR-2022 11:58 MS Autotune Date: 09-MAR-2022 11:12
Operator : LG Inst ID: SV6.i
Smp Info : 1 4 DX-0.15;1 4 DX-0.15
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220310.b\DXSIM.m
Meth Date : 25-Aug-2022 16:08 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 11:40 Cal File: 006.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.790	3.790	(1.000)	3795	0.10000	(aM)
* 45 Naphthalene-d8	136	4.918	4.918	(1.000)	14247	0.10000	(M)
$ 33 Nitrobenzene-d5	82	4.262	4.262	(0.867)	6488	0.15000	0.1366(M)
* 86 Acenaphthene-d10	164	6.603	6.603	(1.000)	7392	0.10000	
$ 69 2-Fluorobiphenyl	172	5.943	5.943	(0.900)	16942	0.15000	0.1472
* 126 Phenanthrene-d10	188	8.058	8.058	(1.000)	12440	0.10000	
* 182 Chrysene-d12	240	10.963	10.963	(1.000)	4575	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.661	9.661	(0.881)	13069	0.15000	0.1519(AM)
* 198 Perylene-d12	264	13.090	13.090	(1.000)	2595	0.10000	
1 1,4-Dioxane	58	1.979	1.979	(0.522)	238	0.15000	0.1528(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.
M - Compound response manually integrated.

01141429

Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\007.D

Date : 10-MAR-2022 11:58

Client ID: 1 4 DX-0.15

Instrument: SV6.i

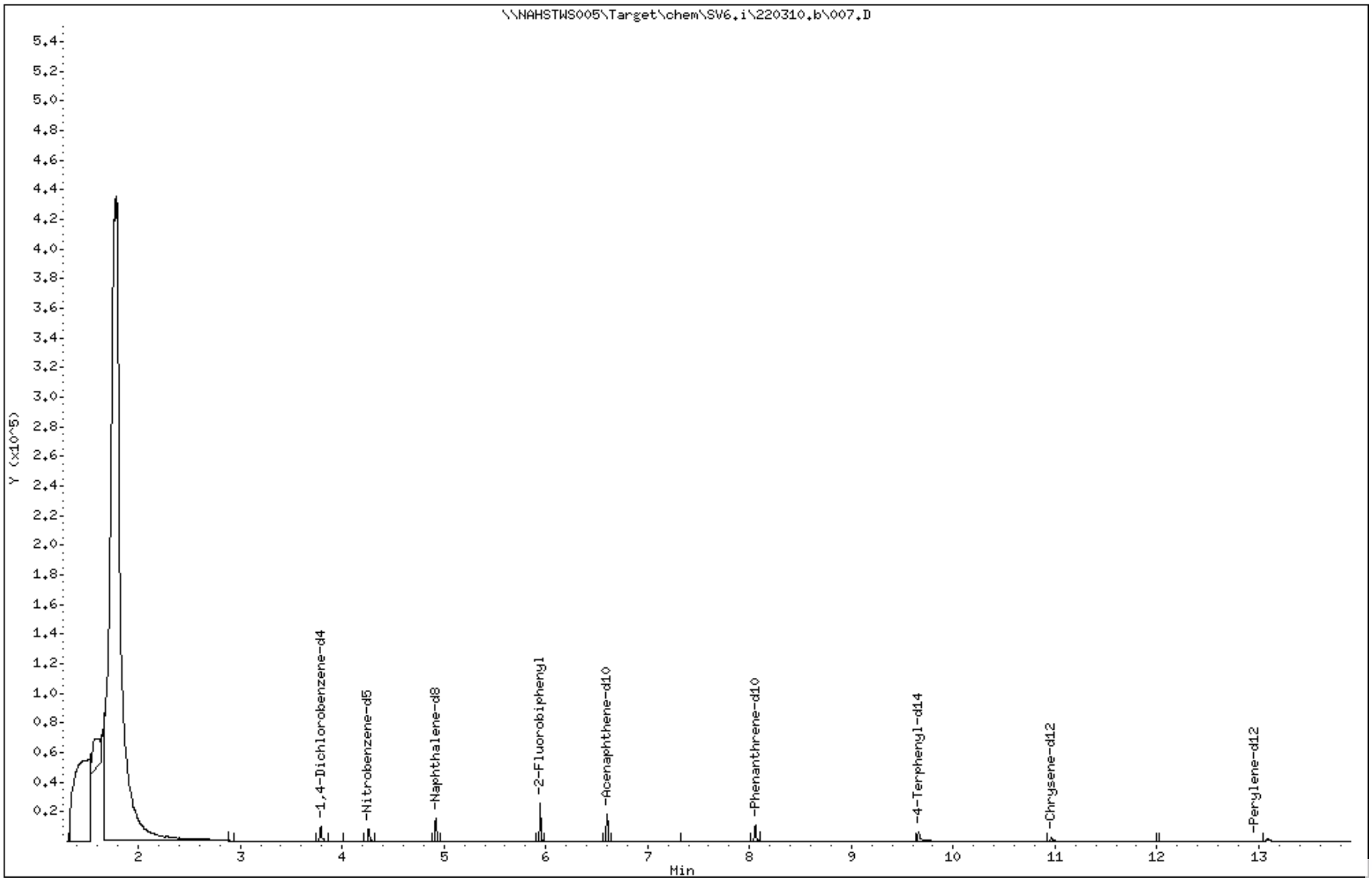
Sample Info: 1 4 DX-0.15;1 4 DX-0.15

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



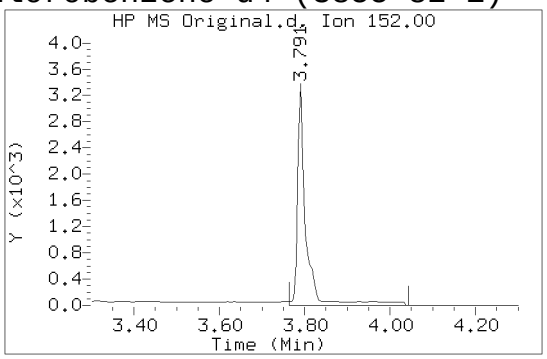
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\007.D
Inj Date : 10-MAR-2022 11:58
InstruID : SV6.i
LabSampID : 1 4 DX-0.15

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

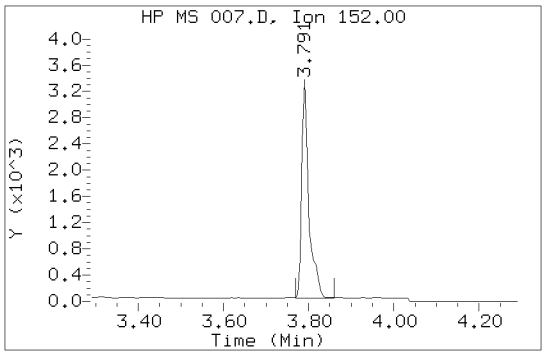
BEFORE

MASS
152
AREA
4665
HEIGHT
3379
25-Aug-2022
16:04
linh
pham



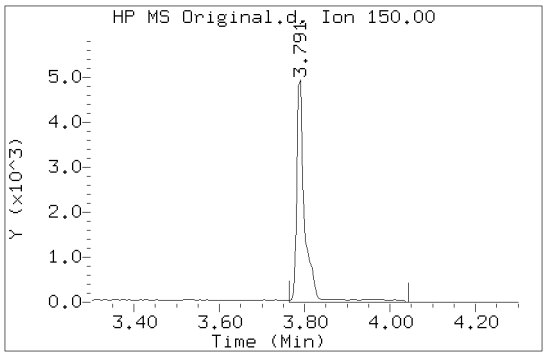
AFTER

MASS
152
AREA
3795
HEIGHT
3326
25-Aug-2022
16:08
linh
pham



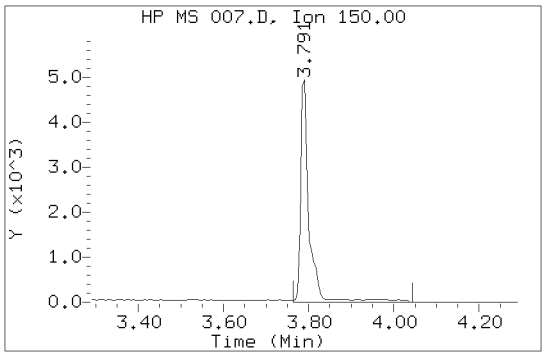
BEFORE

MASS
150
AREA
6833
HEIGHT
4945
25-Aug-2022
16:04
linh
pham



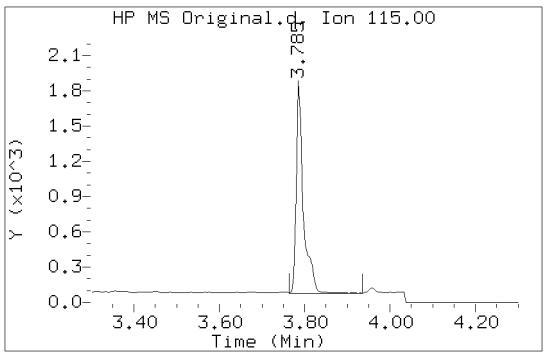
AFTER

MASS
150
AREA
6833
HEIGHT
4945
25-Aug-2022
16:08
linh
pham



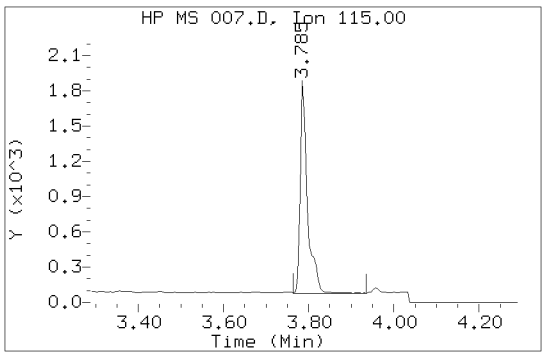
BEFORE

MASS
115
AREA
2089
HEIGHT
1807
25-Aug-2022
16:04
linh
pham



AFTER

MASS
115
AREA
2089
HEIGHT
1807
25-Aug-2022
16:08
linh
pham

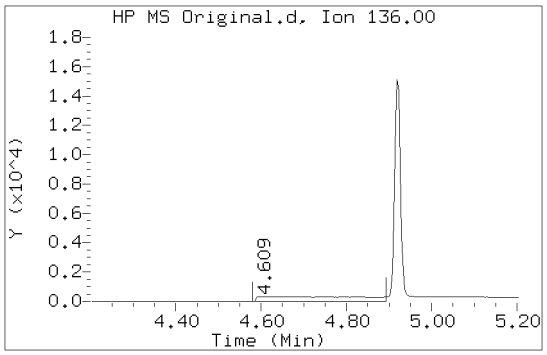


Naphthalene-d8 (1146-65-2)

Reason Code:

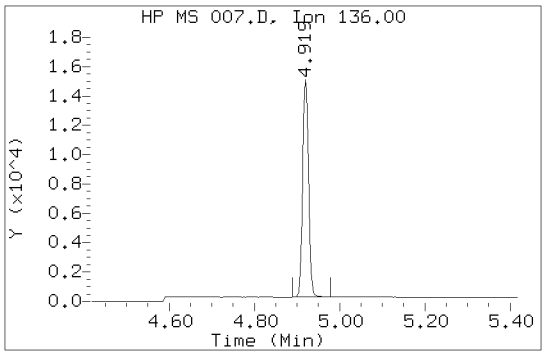
BEFORE

MASS
136
AREA
5460
HEIGHT
316
25-Aug-2022
16:04
linh
pham



AFTER

MASS
136
AREA
14247
HEIGHT
14814
25-Aug-2022
16:08
linh
pham



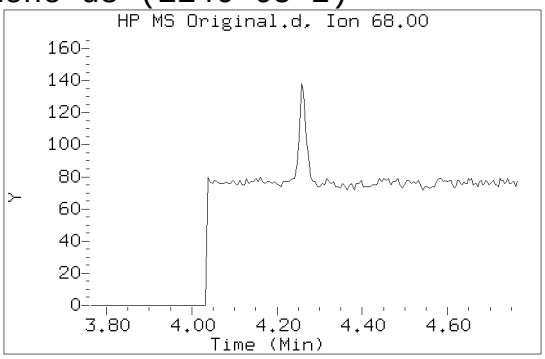
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\007.D
Inj Date : 10-MAR-2022 11:58
InstruID : SV6.i
LabSampID : 1 4 DX-0.15

Naphthalene-d8 (1146-65-2)

Reason Code:

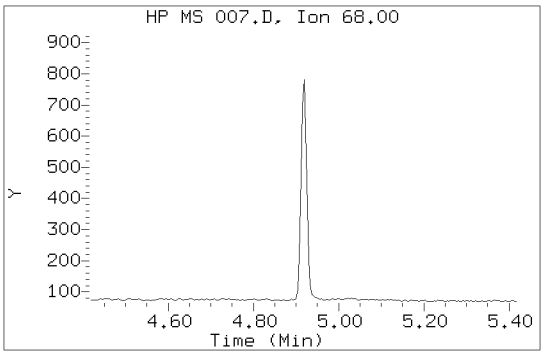
BEFORE

MASS
68
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
68
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham

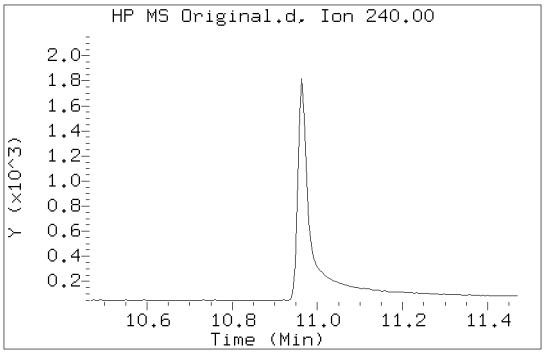


Chrysene-d12 (1719-03-5)

Reason Code:

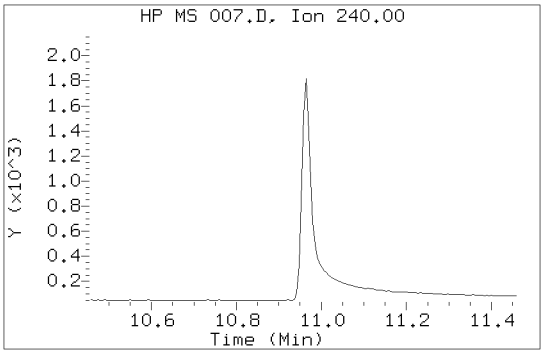
BEFORE

MASS
240
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



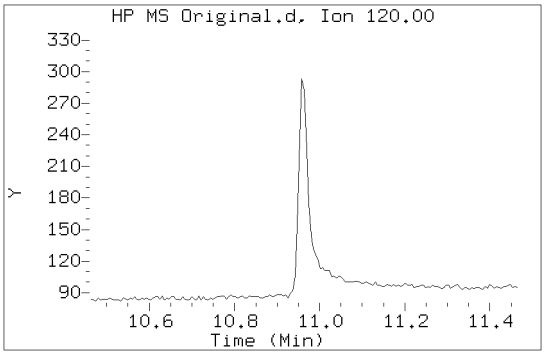
AFTER

MASS
240
AREA
4575
HEIGHT
1766
25-Aug-2022
16:08
linh
pham



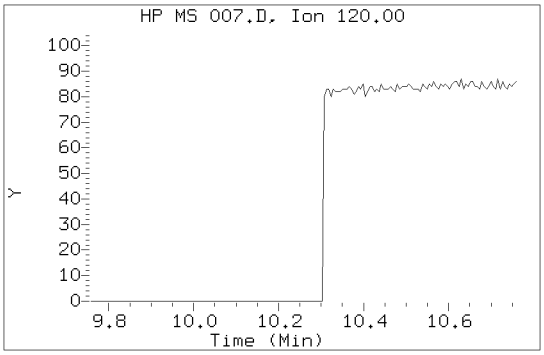
BEFORE

MASS
120
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



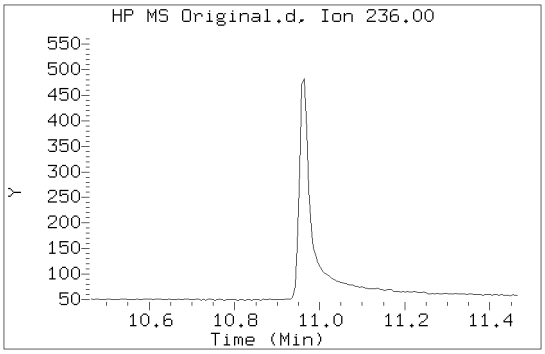
AFTER

MASS
120
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



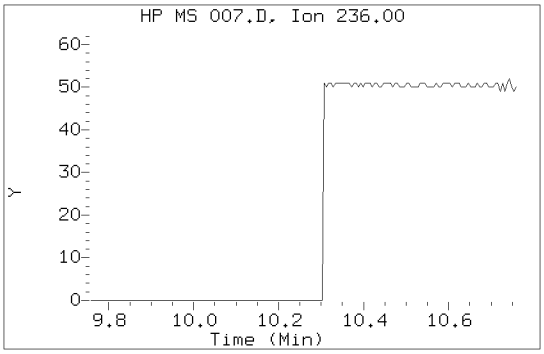
BEFORE

MASS
236
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
236
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



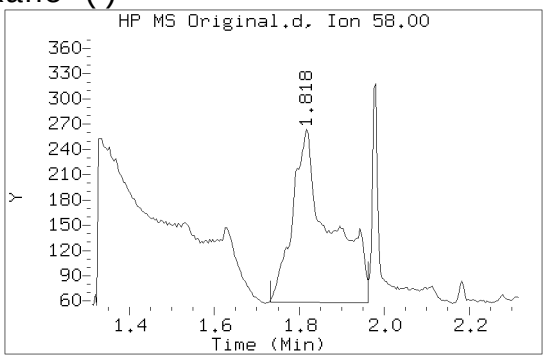
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\007.D
Inj Date : 10-MAR-2022 11:58
InstruID : SV6.i
LabSampID : 1 4 DX-0.15

1,4-Dioxane ()

Reason Code:

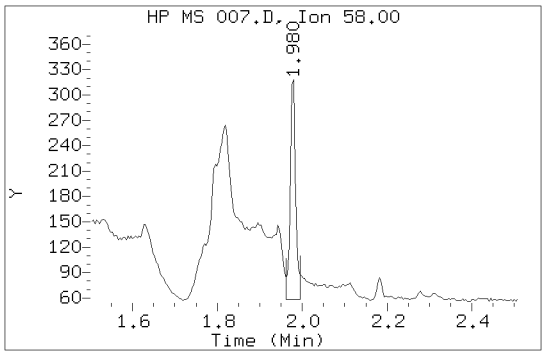
BEFORE

MASS
58
AREA
1252
HEIGHT
205
25-Aug-2022
16:04
linh
pham



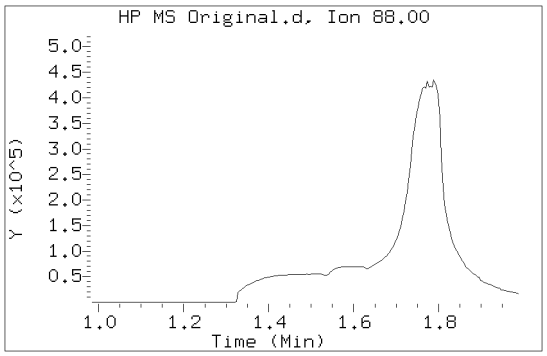
AFTER

MASS
58
AREA
238
HEIGHT
260
25-Aug-2022
16:08
linh
pham



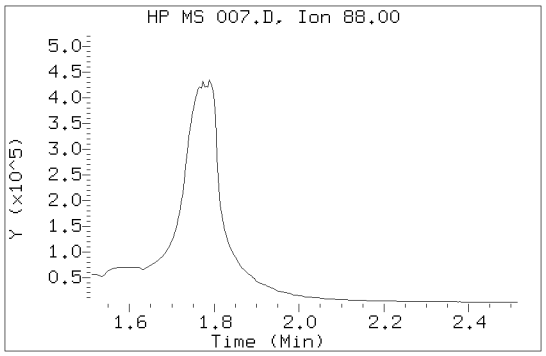
BEFORE

MASS
88
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
88
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham

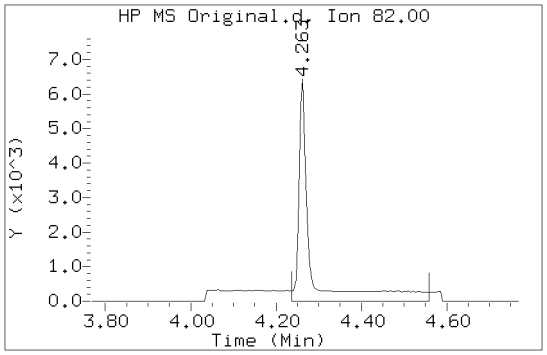


Nitrobenzene-d5 (4165-60-0)

Reason Code:

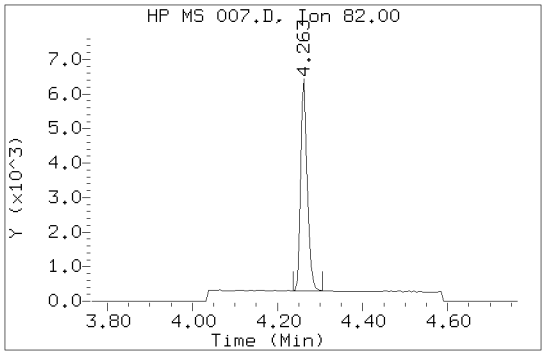
BEFORE

MASS
82
AREA
12102
HEIGHT
6437
25-Aug-2022
16:04
linh
pham



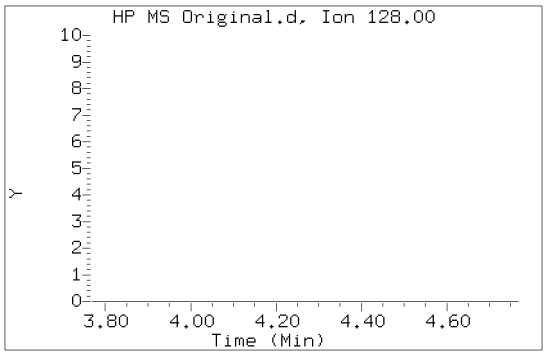
AFTER

MASS
82
AREA
6488
HEIGHT
6131
25-Aug-2022
16:08
linh
pham



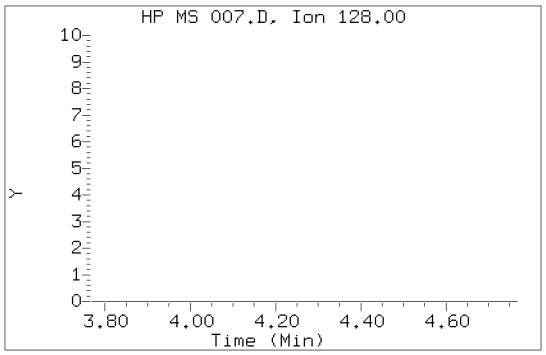
BEFORE

MASS
128
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
128
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



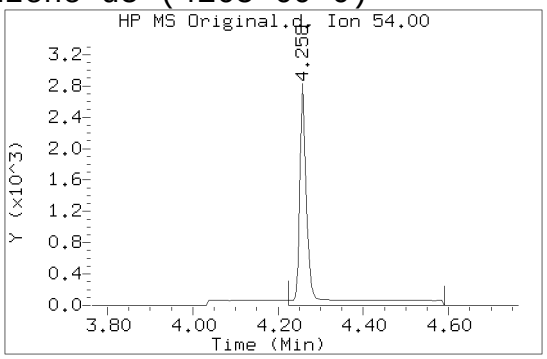
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\007.D
Inj Date : 10-MAR-2022 11:58
InstruID : SV6.i
LabSampID : 1 4 DX-0.15

Nitrobenzene-d5 (4165-60-0)

Reason Code:

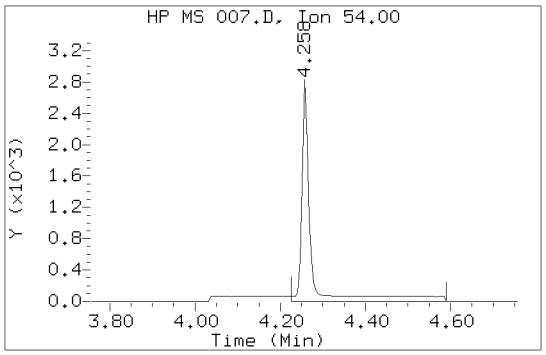
BEFORE

MASS
54
AREA
4221
HEIGHT
2829
25-Aug-2022
16:04
linh
pham



AFTER

MASS
54
AREA
4221
HEIGHT
2829
25-Aug-2022
16:08
linh
pham

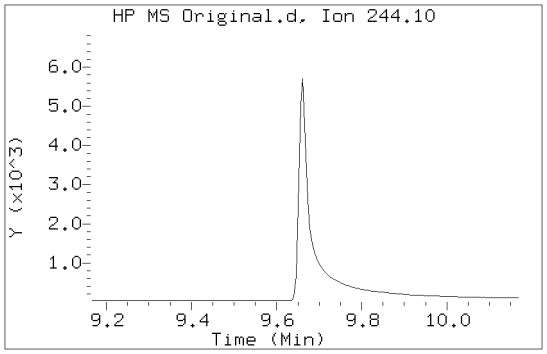


4-Terphenyl-d14 (1718-51-0)

Reason Code:

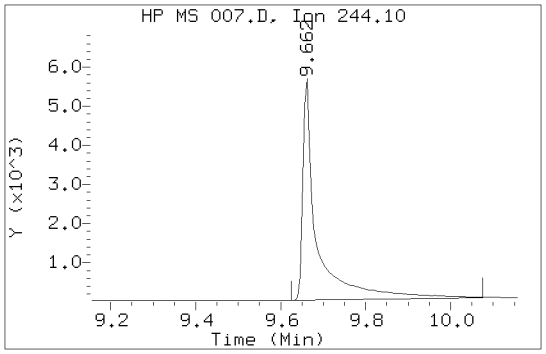
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



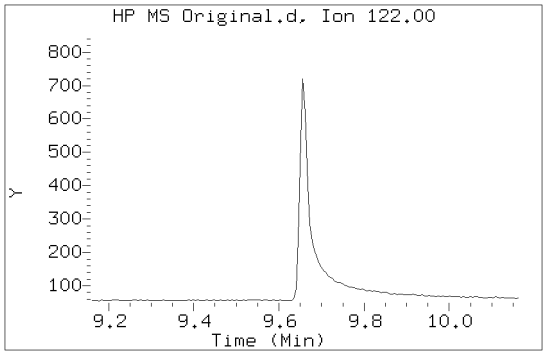
AFTER

MASS
244.1
AREA
13069
HEIGHT
5661
25-Aug-2022
16:08
linh
pham



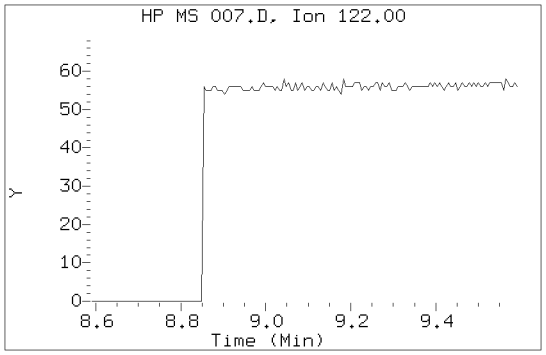
BEFORE

MASS
122
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



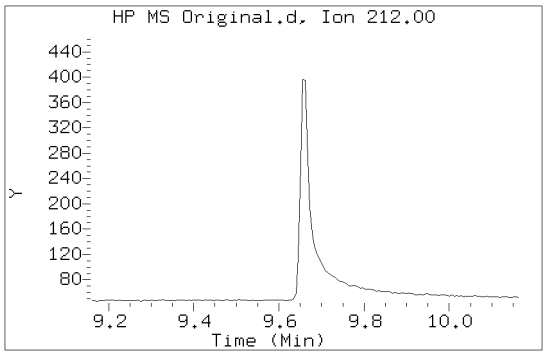
AFTER

MASS
122
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



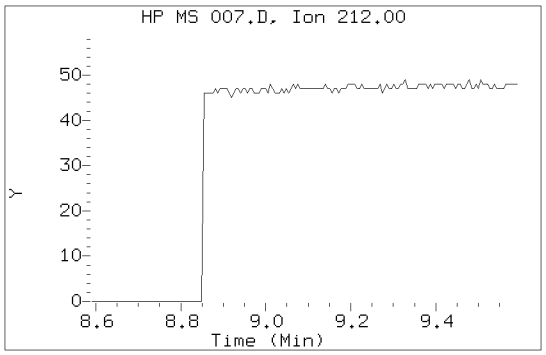
BEFORE

MASS
212
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
212
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220310.b\008.D
Lab Smp Id: 1 4 DX-0.2 Client Smp ID: 1 4 DX-0.2
Inj Date : 10-MAR-2022 12:16 MS Autotune Date: 09-MAR-2022 11:12
Operator : LG Inst ID: SV6.i
Smp Info : 1 4 DX-0.2;1 4 DX-0.2
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220310.b\DXSIM.m
Meth Date : 25-Aug-2022 16:08 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 11:58 Cal File: 007.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.796	3.796	(1.000)	7263	0.10000	(aM)
* 45 Naphthalene-d8	136	4.918	4.918	(1.000)	25657	0.10000	
$ 33 Nitrobenzene-d5	82	4.262	4.262	(0.867)	17003	0.20000	0.1988(AM)
* 86 Acenaphthene-d10	164	6.603	6.603	(1.000)	14251	0.10000	
$ 69 2-Fluorobiphenyl	172	5.943	5.943	(0.900)	43148	0.20000	0.1945(A)
* 126 Phenanthrene-d10	188	8.059	8.059	(1.000)	24746	0.10000	
* 182 Chrysene-d12	240	10.963	10.963	(1.000)	9545	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.661	9.661	(0.881)	36799	0.20000	0.2050(AM)
* 198 Perylene-d12	264	13.090	13.090	(1.000)	5135	0.10000	
1 1,4-Dioxane	58	2.013	2.013	(0.530)	614	0.20000	0.2059(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.
M - Compound response manually integrated.

01141435

Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\008.D

Date : 10-MAR-2022 12:16

Client ID: 1 4 DX-0.2

Instrument: SV6.i

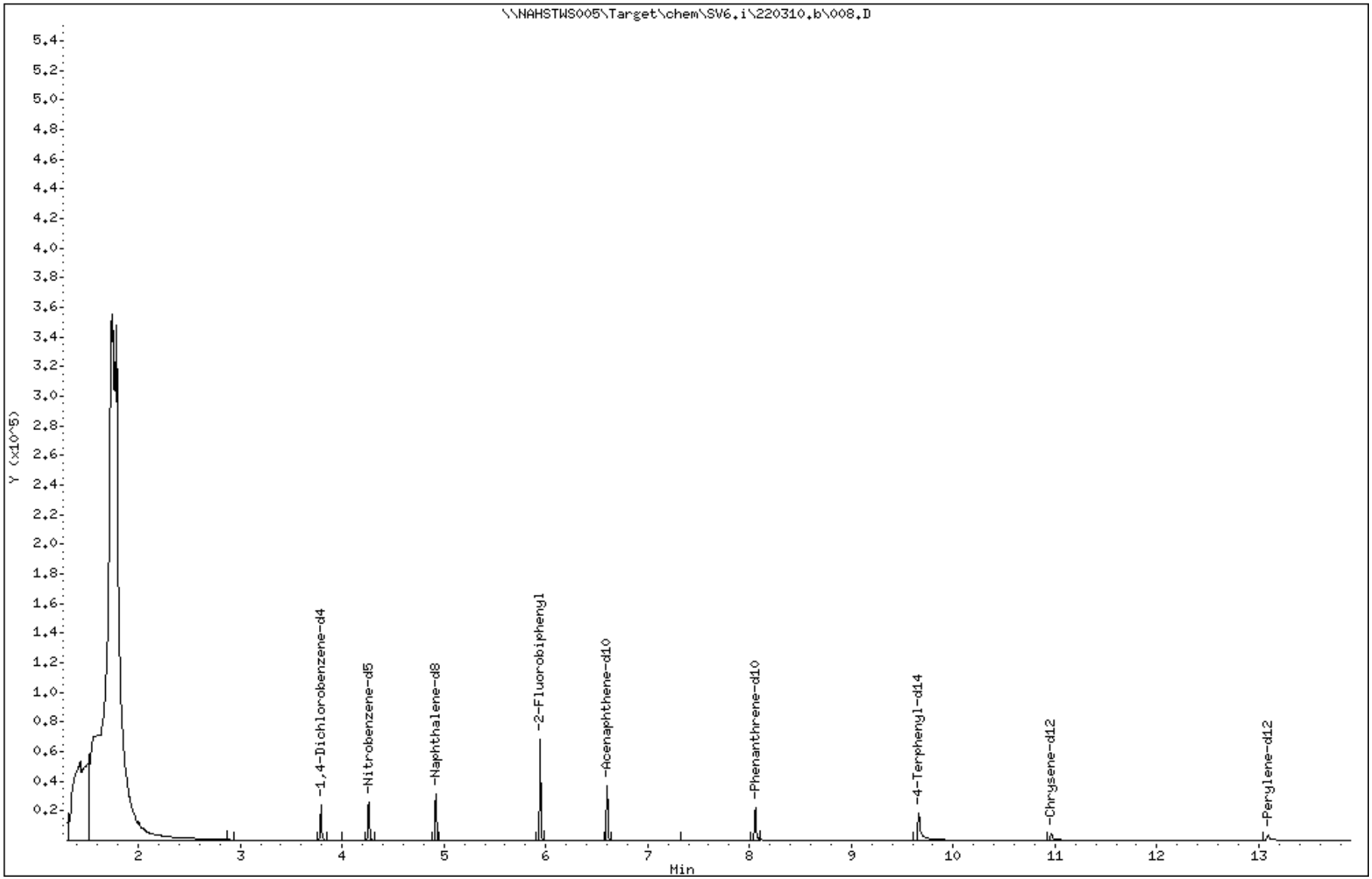
Sample Info: 1 4 DX-0.2;1 4 DX-0.2

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



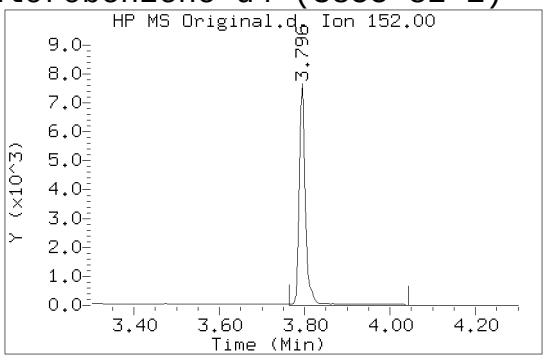
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\008.D
Inj Date : 10-MAR-2022 12:16
InstruID : SV6.i
LabSampID : 1 4 DX-0.2

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

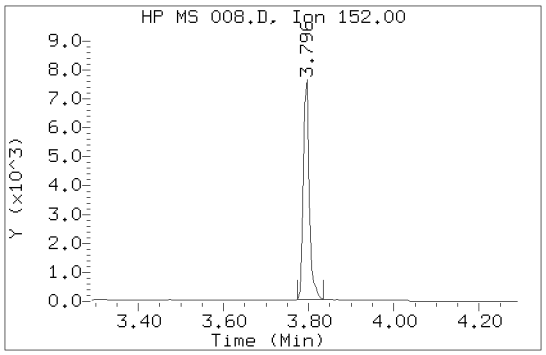
BEFORE

MASS
152
AREA
8188
HEIGHT
7663
25-Aug-2022
16:04
linh
pham



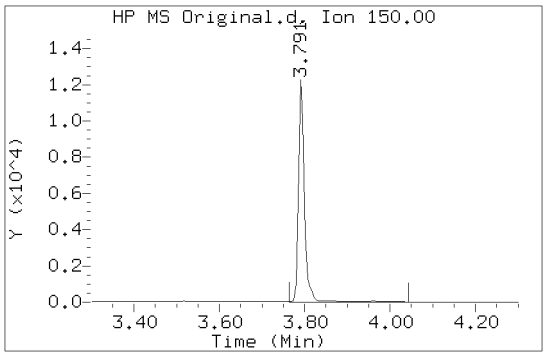
AFTER

MASS
152
AREA
7263
HEIGHT
7596
25-Aug-2022
16:08
linh
pham



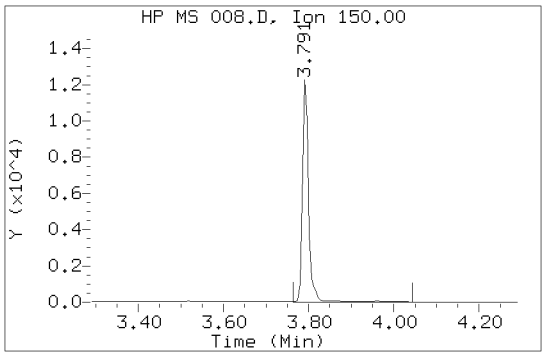
BEFORE

MASS
150
AREA
12278
HEIGHT
12265
25-Aug-2022
16:04
linh
pham



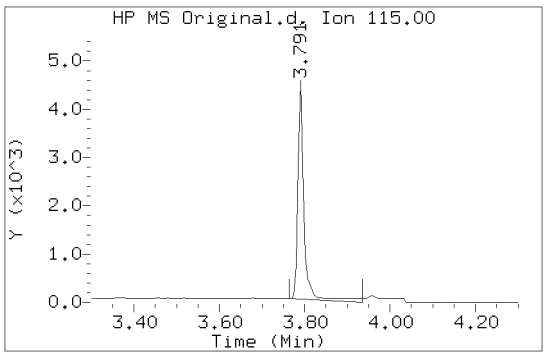
AFTER

MASS
150
AREA
12278
HEIGHT
12265
25-Aug-2022
16:08
linh
pham



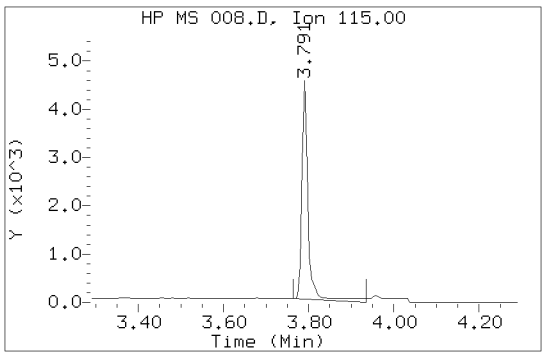
BEFORE

MASS
115
AREA
4513
HEIGHT
4526
25-Aug-2022
16:04
linh
pham



AFTER

MASS
115
AREA
4513
HEIGHT
4526
25-Aug-2022
16:08
linh
pham

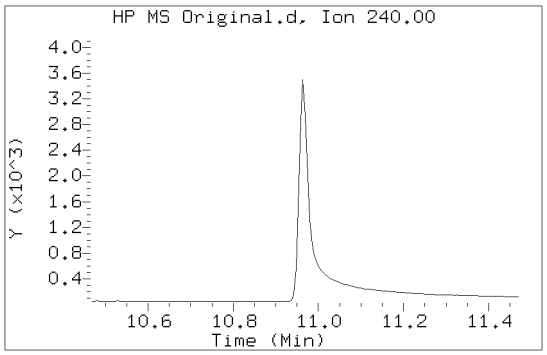


Chrysene-d12 (1719-03-5)

Reason Code:

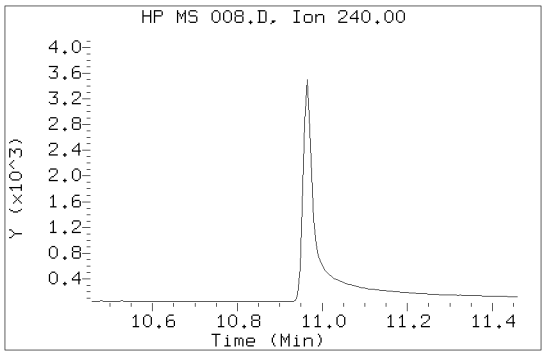
BEFORE

MASS
240
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
240
AREA
9545
HEIGHT
3446
25-Aug-2022
16:08
linh
pham



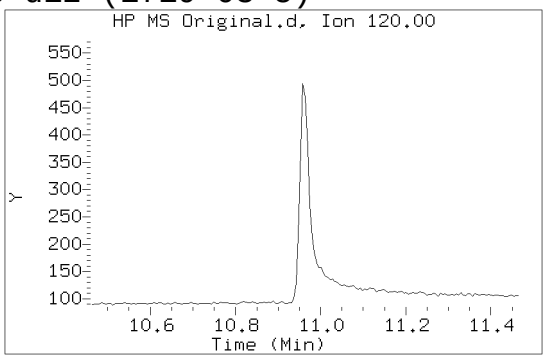
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\008.D
Inj Date : 10-MAR-2022 12:16
InstruID : SV6.i
LabSampID : 1 4 DX-0.2

Chrysene-d12 (1719-03-5)

Reason Code:

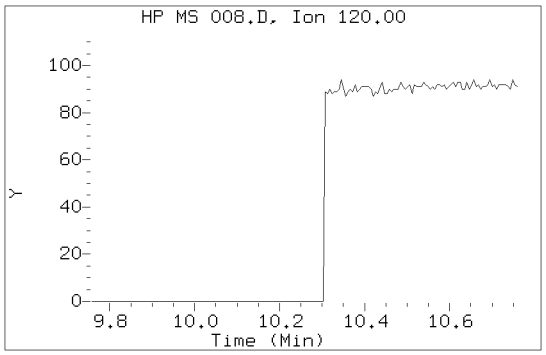
BEFORE

MASS
120
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



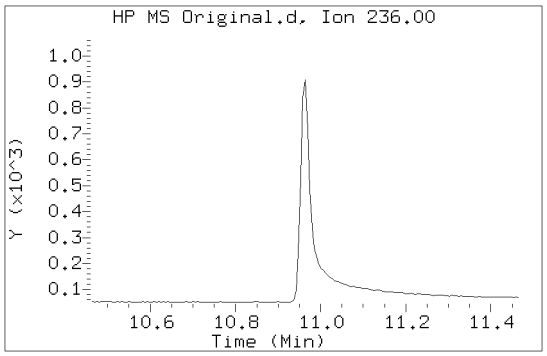
AFTER

MASS
120
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



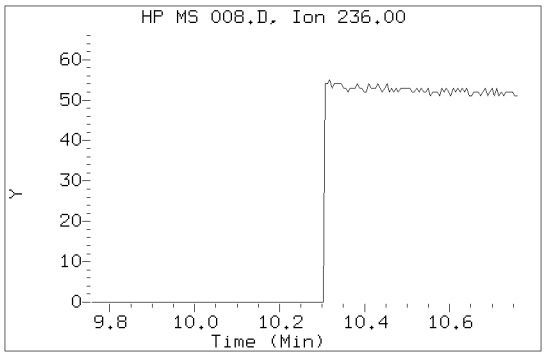
BEFORE

MASS
236
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
236
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham

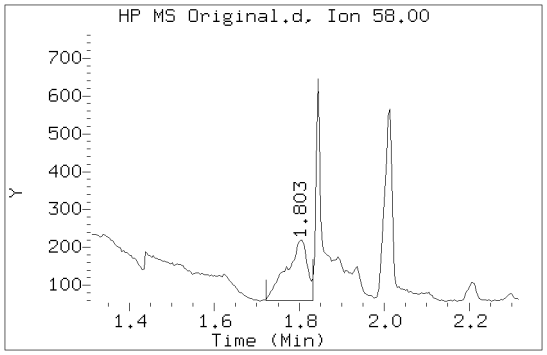


1,4-Dioxane ()

Reason Code:

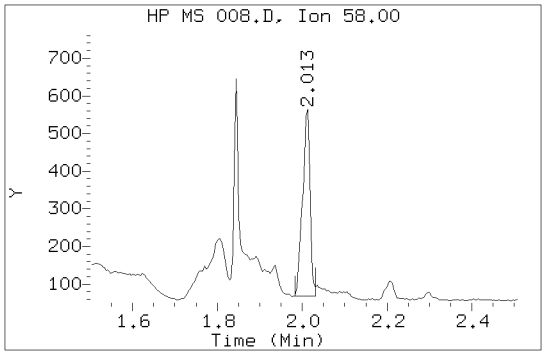
BEFORE

MASS
58
AREA
554
HEIGHT
160
25-Aug-2022
16:04
linh
pham



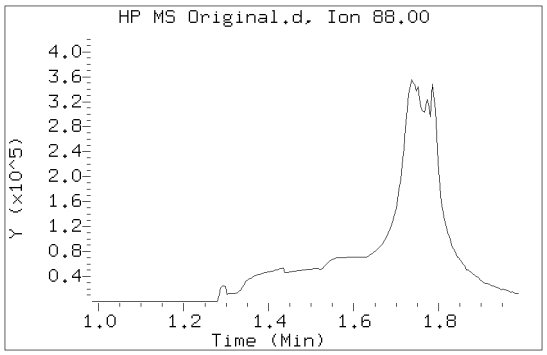
AFTER

MASS
58
AREA
614
HEIGHT
496
25-Aug-2022
16:08
linh
pham



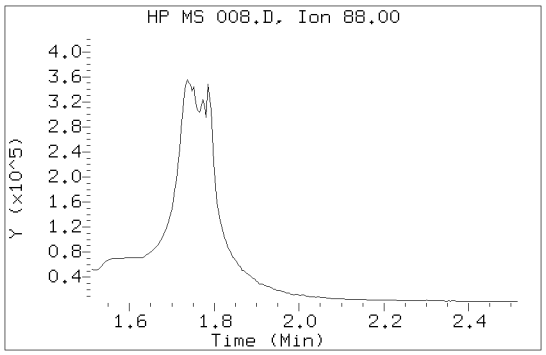
BEFORE

MASS
88
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
88
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



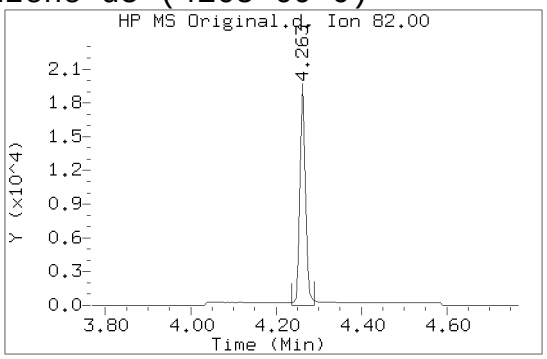
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\008.D
Inj Date : 10-MAR-2022 12:16
InstruID : SV6.i
LabSampID : 1 4 DX-0.2

Nitrobenzene-d5 (4165-60-0)

Reason Code:

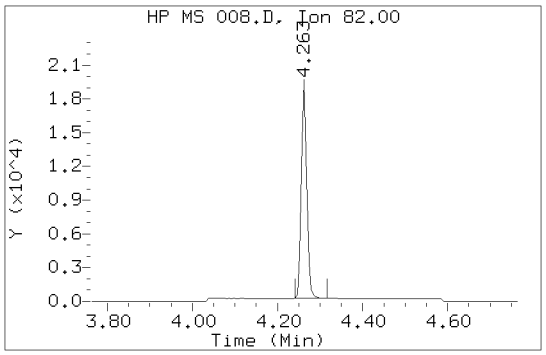
BEFORE

MASS
82
AREA
17887
HEIGHT
19712
25-Aug-2022
16:04
linh
pham



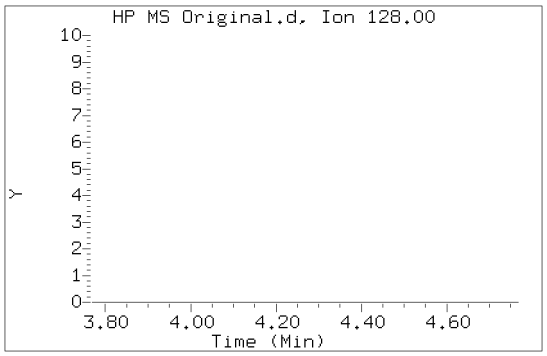
AFTER

MASS
82
AREA
17003
HEIGHT
19451
25-Aug-2022
16:08
linh
pham



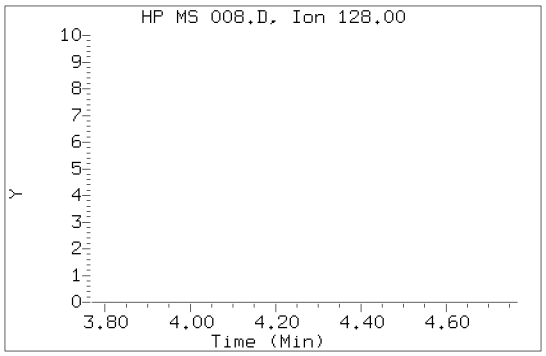
BEFORE

MASS
128
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



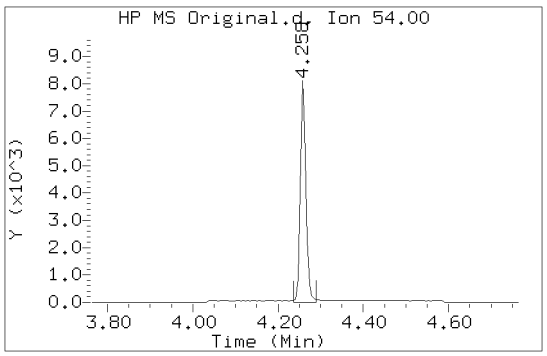
AFTER

MASS
128
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



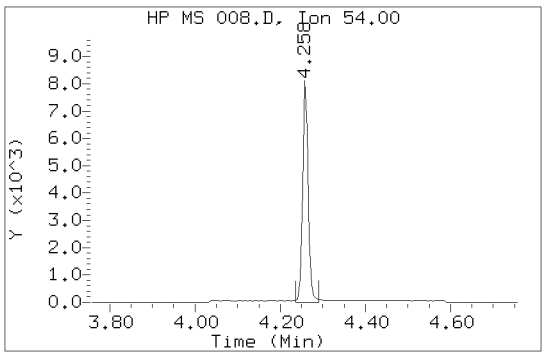
BEFORE

MASS
54
AREA
7400
HEIGHT
8110
25-Aug-2022
16:04
linh
pham



AFTER

MASS
54
AREA
7400
HEIGHT
8110
25-Aug-2022
16:08
linh
pham

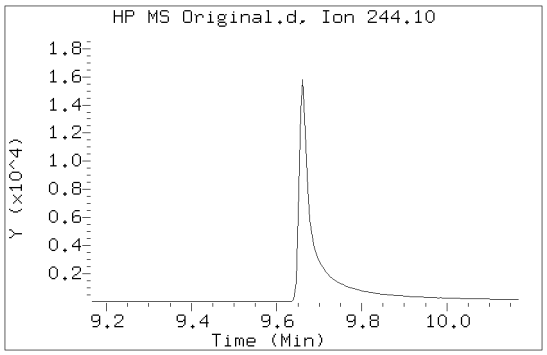


4-Terphenyl-d14 (1718-51-0)

Reason Code:

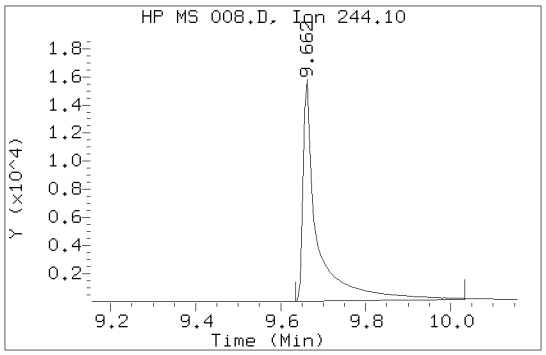
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
244.1
AREA
36799
HEIGHT
15739
25-Aug-2022
16:08
linh
pham

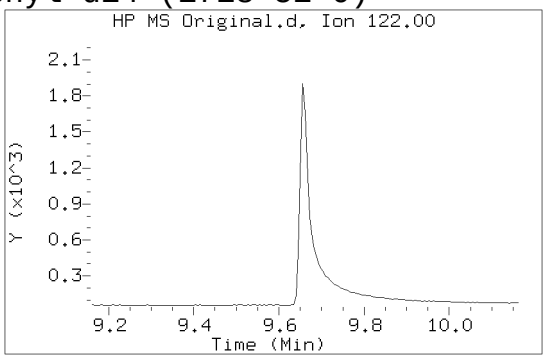


Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\008.D
Inj Date : 10-MAR-2022 12:16
InstruID : SV6.i
LabSampID : 1 4 DX-0.2

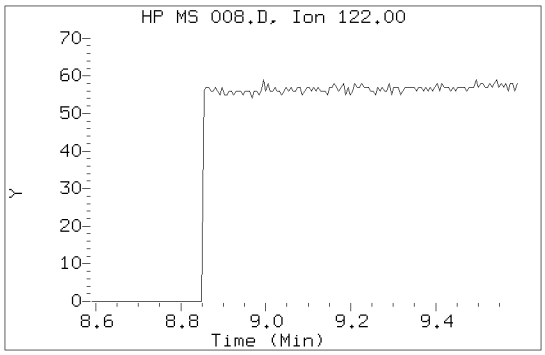
4-Terphenyl-d14 (1718-51-0)

Reason Code:

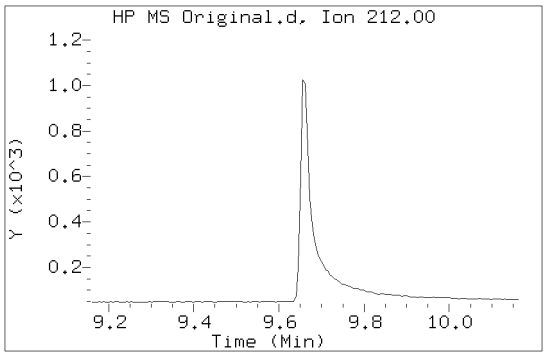
BEFORE
MASS
122
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



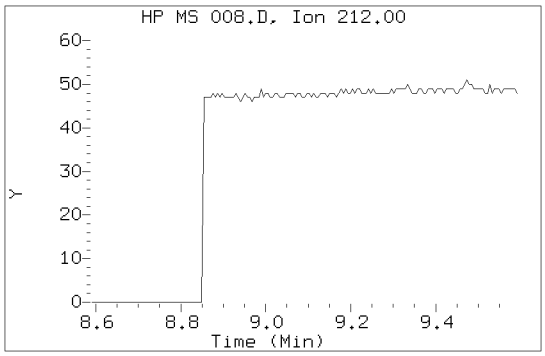
AFTER
MASS
122
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
212
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER
MASS
212
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\009.D Page 1
Report Date: 25-Aug-2022 16:08

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220310.b\009.D
Lab Smp Id: 1 4 DX-0.5 Client Smp ID: 1 4 DX-0.5
Inj Date : 10-MAR-2022 12:56 MS Autotune Date: 09-MAR-2022 11:12
Operator : LG Inst ID: SV6.i
Smp Info : 1 4 DX-0.5;1 4 DX-0.5
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220310.b\DXSIM.m
Meth Date : 25-Aug-2022 16:08 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 12:16 Cal File: 008.D
Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.801	3.801	(1.000)	6911	0.10000	(aQM)
* 45 Naphthalene-d8	136	4.922	4.922	(1.000)	13189	0.10000	(M)
$ 33 Nitrobenzene-d5	82	4.268	4.268	(0.907)	21014	0.50000	0.4780(A)
* 86 Acenaphthene-d10	164	6.603	6.603	(1.000)	7222	0.10000	(QM)
$ 69 2-Fluorobiphenyl	172	5.943	5.943	(1.000)	52166	0.50000	0.4640(A)
* 126 Phenanthrene-d10	188	8.064	8.064	(1.000)	12388	0.10000	
* 182 Chrysene-d12	240	10.969	10.969	(1.000)	3790	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.667	9.667	(0.881)	36357	0.50000	0.5102(AM)
* 198 Perylene-d12	264	13.101	13.101	(1.000)	1809	0.10000	
1 1,4-Dioxane	58	2.049	2.049	(0.539)	1286	0.50000	0.4533(H)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

01141442

Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\009.D

Date : 10-MAR-2022 12:56

Client ID: 1 4 DX-0.5

Instrument: SV6.i

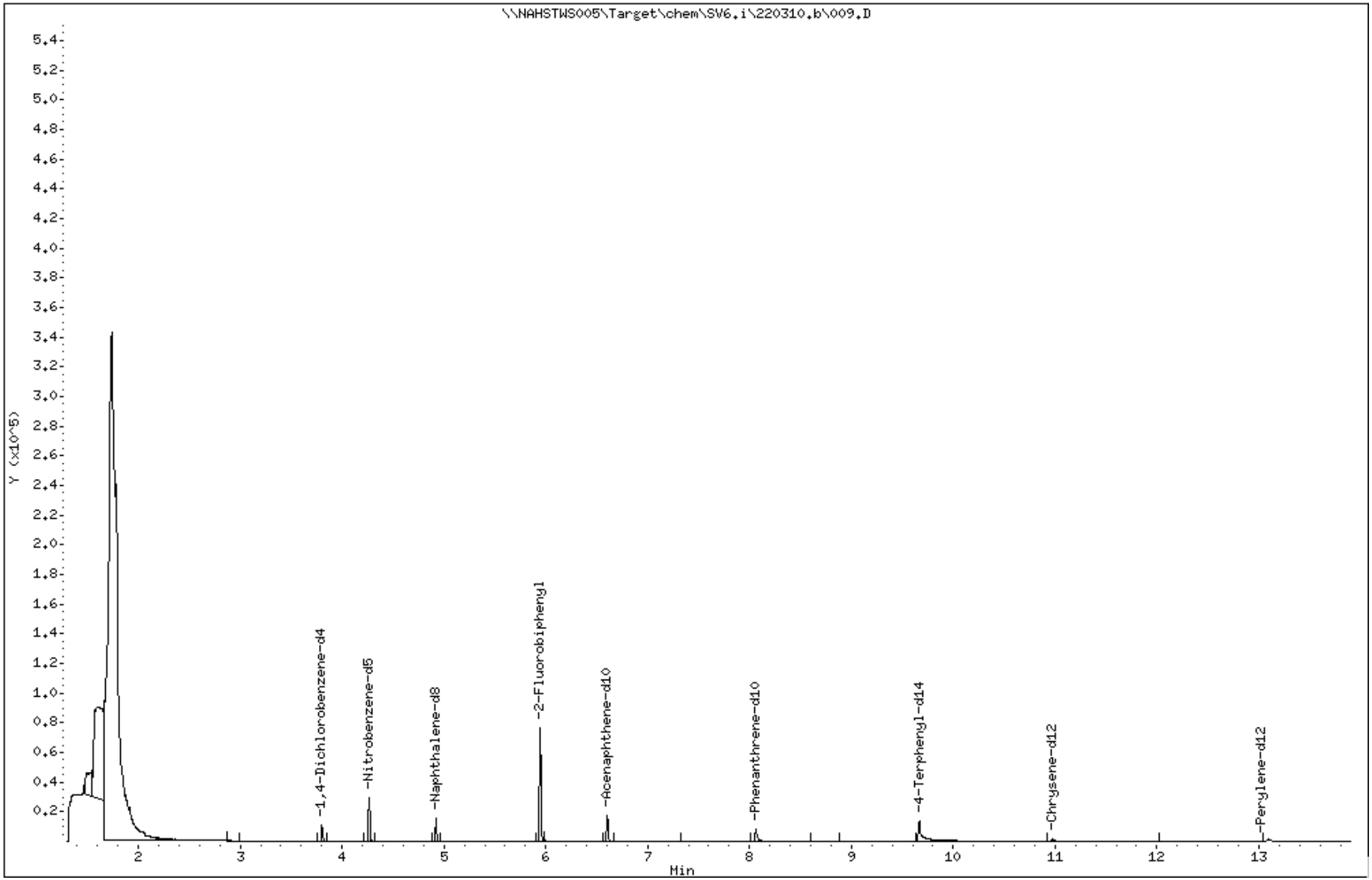
Sample Info: 1 4 DX-0.5;1 4 DX-0.5

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

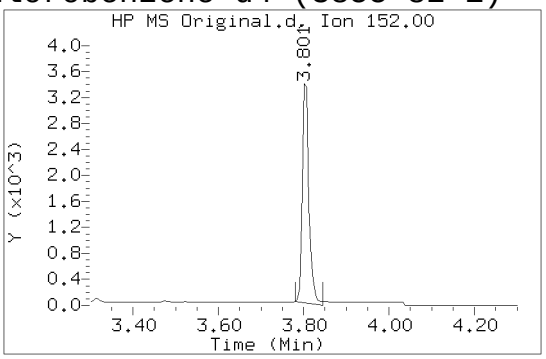


Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\009.D
Inj Date : 10-MAR-2022 12:56
InstruID : SV6.i
LabSampID : 1 4 DX-0.5

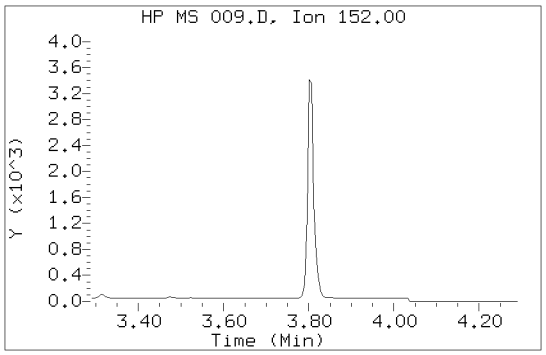
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

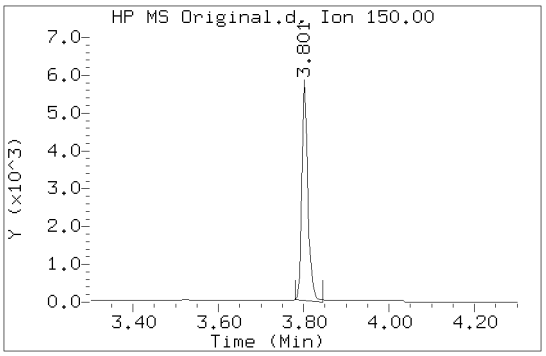
BEFORE
MASS
152
AREA
3578
HEIGHT
3374
25-Aug-2022
16:04
linh
pham



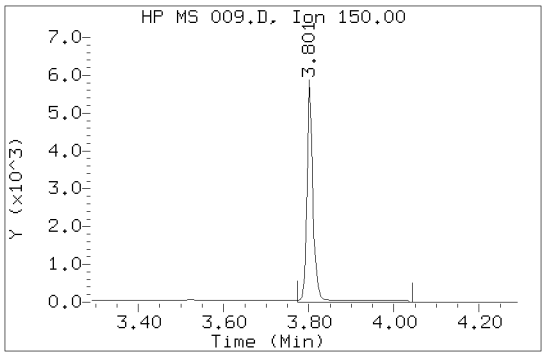
AFTER
MASS
152
AREA
6911
HEIGHT
3414
25-Aug-2022
16:08
linh
pham



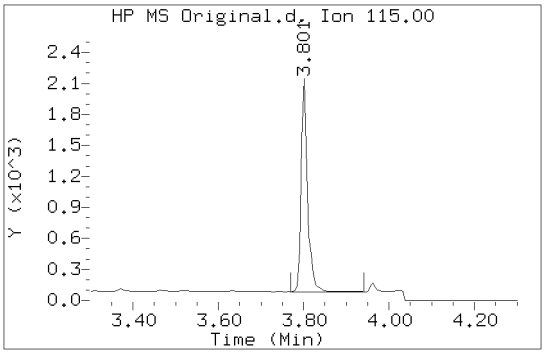
BEFORE
MASS
150
AREA
5548
HEIGHT
5835
25-Aug-2022
16:04
linh
pham



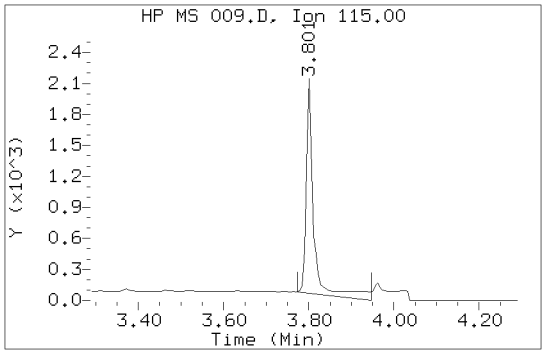
AFTER
MASS
150
AREA
6275
HEIGHT
5877
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
115
AREA
2092
HEIGHT
2063
25-Aug-2022
16:04
linh
pham



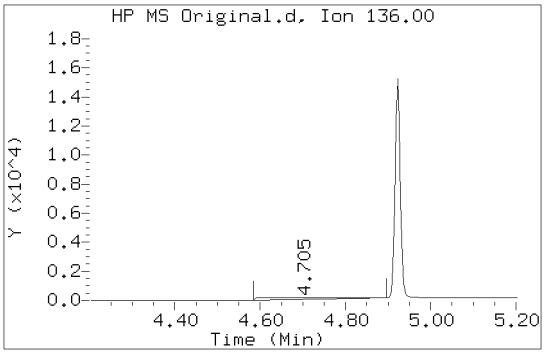
AFTER
MASS
115
AREA
2533
HEIGHT
2075
25-Aug-2022
16:08
linh
pham



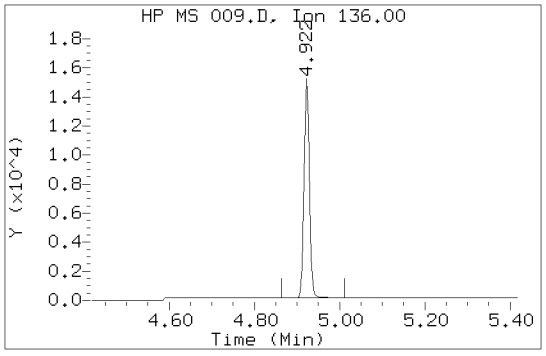
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
1531
HEIGHT
108
25-Aug-2022
16:04
linh
pham



AFTER
MASS
136
AREA
13189
HEIGHT
15077
25-Aug-2022
16:08
linh
pham



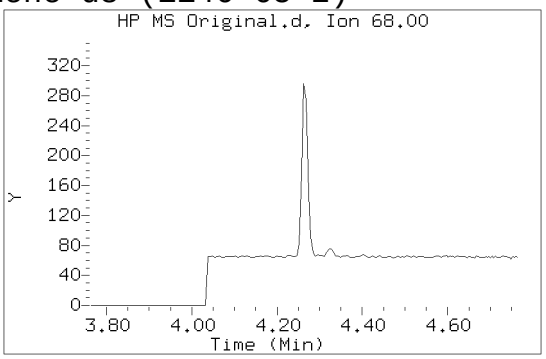
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\009.D
Inj Date : 10-MAR-2022 12:56
InstruID : SV6.i
LabSampID : 1 4 DX-0.5

Naphthalene-d8 (1146-65-2)

Reason Code:

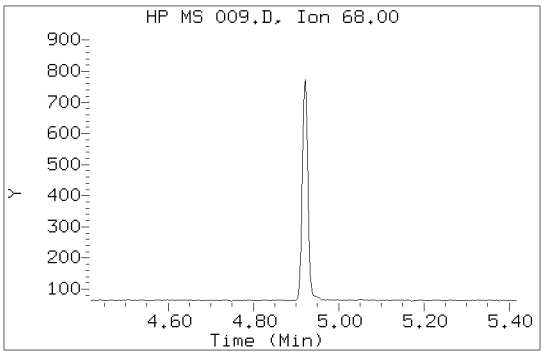
BEFORE

MASS
68
AREA
262
HEIGHT
233
25-Aug-2022
16:04
linh
pham



AFTER

MASS
68
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham

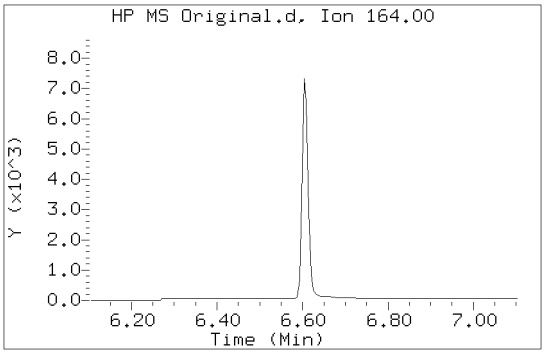


Acenaphthene-d10 (15067-26-2)

Reason Code:

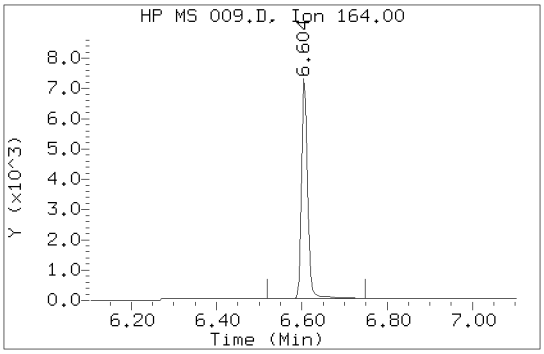
BEFORE

MASS
164
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



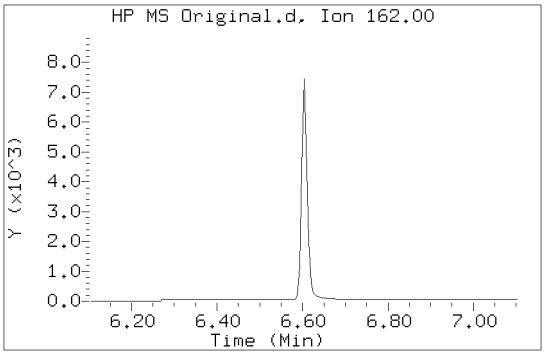
AFTER

MASS
164
AREA
7222
HEIGHT
7257
25-Aug-2022
16:08
linh
pham



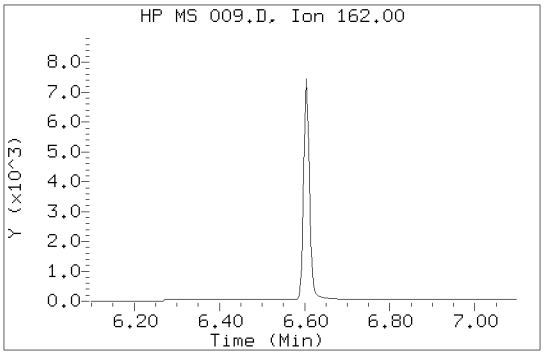
BEFORE

MASS
162
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



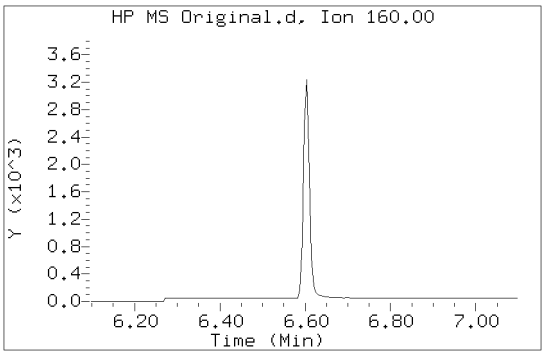
AFTER

MASS
162
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



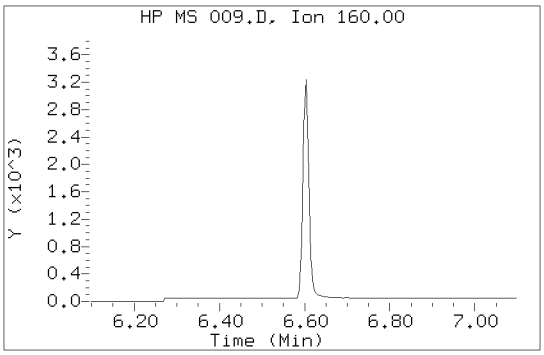
BEFORE

MASS
160
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
160
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



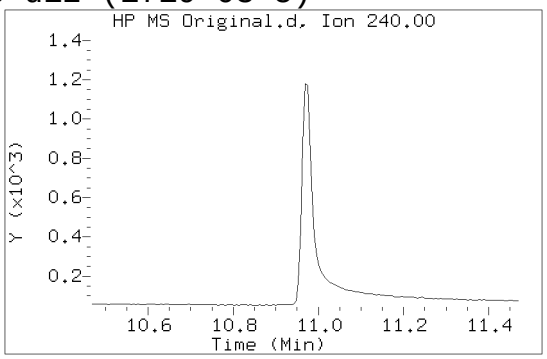
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\009.D
Inj Date : 10-MAR-2022 12:56
InstruID : SV6.i
LabSampID : 1 4 DX-0.5

Chrysene-d12 (1719-03-5)

Reason Code:

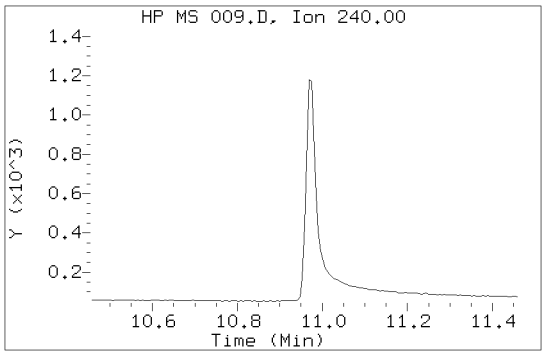
BEFORE

MASS
240
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



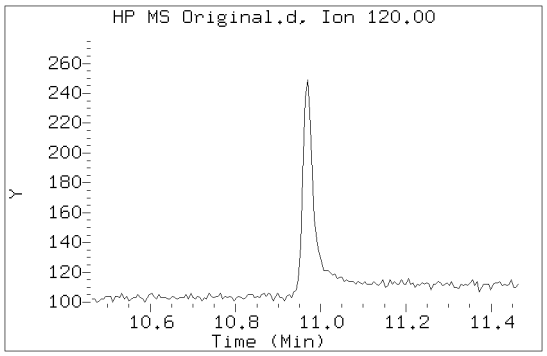
AFTER

MASS
240
AREA
3790
HEIGHT
1133
25-Aug-2022
16:08
linh
pham



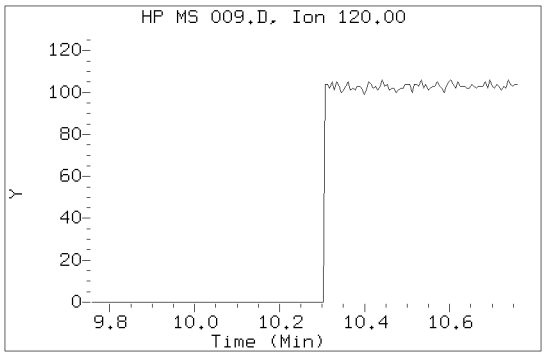
BEFORE

MASS
120
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



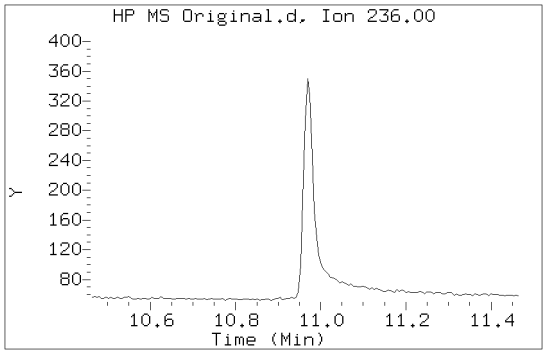
AFTER

MASS
120
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



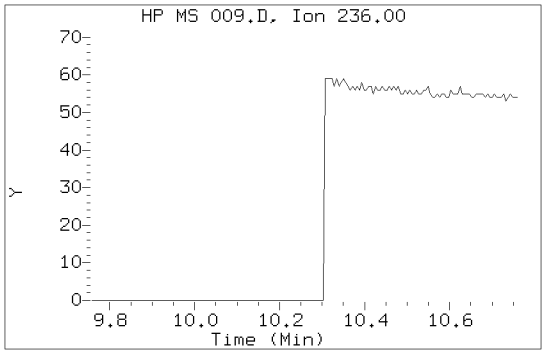
BEFORE

MASS
236
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
236
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham

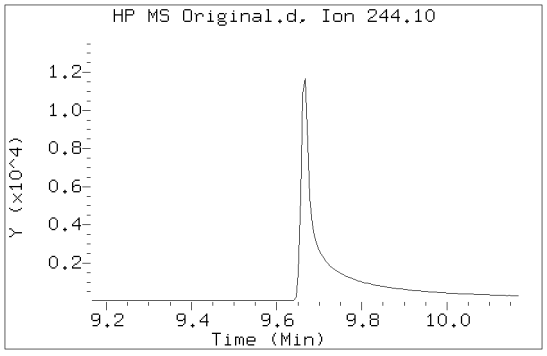


4-Terphenyl-d14 (1718-51-0)

Reason Code:

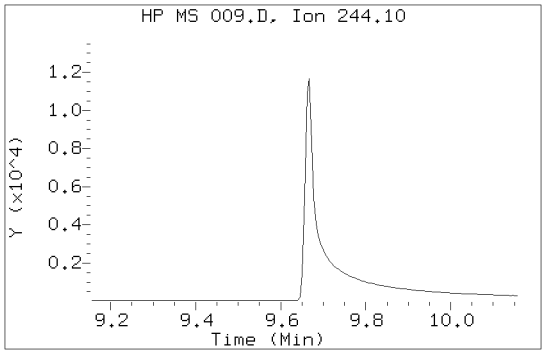
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
244.1
AREA
36357
HEIGHT
11597
25-Aug-2022
16:08
linh
pham

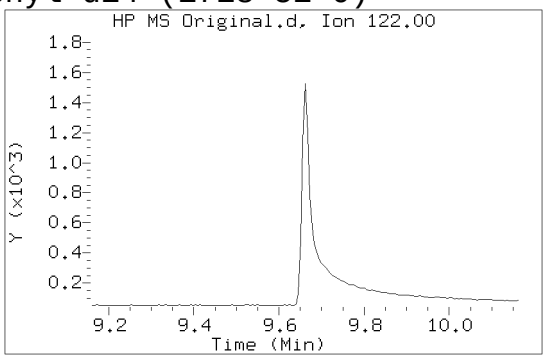


Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\009.D
Inj Date : 10-MAR-2022 12:56
InstruID : SV6.i
LabSampID : 1 4 DX-0.5

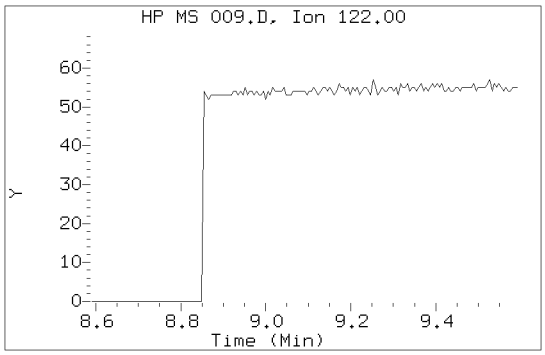
4-Terphenyl-d14 (1718-51-0)

Reason Code:

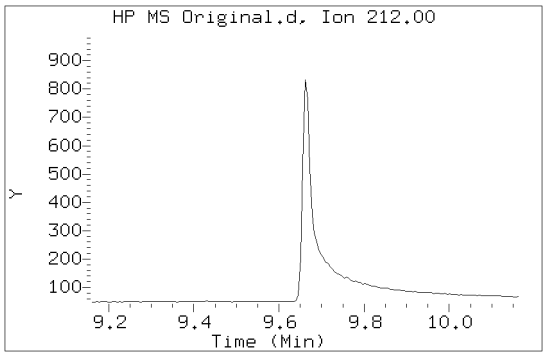
BEFORE
MASS
122
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



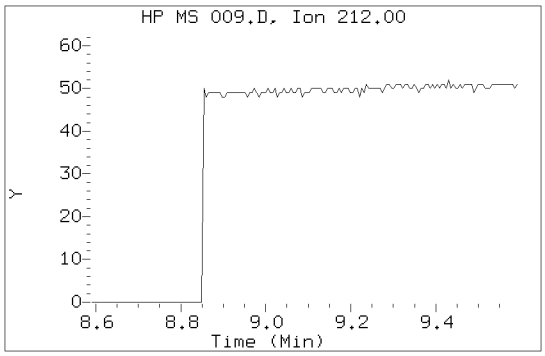
AFTER
MASS
122
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
212
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER
MASS
212
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220310.b\010.D
Lab Smp Id: 1 4 DX-ICV Client Smp ID: 1 4 DX-ICV
Inj Date : 10-MAR-2022 14:15 MS Autotune Date: 09-MAR-2022 11:12
Operator : LG Inst ID: SV6.i
Smp Info : 1 4 DX-ICV;1 4 DX-ICV
Misc Info : ;1;0;1
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220310.b\DXSIM.m
Meth Date : 25-Aug-2022 16:08 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 12:56 Cal File: 009.D
Als bottle: 10 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	3.795	3.801	(1.000)	6142	0.10000	(aM)
* 45 Naphthalene-d8	136	4.922	4.922	(1.000)	16012	0.10000	(M)
$ 33 Nitrobenzene-d5	82	4.262	4.268	(0.866)	4156	0.07786	0.07786(M)
* 86 Acenaphthene-d10	164	6.609	6.603	(1.000)	8780	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.947	5.943	(0.900)	11167	0.08171	0.08171(M)
* 126 Phenanthrene-d10	188	8.064	8.064	(1.000)	15732	0.10000	
* 182 Chrysene-d12	240	10.974	10.969	(1.000)	6319	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.667	9.667	(0.881)	7838	0.06597	0.06597(M)
* 198 Perylene-d12	264	13.101	13.101	(1.000)	4163	0.10000	(M)
1 1,4-Dioxane	58	2.002	2.049	(0.527)	203	0.08051	0.08051(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01141448

Data File: \\NAHSTWS005\Target\chem\SV6.i\220310.b\010.D

Page 1

Date : 10-MAR-2022 14:15

Client ID: 1 4 DX-ICV

Instrument: SV6.i

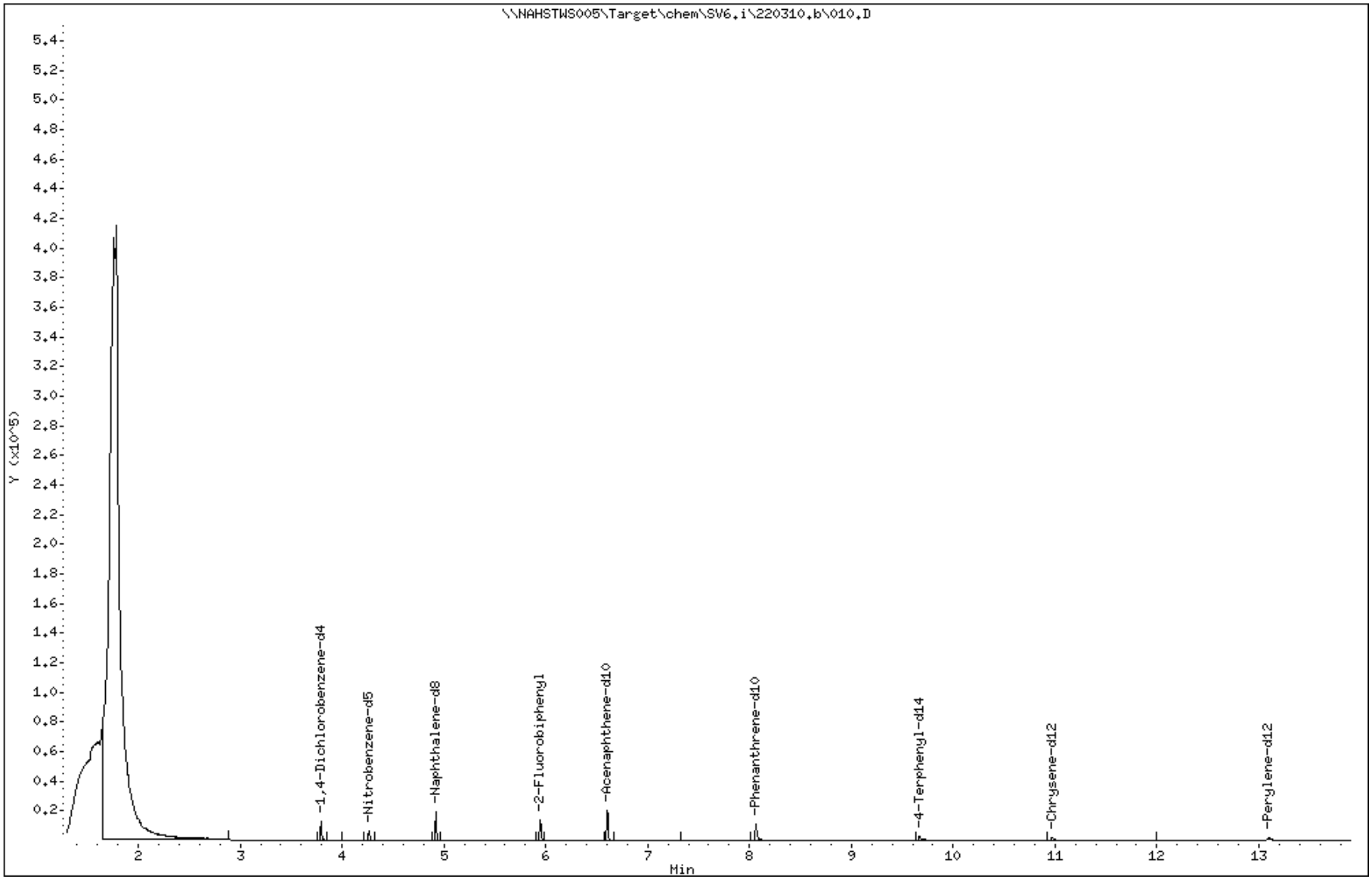
Sample Info: 1 4 DX-ICV;1 4 DX-ICV

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



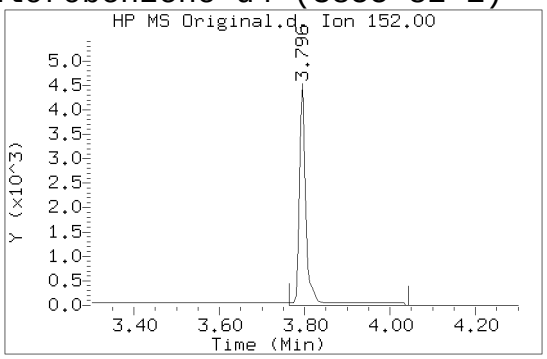
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\010.D
Inj Date : 10-MAR-2022 14:15
InstruID : SV6.i
LabSampID : 1 4 DX-ICV

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

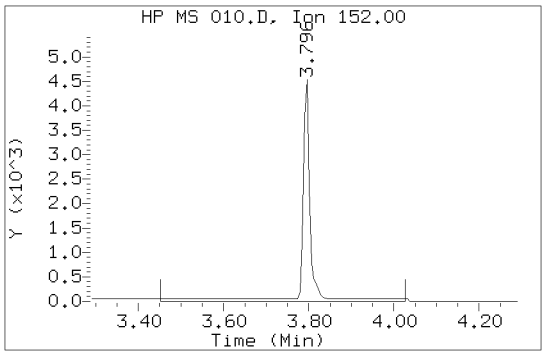
BEFORE

MASS
152
AREA
5222
HEIGHT
4535
25-Aug-2022
16:04
linh
pham



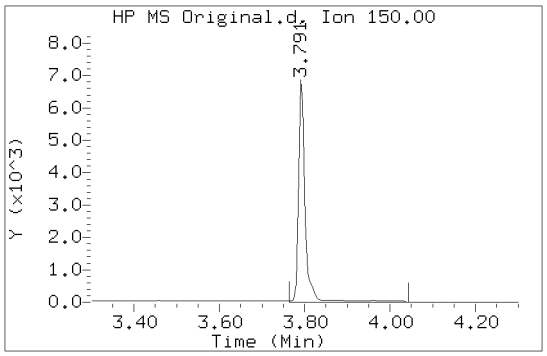
AFTER

MASS
152
AREA
6142
HEIGHT
4535
25-Aug-2022
16:08
linh
pham



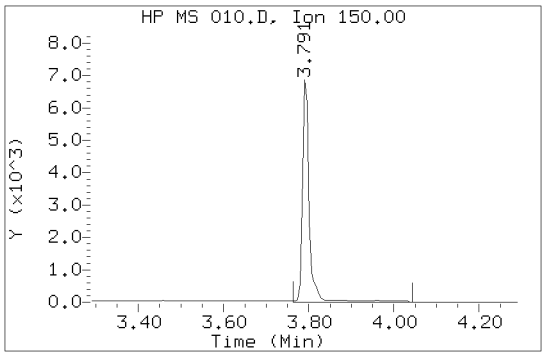
BEFORE

MASS
150
AREA
7641
HEIGHT
6864
25-Aug-2022
16:04
linh
pham



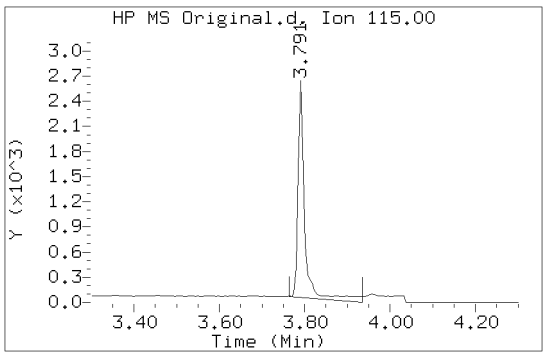
AFTER

MASS
150
AREA
7641
HEIGHT
6864
25-Aug-2022
16:08
linh
pham



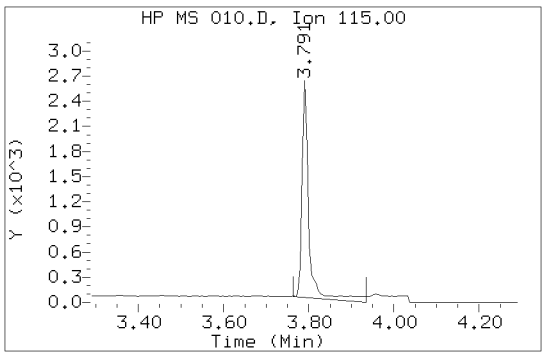
BEFORE

MASS
115
AREA
2822
HEIGHT
2584
25-Aug-2022
16:04
linh
pham



AFTER

MASS
115
AREA
2822
HEIGHT
2584
25-Aug-2022
16:08
linh
pham

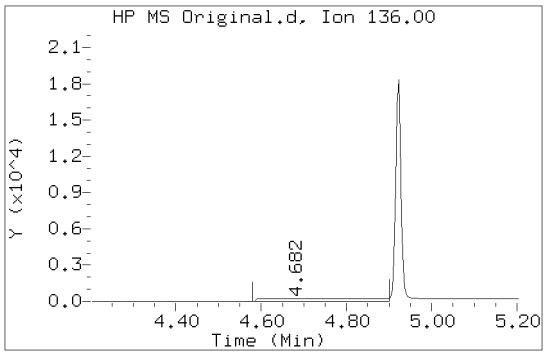


Naphthalene-d8 (1146-65-2)

Reason Code:

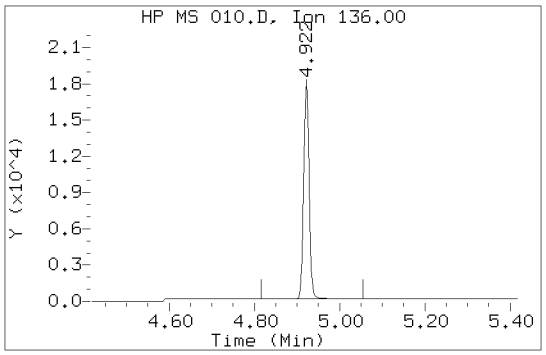
BEFORE

MASS
136
AREA
3810
HEIGHT
208
25-Aug-2022
16:04
linh
pham



AFTER

MASS
136
AREA
16012
HEIGHT
18137
25-Aug-2022
16:08
linh
pham



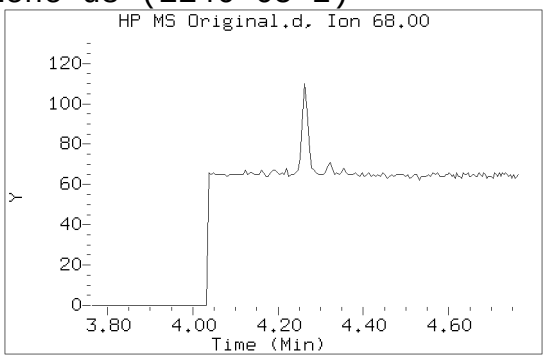
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\010.D
Inj Date : 10-MAR-2022 14:15
InstruID : SV6.i
LabSampID : 1 4 DX-ICV

Naphthalene-d8 (1146-65-2)

Reason Code:

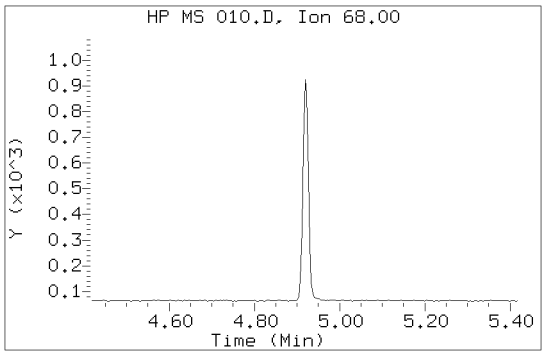
BEFORE

MASS
68
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
68
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham

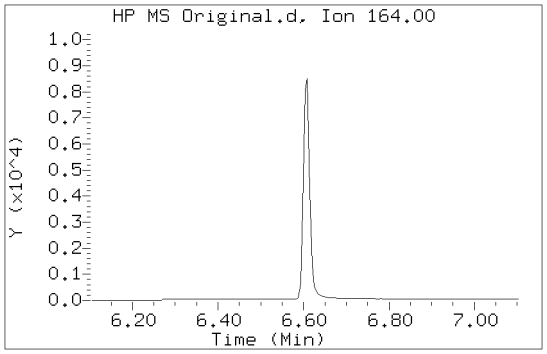


Acenaphthene-d10 (15067-26-2)

Reason Code:

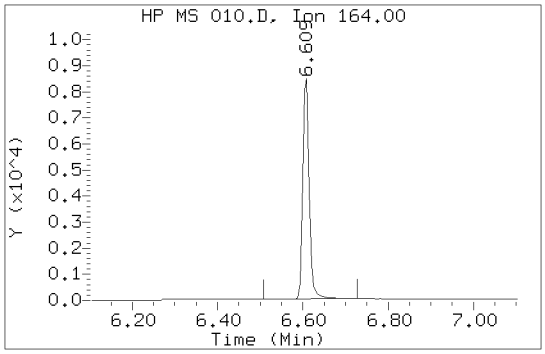
BEFORE

MASS
164
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



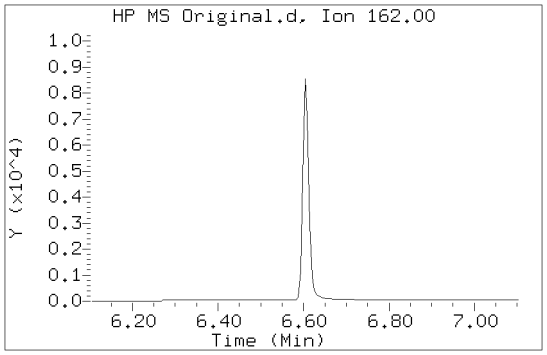
AFTER

MASS
164
AREA
8780
HEIGHT
8443
25-Aug-2022
16:08
linh
pham



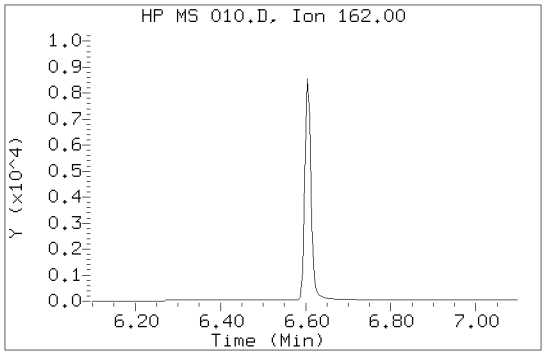
BEFORE

MASS
162
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



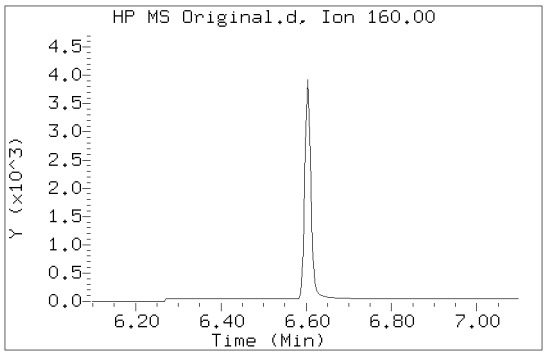
AFTER

MASS
162
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



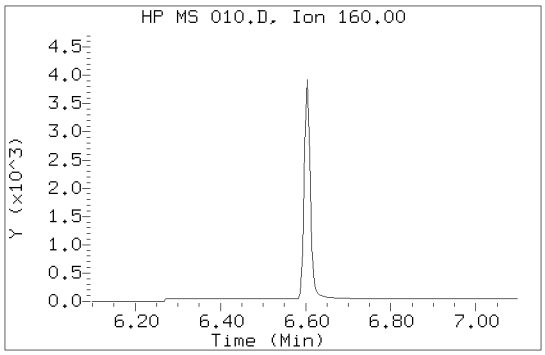
BEFORE

MASS
160
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
160
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



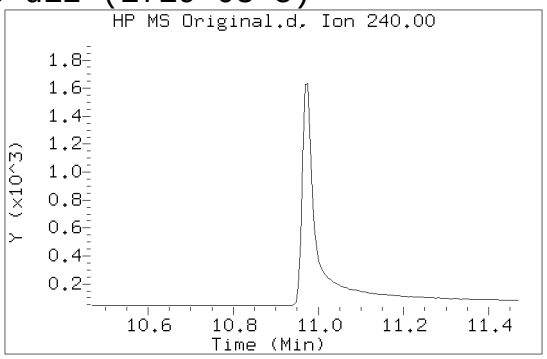
Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\010.D
Inj Date : 10-MAR-2022 14:15
InstruID : SV6.i
LabSampID : 1 4 DX-ICV

Chrysene-d12 (1719-03-5)

Reason Code:

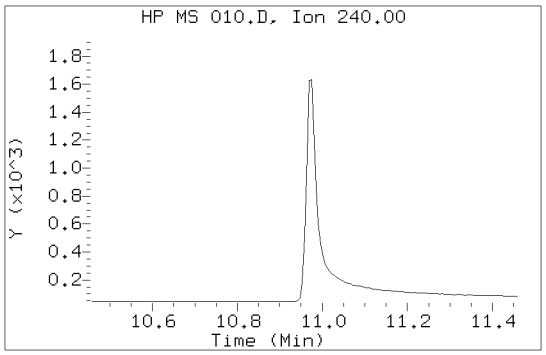
BEFORE

MASS
240
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



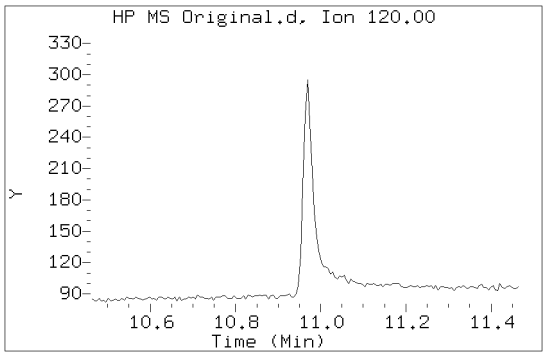
AFTER

MASS
240
AREA
6319
HEIGHT
1596
25-Aug-2022
16:08
linh
pham



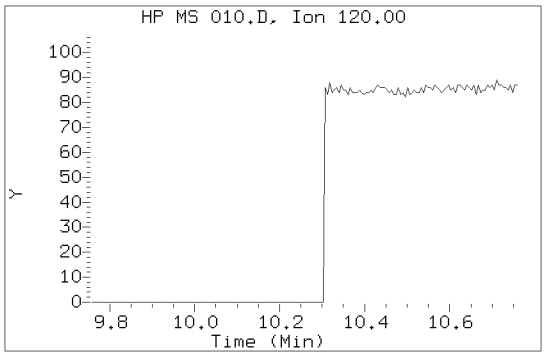
BEFORE

MASS
120
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



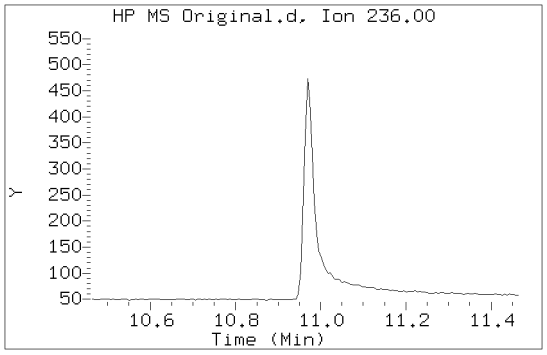
AFTER

MASS
120
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



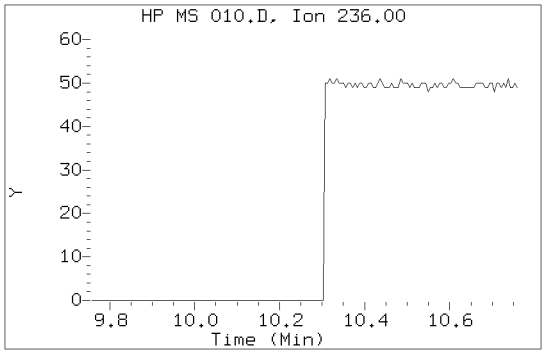
BEFORE

MASS
236
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER

MASS
236
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham

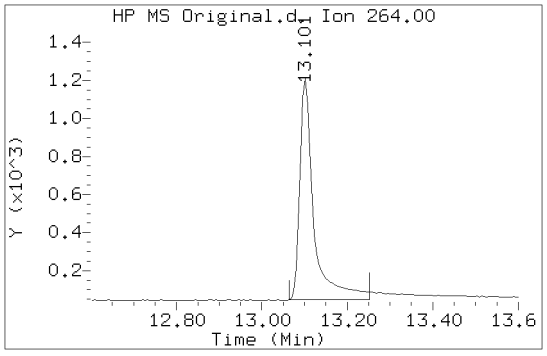


Perylene-d12 (1520-96-3)

Reason Code:

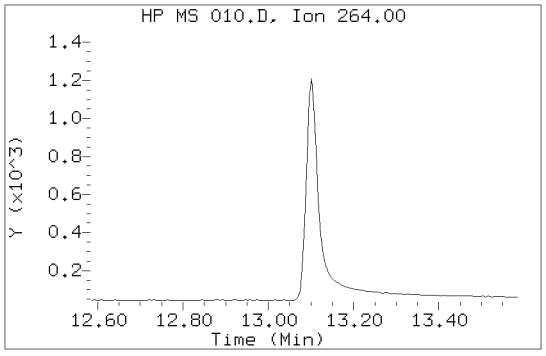
BEFORE

MASS
264
AREA
2659
HEIGHT
1162
25-Aug-2022
16:04
linh
pham



AFTER

MASS
264
AREA
4163
HEIGHT
1174
25-Aug-2022
16:08
linh
pham

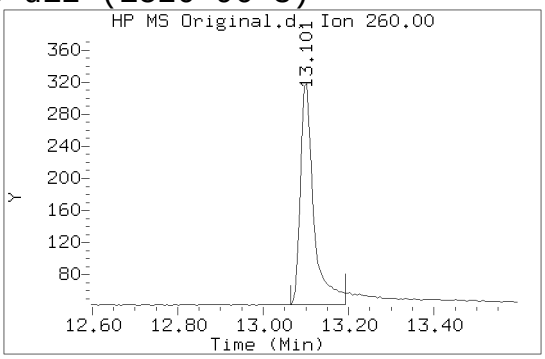


Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\010.D
Inj Date : 10-MAR-2022 14:15
InstruID : SV6.i
LabSampID : 1 4 DX-ICV

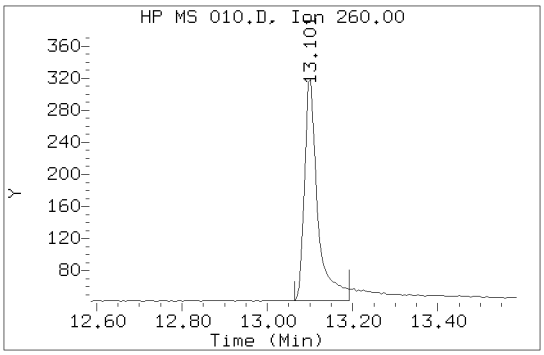
Perylene-d12 (1520-96-3)

Reason Code:

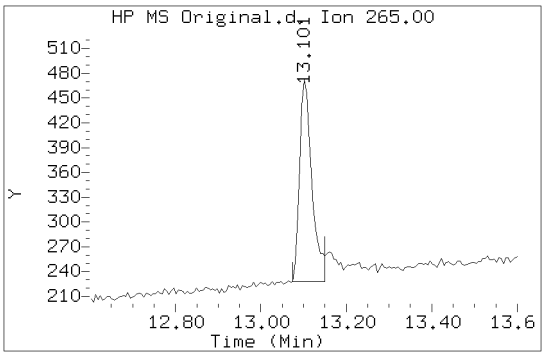
BEFORE
MASS
260
AREA
598
HEIGHT
275
25-Aug-2022
16:04
linh
pham



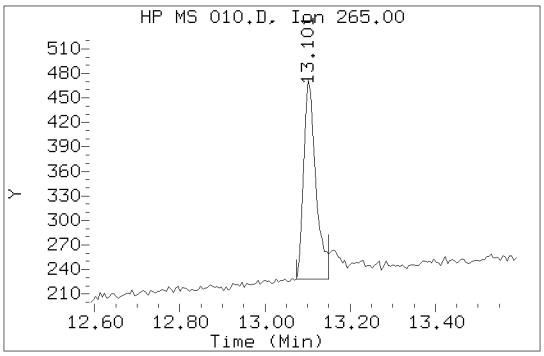
AFTER
MASS
260
AREA
598
HEIGHT
275
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
265
AREA
490
HEIGHT
244
25-Aug-2022
16:04
linh
pham



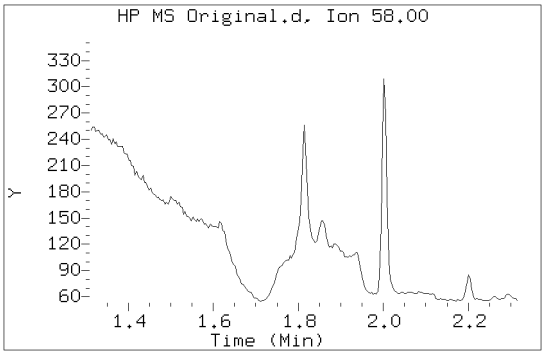
AFTER
MASS
265
AREA
490
HEIGHT
244
25-Aug-2022
16:08
linh
pham



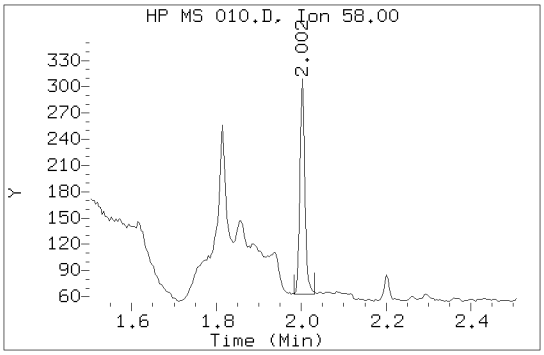
1,4-Dioxane ()

Reason Code:

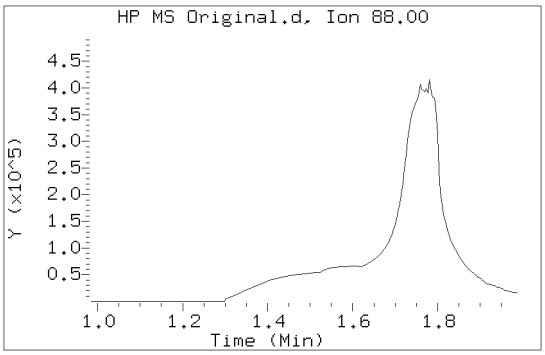
BEFORE
MASS
58
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



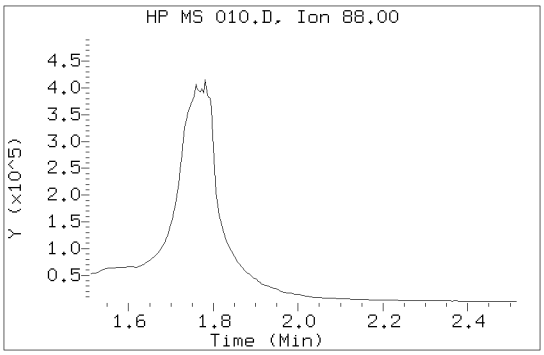
AFTER
MASS
58
AREA
203
HEIGHT
246
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
88
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER
MASS
88
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham

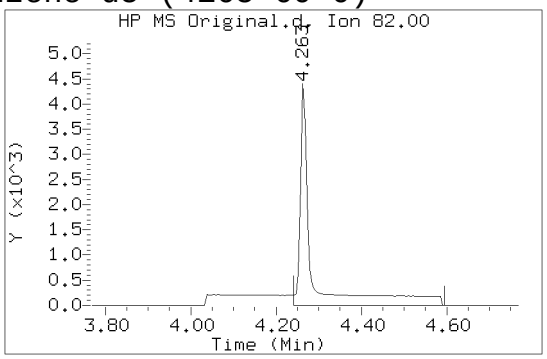


Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\010.D
Inj Date : 10-MAR-2022 14:15
InstruID : SV6.i
LabSampID : 1 4 DX-ICV

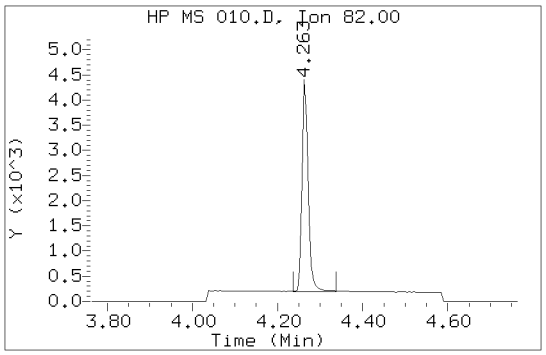
Nitrobenzene-d5 (4165-60-0)

Reason Code:

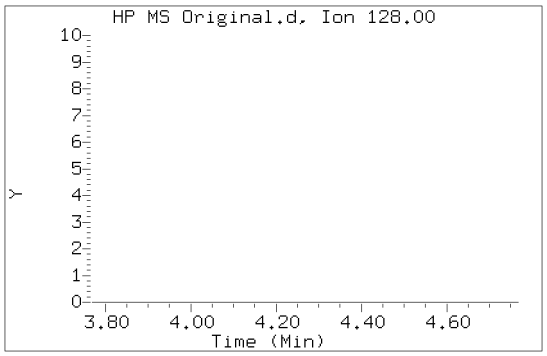
BEFORE
MASS
82
AREA
8115
HEIGHT
4405
25-Aug-2022
16:04
linh
pham



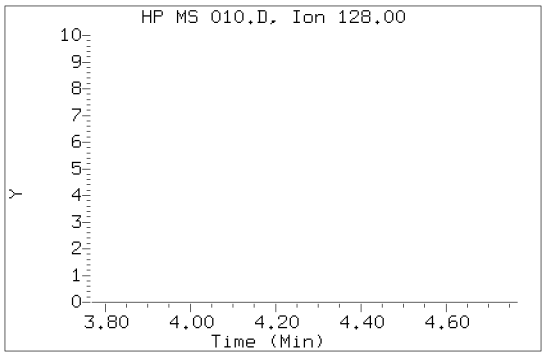
AFTER
MASS
82
AREA
4156
HEIGHT
4208
25-Aug-2022
16:08
linh
pham



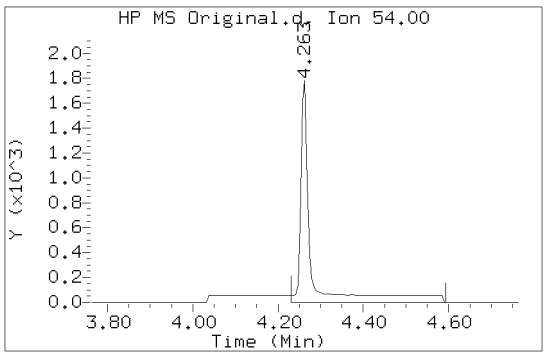
BEFORE
MASS
128
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



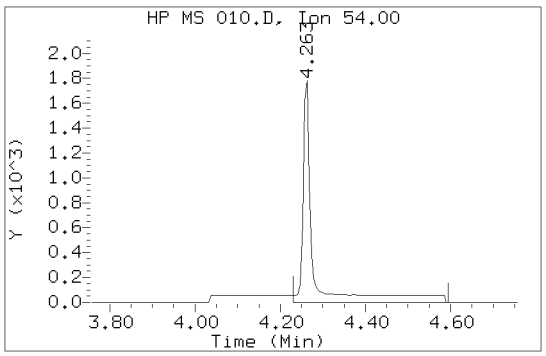
AFTER
MASS
128
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
54
AREA
2997
HEIGHT
1781
25-Aug-2022
16:04
linh
pham



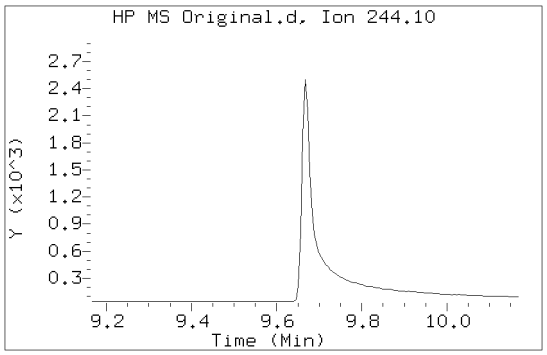
AFTER
MASS
54
AREA
2997
HEIGHT
1781
25-Aug-2022
16:08
linh
pham



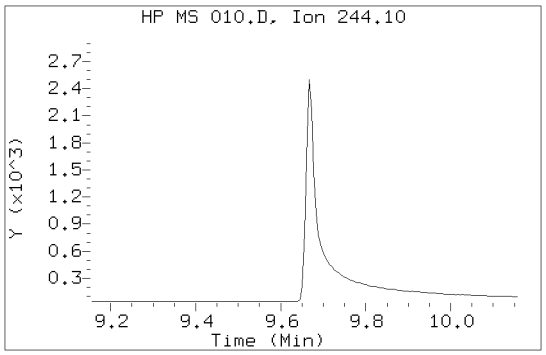
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



AFTER
MASS
244.1
AREA
7838
HEIGHT
2457
25-Aug-2022
16:08
linh
pham

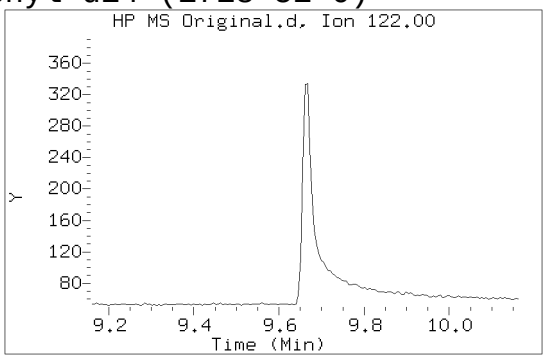


Data File : \\NAHSTWS005\Target\chem\SV6.i\220310.b\010.D
Inj Date : 10-MAR-2022 14:15
InstruID : SV6.i
LabSampID : 1 4 DX-ICV

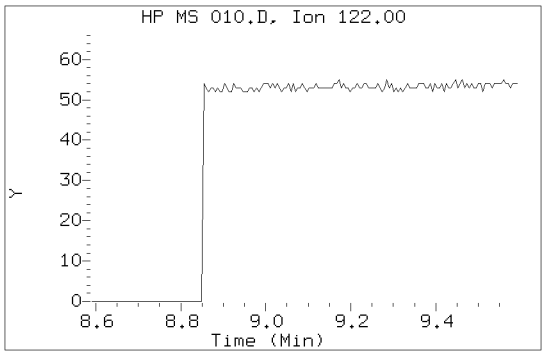
4-Terphenyl-d14 (1718-51-0)

Reason Code:

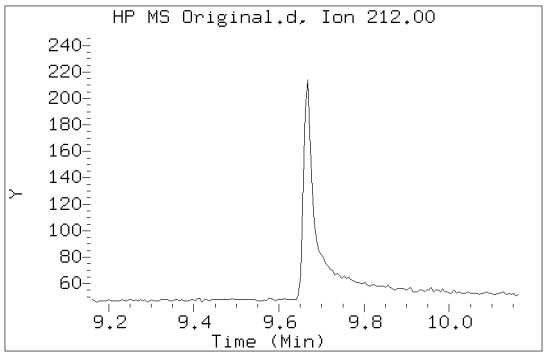
BEFORE
MASS
122
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



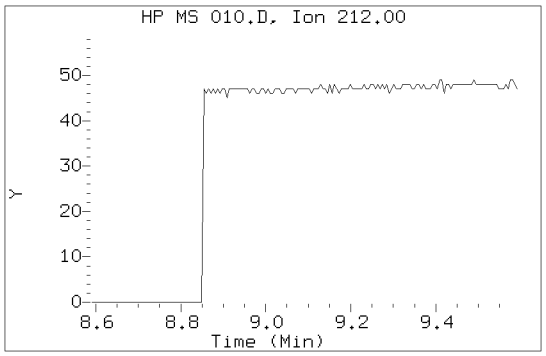
AFTER
MASS
122
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
212
AREA
0
HEIGHT
0
25-Aug-2022
16:04
linh
pham



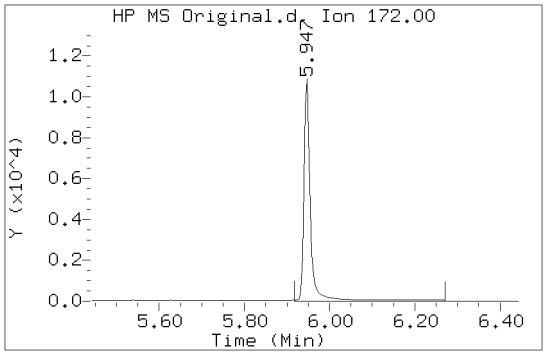
AFTER
MASS
212
AREA
0
HEIGHT
0
25-Aug-2022
16:08
linh
pham



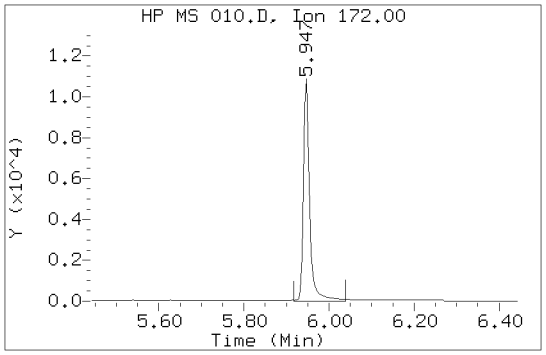
2-Fluorobiphenyl (321-60-8)

Reason Code:

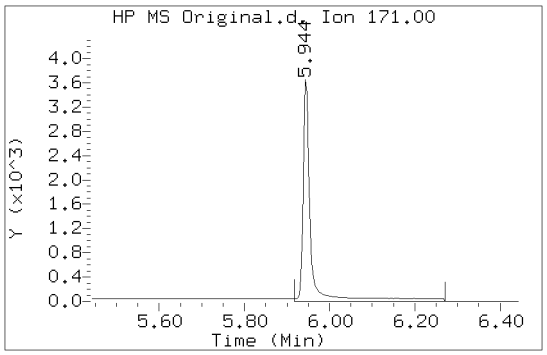
BEFORE
MASS
172
AREA
11965
HEIGHT
10878
25-Aug-2022
16:04
linh
pham



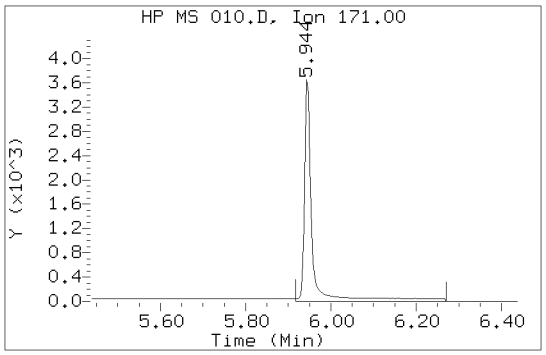
AFTER
MASS
172
AREA
11167
HEIGHT
10878
25-Aug-2022
16:08
linh
pham



BEFORE
MASS
171
AREA
4702
HEIGHT
3651
25-Aug-2022
16:04
linh
pham



AFTER
MASS
171
AREA
4702
HEIGHT
3651
25-Aug-2022
16:08
linh
pham



right solutions.
right partner.

Raw Data SV-6 416162

Workorder

HS22080933

Client

Bhate Environmental Associates, Inc.

Project

LHAAP 18 24

09/08/2022

Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\01.D

Date : 23-AUG-2022 09:33

Client ID: DFTPP

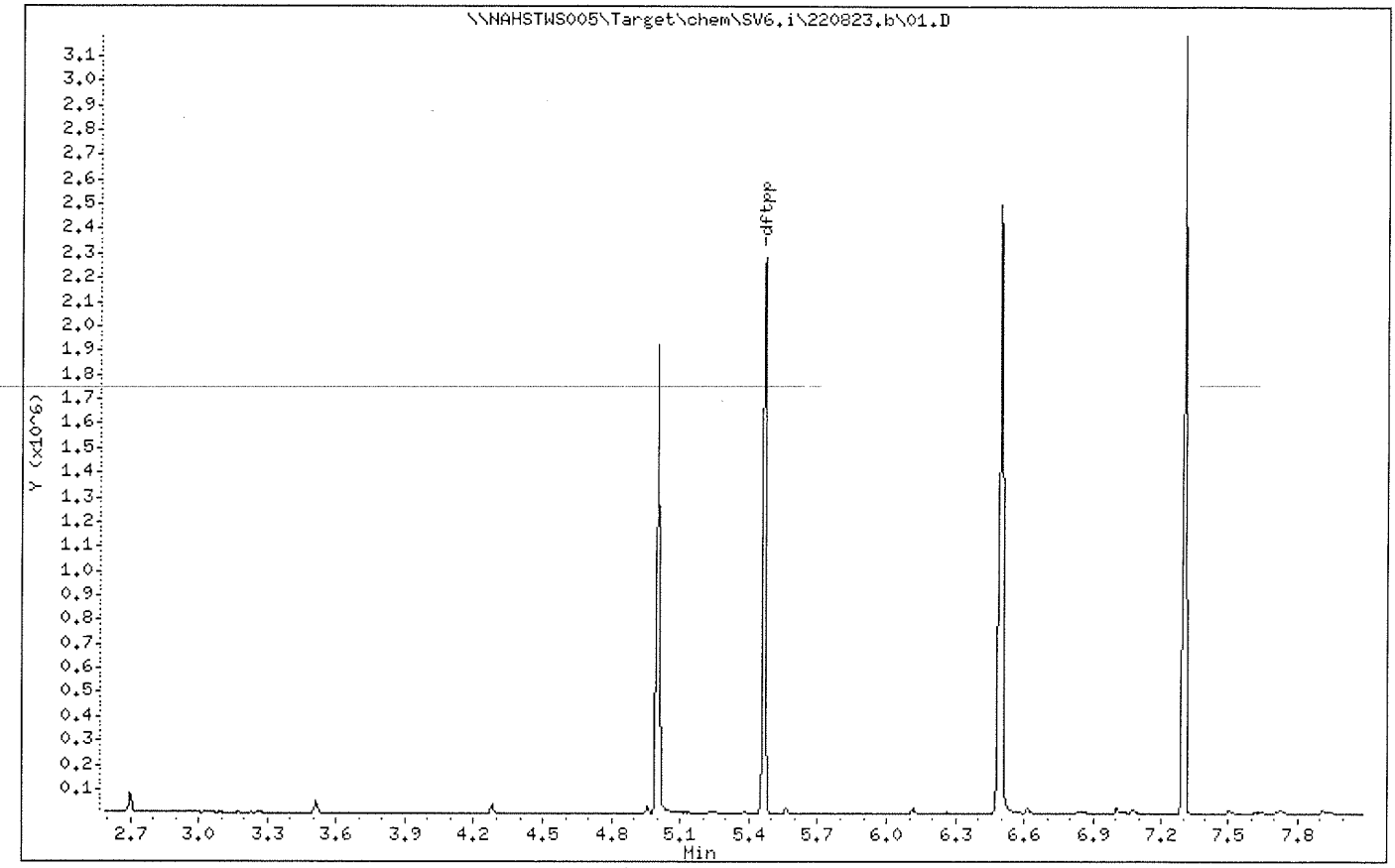
Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\01.D

Date : 23-AUG-2022 09:33

Client ID: DFTPP

Instrument: SV6.i

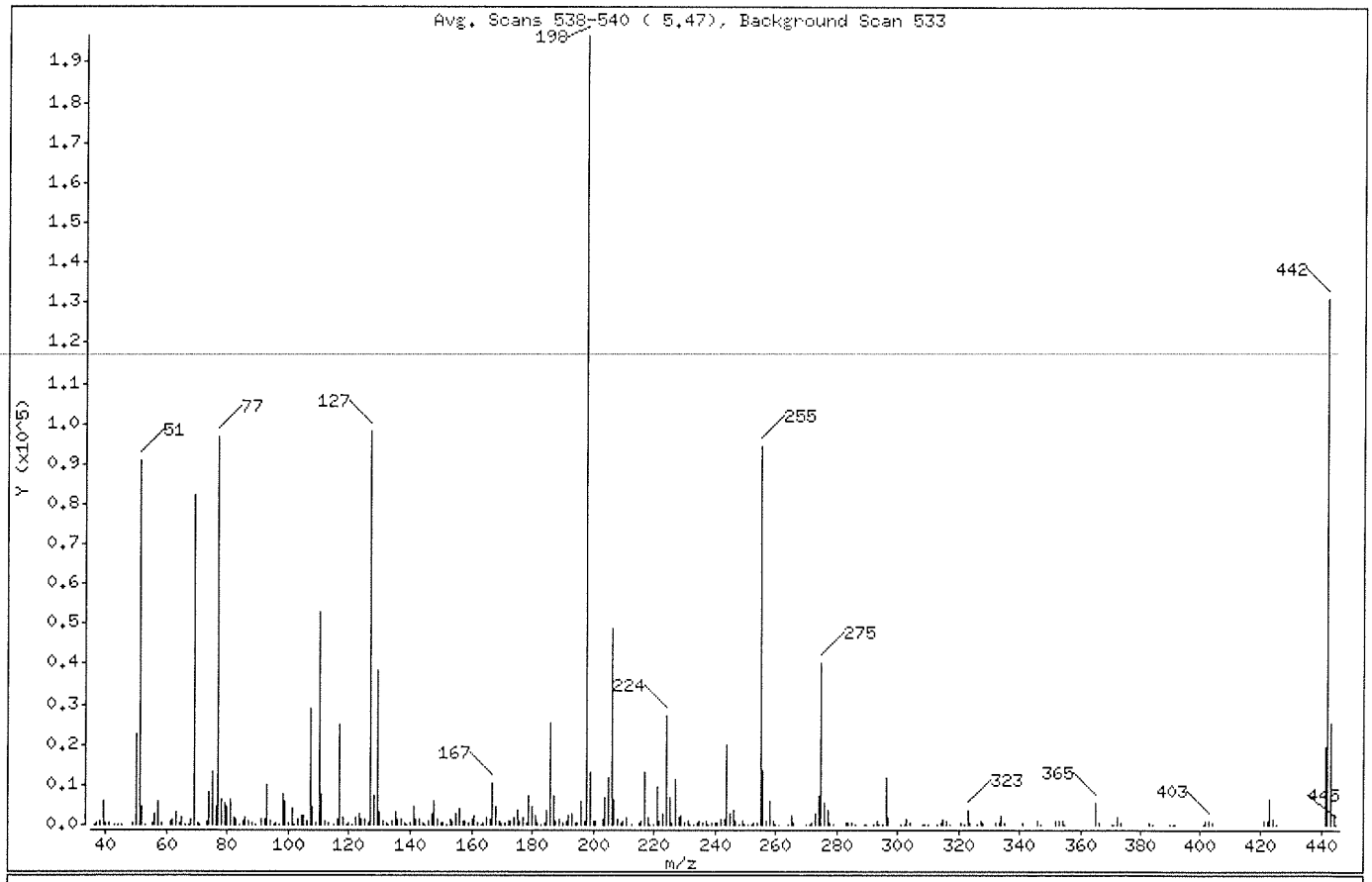
Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	46.31
68	Less than 2.00% of mass 69	0.59 (1.41)
69	Mass 69 relative abundance	41.75
70	Less than 2.00% of mass 69	0.21 (0.50)
127	10.00 - 80.00% of mass 198	49.98
197	Less than 2.00% of mass 198	0.57
199	5.00 - 9.00% of mass 198	6.67
275	10.00 - 60.00% of mass 198	20.40
365	1.00 - 100.00% of mass 198	2.67
441	Present, but less than mass 443	9.93
442	50.00 - 150.00% of mass 198	66.75
443	15.00 - 24.00% of mass 442	12.79 (19.16)

Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\01.D

Date : 23-AUG-2022 09:33

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: Avg. Scans 538-540 (5.47), Background Scan 533
Location of Maximum: 198.00
Number of points: 293

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	71	120.00	367	194.00	571	276.00	5207
37.00	372	121.00	130	195.00	382	277.00	3419
38.00	960	122.00	1761	196.00	5711	278.00	533
39.00	5917	123.00	2799	197.00	1124	279.00	73
40.00	255	124.00	1289	198.00	196544	283.00	423
41.00	231	125.00	1232	199.00	13108	284.00	269
43.00	108	126.00	419	200.00	947	285.00	618
44.00	39	127.00	98240	201.00	865	286.00	53
45.00	175	128.00	7138	203.00	1351	289.00	74
49.00	514	129.00	38368	204.00	6834	290.00	62
50.00	22528	130.00	3289	205.00	11717	292.00	181
51.00	91024	131.00	722	206.00	48912	293.00	793
52.00	4378	132.00	304	207.00	6122	294.00	163
53.00	165	133.00	186	208.00	1503	295.00	184
55.00	409	134.00	1076	209.00	502	296.00	11552
56.00	2576	135.00	3063	210.00	743	297.00	1717
57.00	5964	136.00	1261	211.00	1795	301.00	61
58.00	283	137.00	1357	213.00	117	302.00	165
61.00	1004	138.00	288	215.00	525	303.00	1347
62.00	1170	139.00	171	216.00	1006	304.00	311
63.00	3200	140.00	476	217.00	12913	308.00	144
64.00	399	141.00	4712	218.00	1603	309.00	50
65.00	1631	142.00	1517	219.00	205	310.00	143
66.00	50	143.00	1136	220.00	85	313.00	50
67.00	59	144.00	231	221.00	9563	314.00	539
68.00	1160	145.00	224	222.00	968	315.00	1290
69.00	82048	146.00	753	223.00	2928	316.00	717
70.00	407	147.00	2514	224.00	27192	317.00	70
71.00	53	148.00	5897	225.00	6745	321.00	371
73.00	698	149.00	1148	226.00	662	322.00	175
74.00	8269	150.00	271	227.00	11386	323.00	3679
75.00	12928	151.00	654	228.00	1586	324.00	641
76.00	4546	152.00	184	229.00	2265	326.00	52
77.00	96640	153.00	1528	230.00	291	327.00	713
78.00	6146	154.00	1124	231.00	914	328.00	375

Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\01.D

Date : 23-AUG-2022 09:33

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: Avg. Scans 538-540 (5.47), Background Scan 533

Location of Maximum: 198.00

Number of points: 293

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.00	5514	155.00	2645	232.00	154	332.00	231
80.00	4336	156.00	3901	233.00	189	333.00	376
81.00	6503	157.00	781	234.00	656	334.00	2328
82.00	1587	158.00	741	235.00	826	335.00	529
83.00	1517	159.00	561	236.00	538	341.00	419
84.00	96	160.00	1544	237.00	818	346.00	805
85.00	1077	161.00	2254	238.00	50	347.00	60
86.00	1653	162.00	567	239.00	405	352.00	1074
87.00	800	163.00	170	240.00	272	353.00	737
88.00	342	164.00	237	241.00	537	354.00	1105
89.00	139	165.00	1758	242.00	1366	355.00	152
91.00	1388	166.00	1375	243.00	1287	365.00	5245
92.00	1550	167.00	10546	244.00	19952	366.00	653
93.00	10129	168.00	4441	245.00	2596	370.00	70
94.00	705	169.00	739	246.00	3797	371.00	202
95.00	189	170.00	245	247.00	784	372.00	1775
96.00	478	171.00	397	248.00	153	373.00	451
97.00	185	172.00	871	249.00	696	383.00	558
98.00	7864	173.00	1122	250.00	147	384.00	62
99.00	5741	174.00	1950	251.00	183	390.00	200
100.00	511	175.00	3761	252.00	220	391.00	83
101.00	3864	176.00	1080	253.00	448	392.00	62
102.00	186	177.00	1712	254.00	672	401.00	56
103.00	1159	178.00	554	255.00	94248	402.00	786
104.00	2188	179.00	7321	256.00	13638	403.00	1053
105.00	2068	180.00	4741	257.00	971	404.00	346
106.00	727	181.00	2356	258.00	5933	421.00	862
107.00	28824	182.00	322	259.00	870	422.00	835
108.00	4345	183.00	172	260.00	137	423.00	6425
109.00	644	184.00	516	261.00	153	424.00	1207
110.00	52784	185.00	3436	264.00	214	425.00	51
111.00	7830	186.00	25456	265.00	2398	441.00	19512
112.00	966	187.00	7025	266.00	469	442.00	131200
113.00	302	188.00	711	270.00	72	443.00	25136
115.00	50	189.00	1539	271.00	199	444.00	2181

Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\01.D

Date : 23-AUG-2022 09:33

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: Avg. Scans 538-540 (5.47), Background Scan 533
Location of Maximum: 198.00
Number of points: 293

m/z	Y	m/z	Y	m/z	Y	m/z	Y
116.00	1474	190.00	266	272.00	257	445.00	58
117.00	24712	191.00	688	273.00	2833		
118.00	1761	192.00	2347	274.00	7258		
119.00	199	193.00	2642	275.00	40104		

Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\03.D Page 1
Report Date: 25-Aug-2022 16:19

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220823.b\03.D
Lab Smp Id: 1 4DIOX-CCV Client Smp ID: 1 4DIOX-CCV
Inj Date : 23-AUG-2022 10:31
Operator : LG Inst ID: SV6.i
Smp Info : 1 4DIOX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220823.b\DXSIM.m
Meth Date : 25-Aug-2022 16:19 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 12:56 Cal File: 009.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)	
* 20 1,4-Dichlorobenzene-d4	152	3.592	3.592	(1.000)	6003	0.10000		(aM)
* 45 Naphthalene-d8	136	4.705	4.705	(1.000)	15829	0.10000		(M)
$ 33 Nitrobenzene-d5	82	4.059	4.059	(0.863)	3958	0.08000	0.07501	(QM)
* 86 Acenaphthene-d10	164	6.376	6.376	(1.000)	7005	0.10000		(QM)
$ 69 2-Fluorobiphenyl	172	5.718	5.718	(0.897)	8702	0.08000	0.07981	(M)
* 126 Phenanthrene-d10	188	7.827	7.827	(1.000)	17339	0.10000		(M)
* 182 Chrysene-d12	240	10.657	10.657	(1.000)	7501	0.10000		(M)
$ 158 4-Terphenyl-d14	244	9.408	9.408	(0.883)	10691	0.08000	0.07581	(M)
* 198 Perylene-d12	264	12.724	12.724	(1.000)	5111	0.10000		
1 1,4-Dioxane	58	1.887	1.887	(0.525)	213	0.08000	0.08643	(aQM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

01141462

Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\03.D

Date : 23-AUG-2022 10:31

Client ID: 1 4DIOX-CCV

Sample Info: 1 4DIOX-0.08

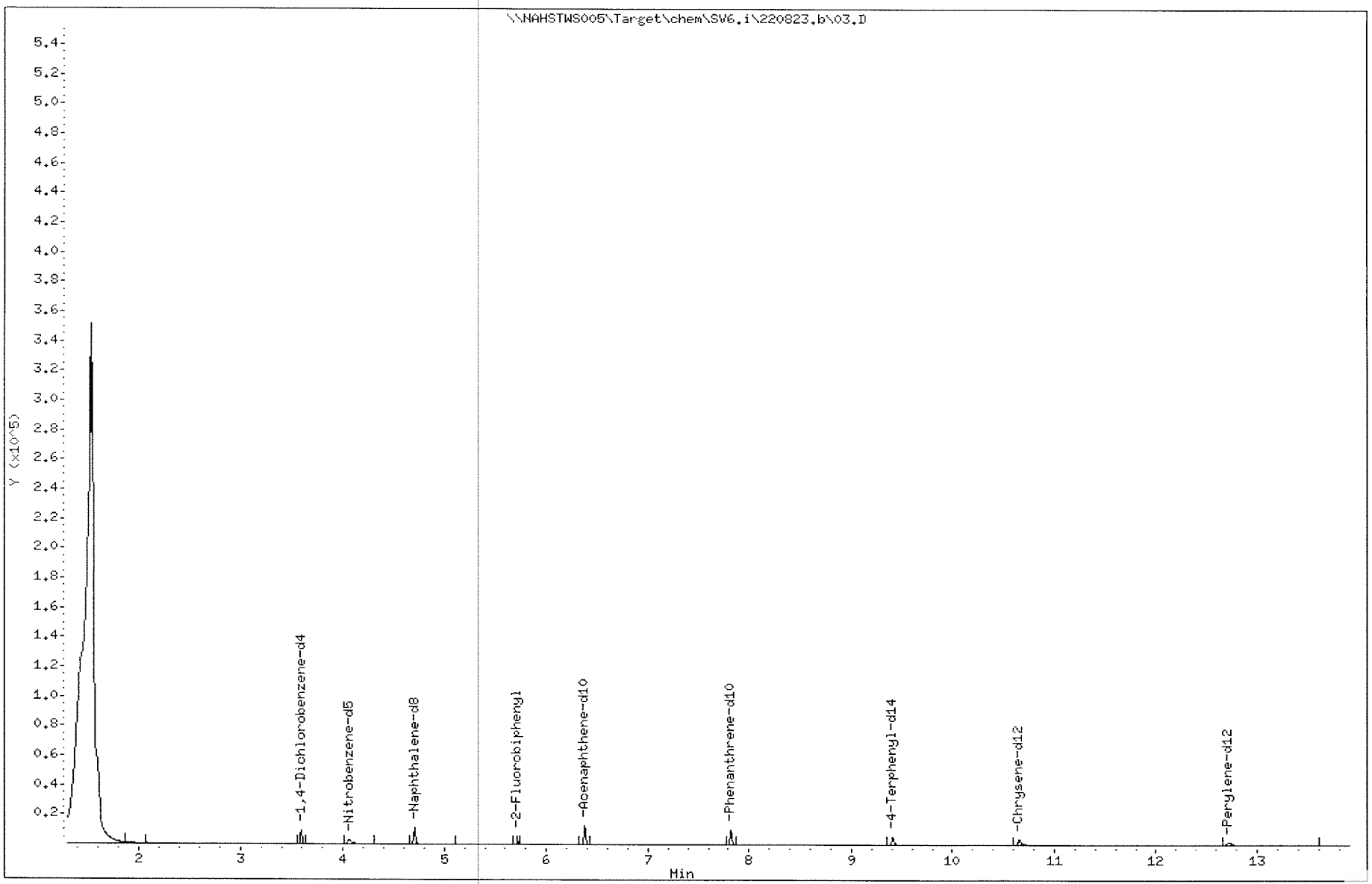
Purge Volume: 1000.0

Column phase: RTX-5SIL MS

Instrument: SV6.i

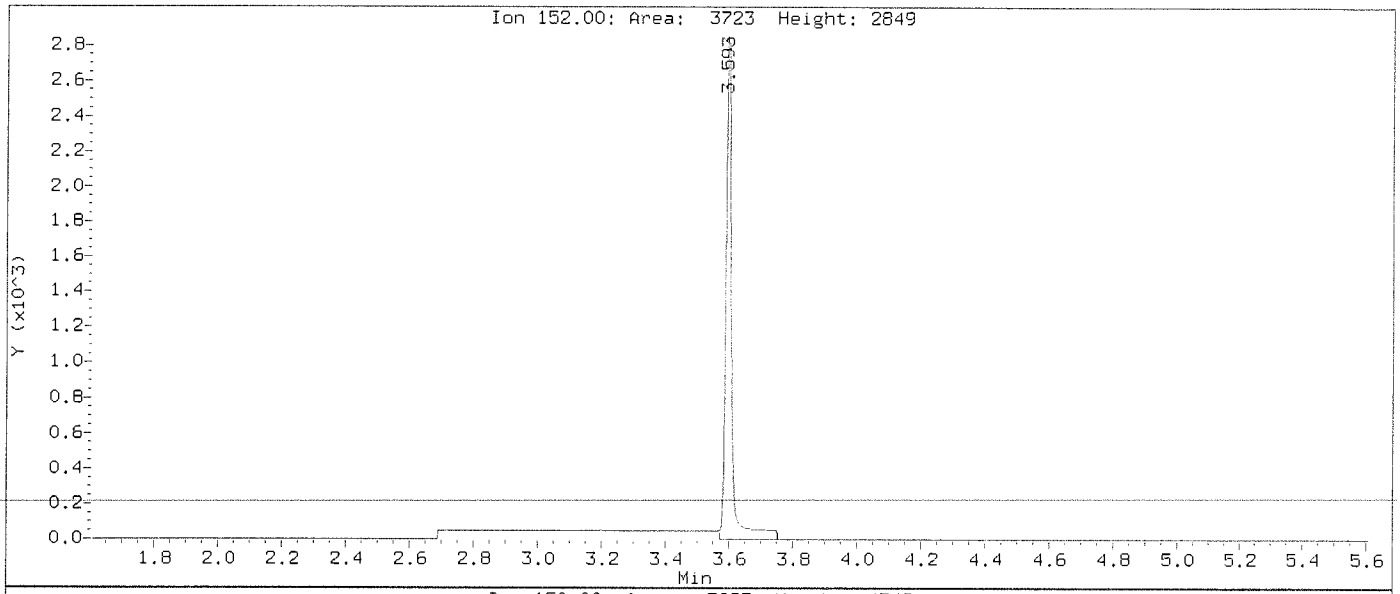
Operator: LG

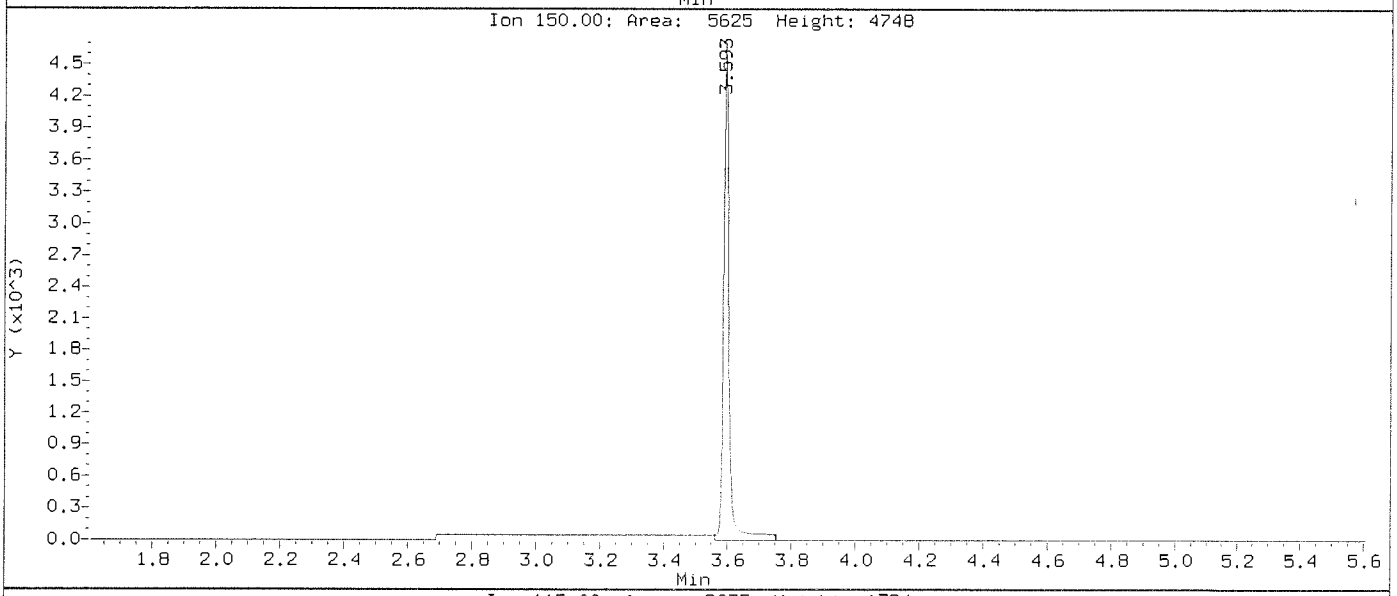
Column diameter: 0.28

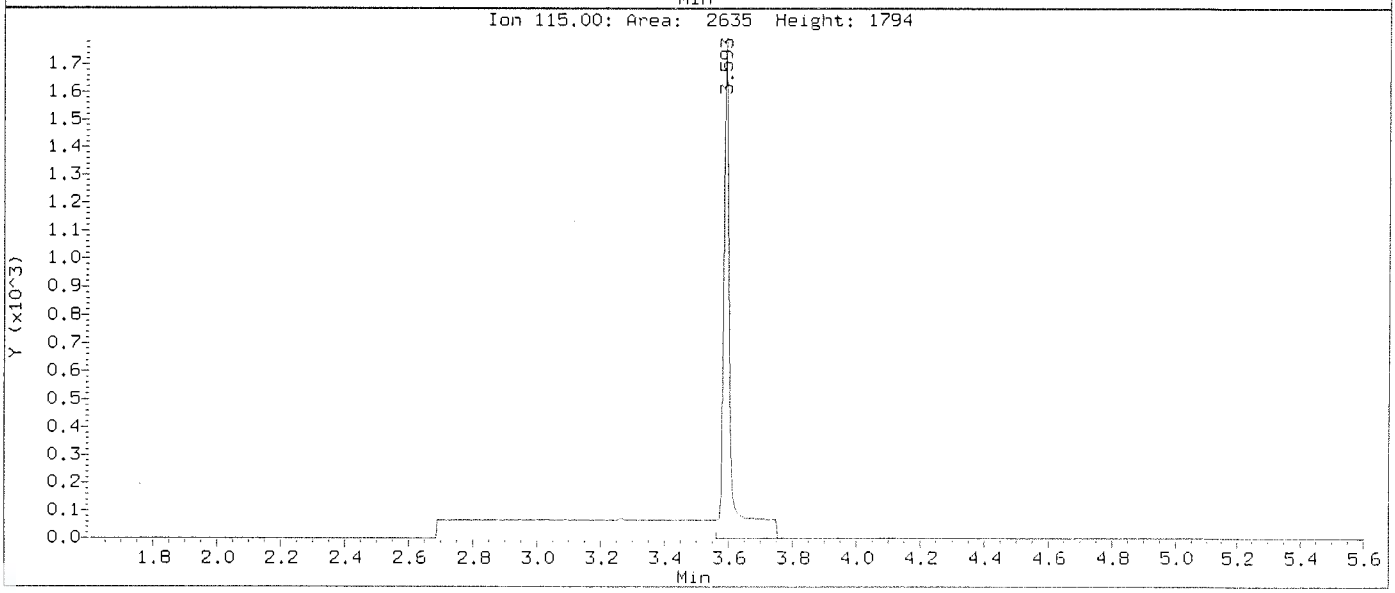


Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\Before\03.D
Injection Date: 23-AUG-2022 10:31
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

Compound: 1,4-Dichlorobenzene-d4
CAS Number: 3855-82-1

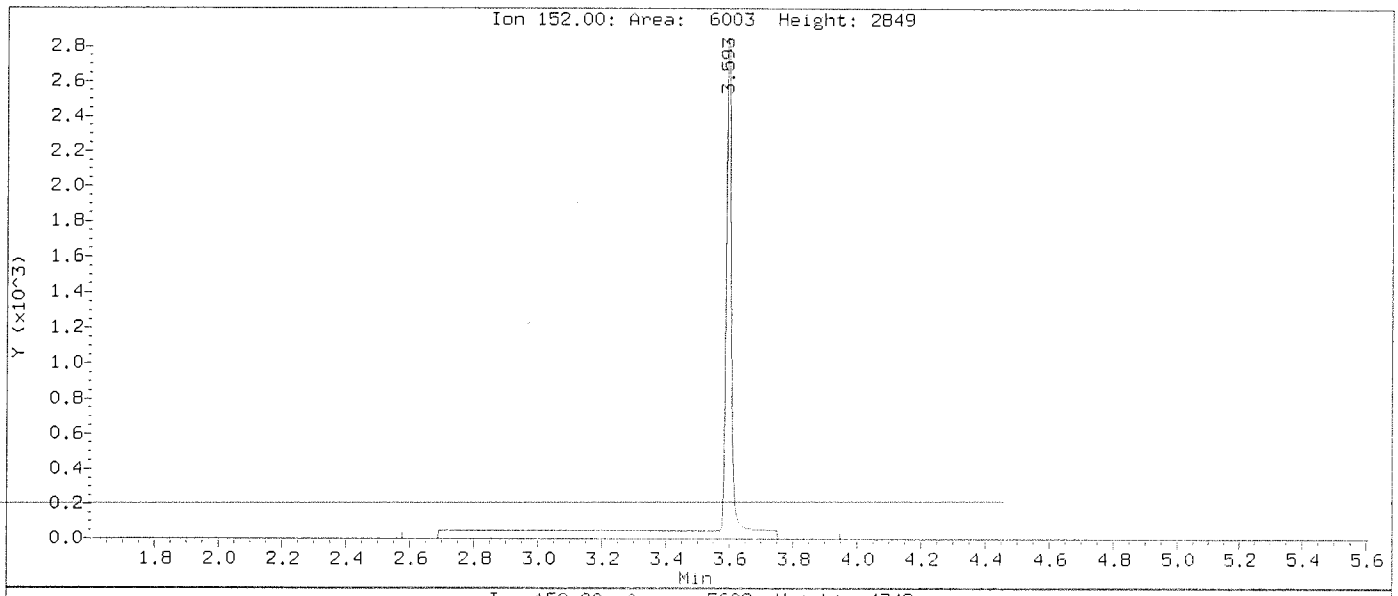


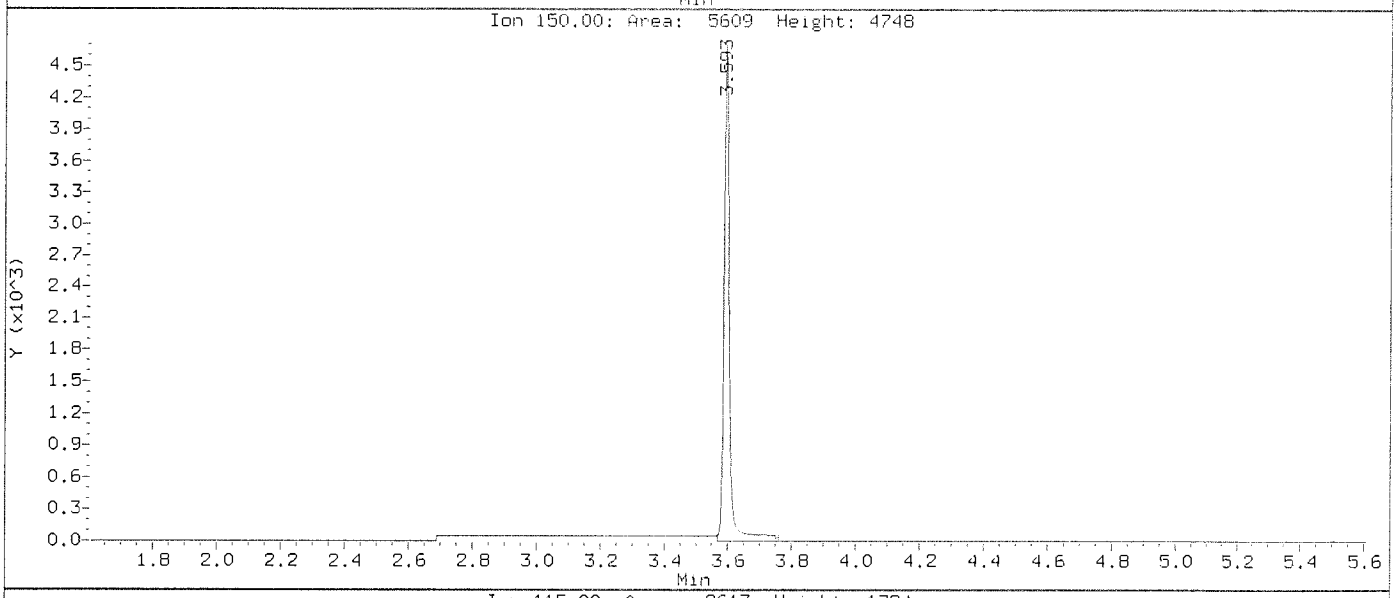


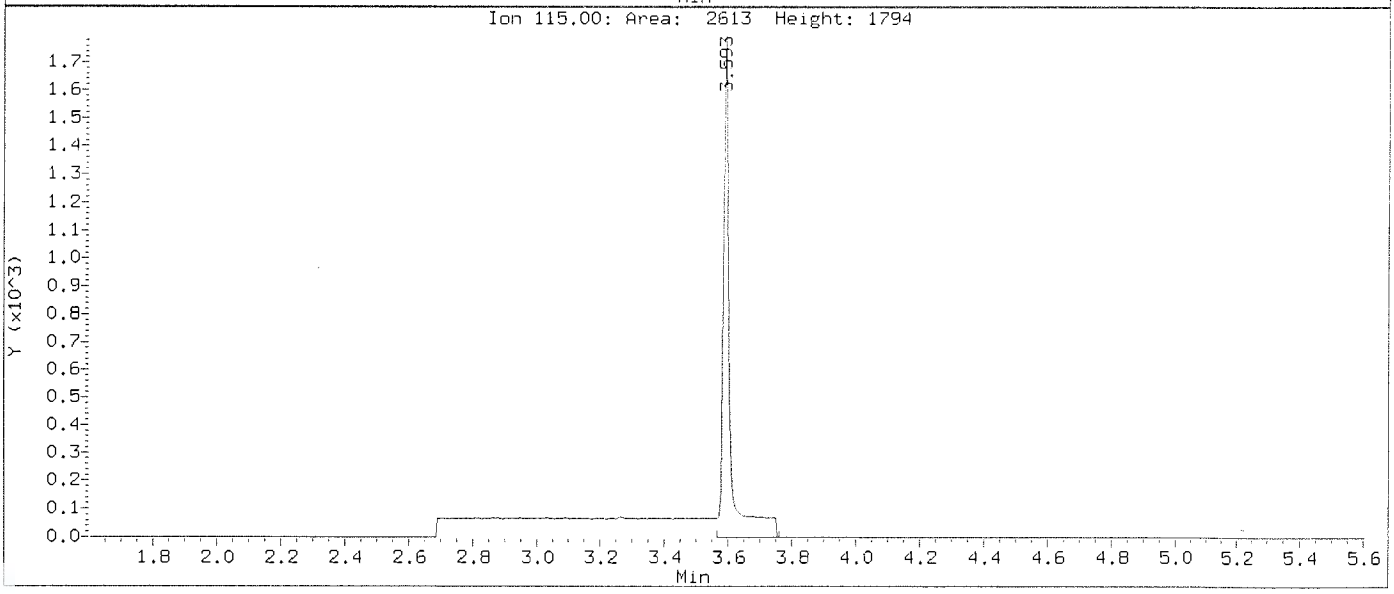


Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\03.D
Injection Date: 23-AUG-2022 10:31
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

Compound: 1,4-Dichlorobenzene-d4
CAS Number: 3855-82-1

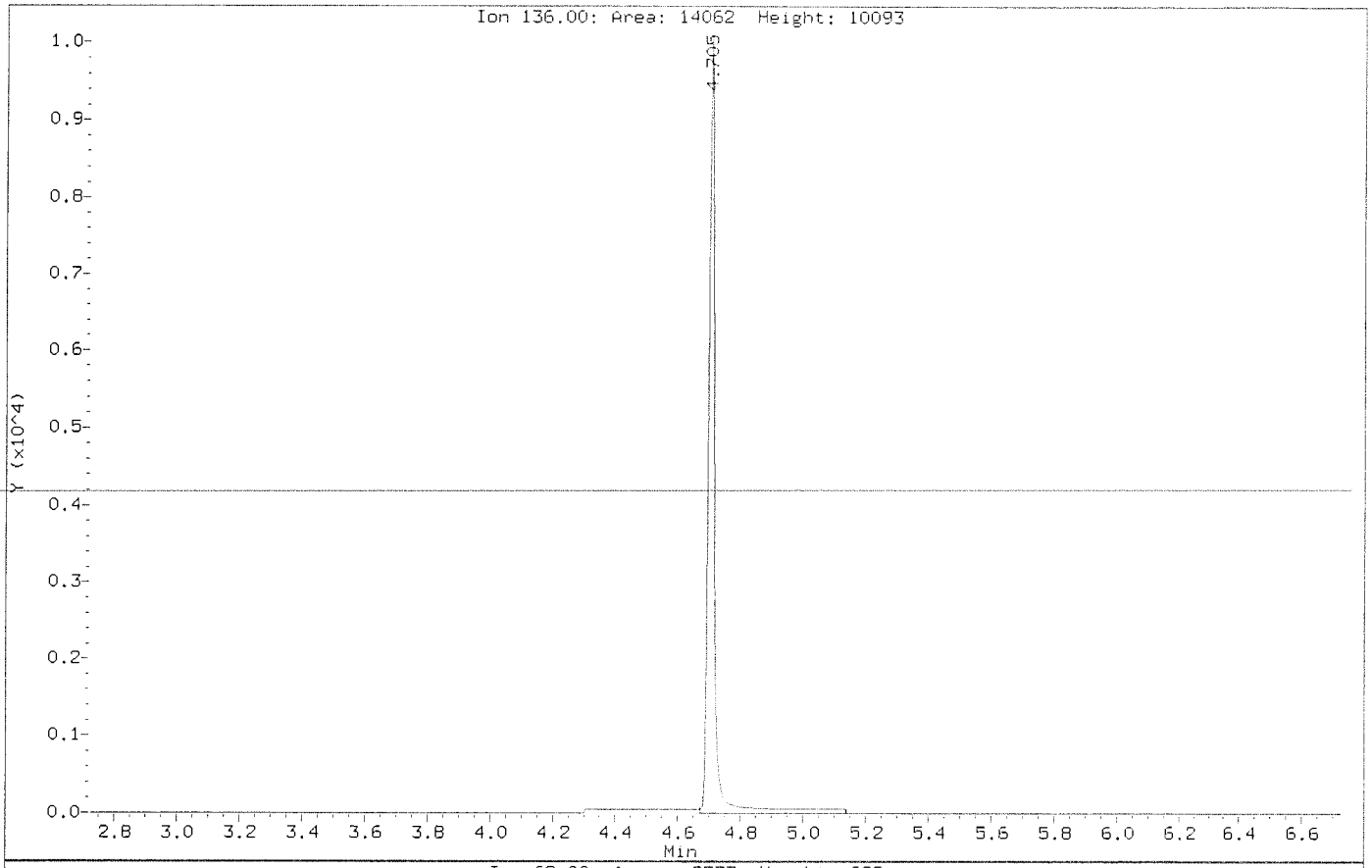


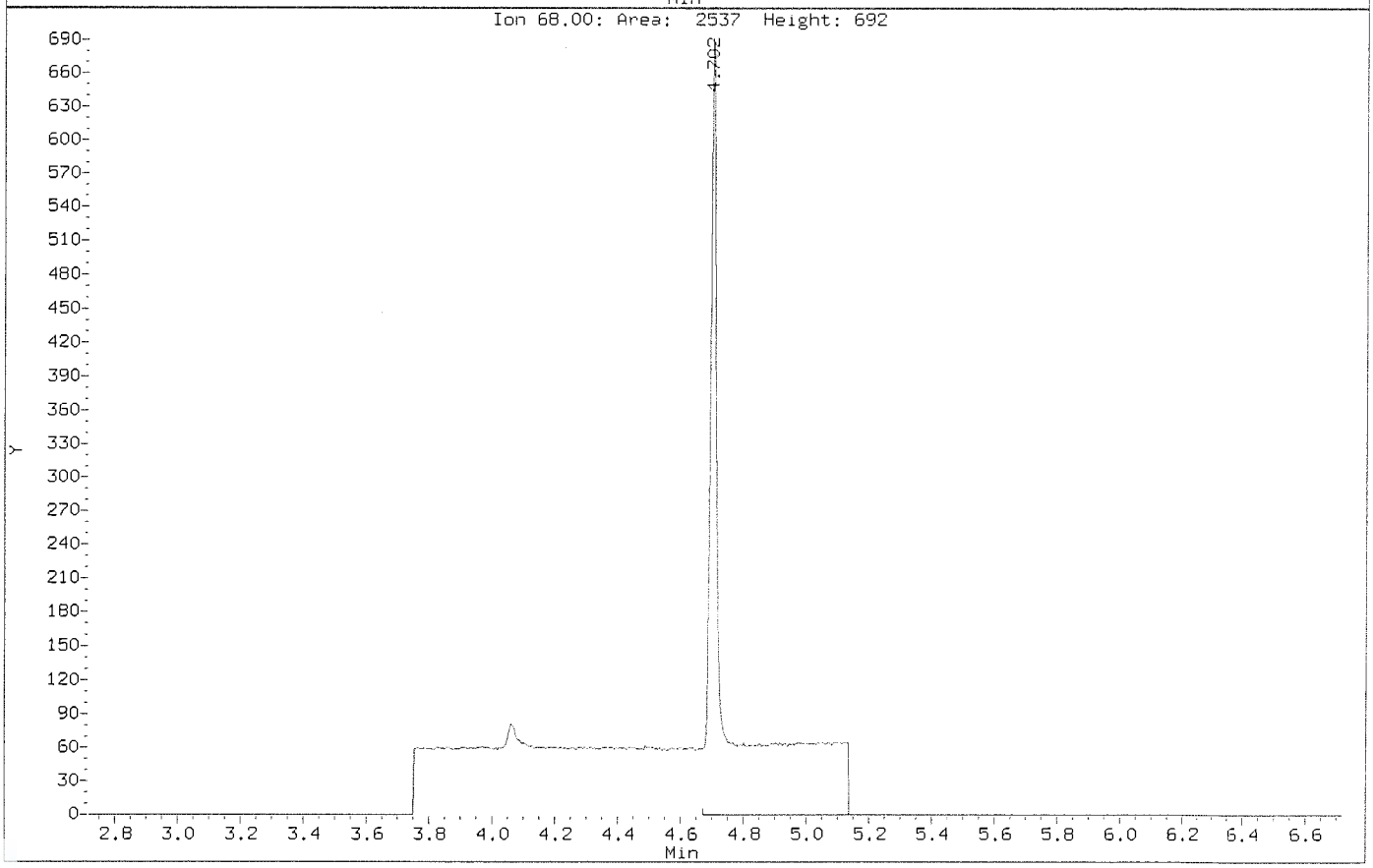




Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\Before\03.D
Injection Date: 23-AUG-2022 10:31
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

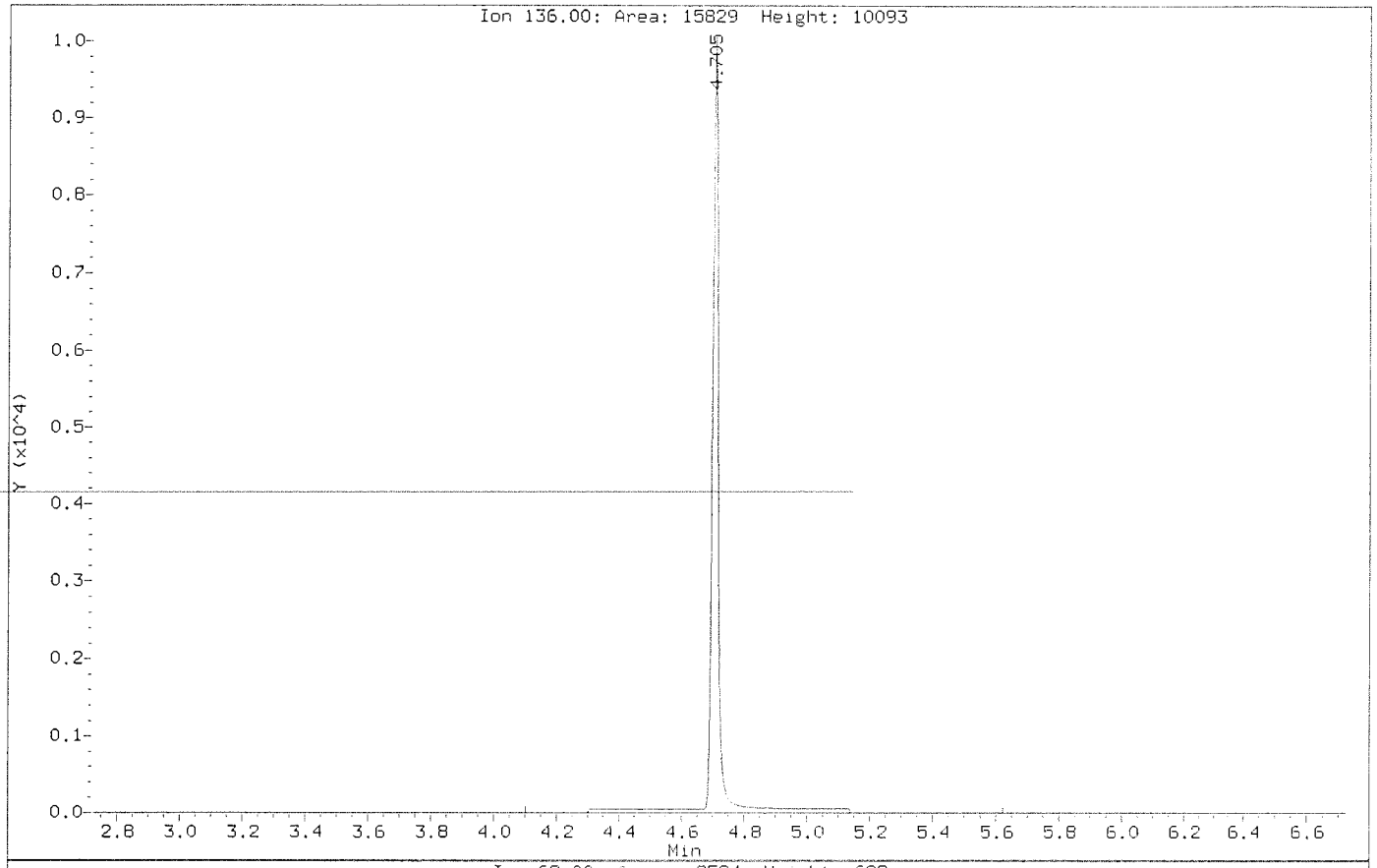
Compound: Naphthalene-d8
CAS Number: 1146-65-2

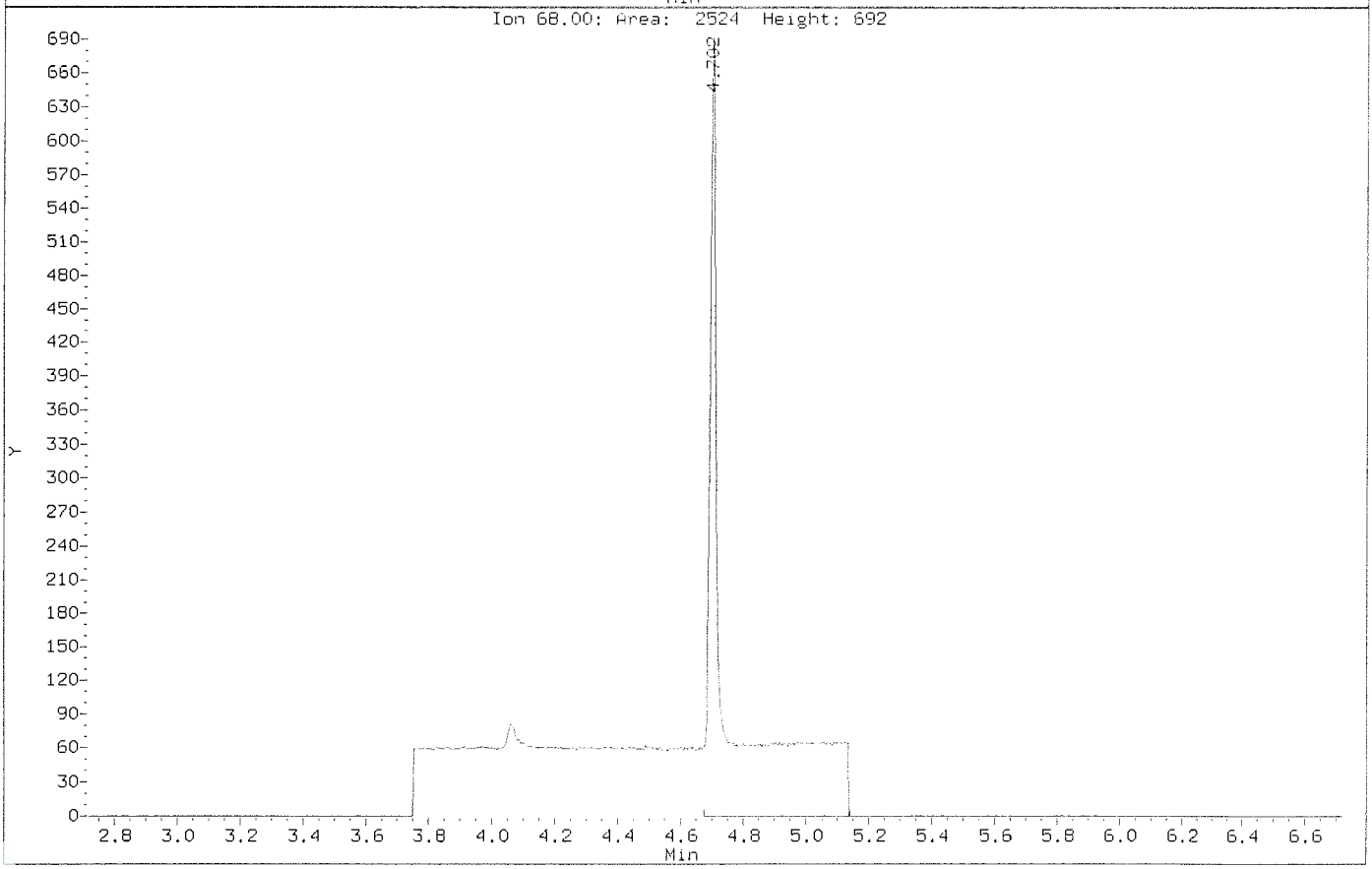




Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\03.D
Injection Date: 23-AUG-2022 10:31
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

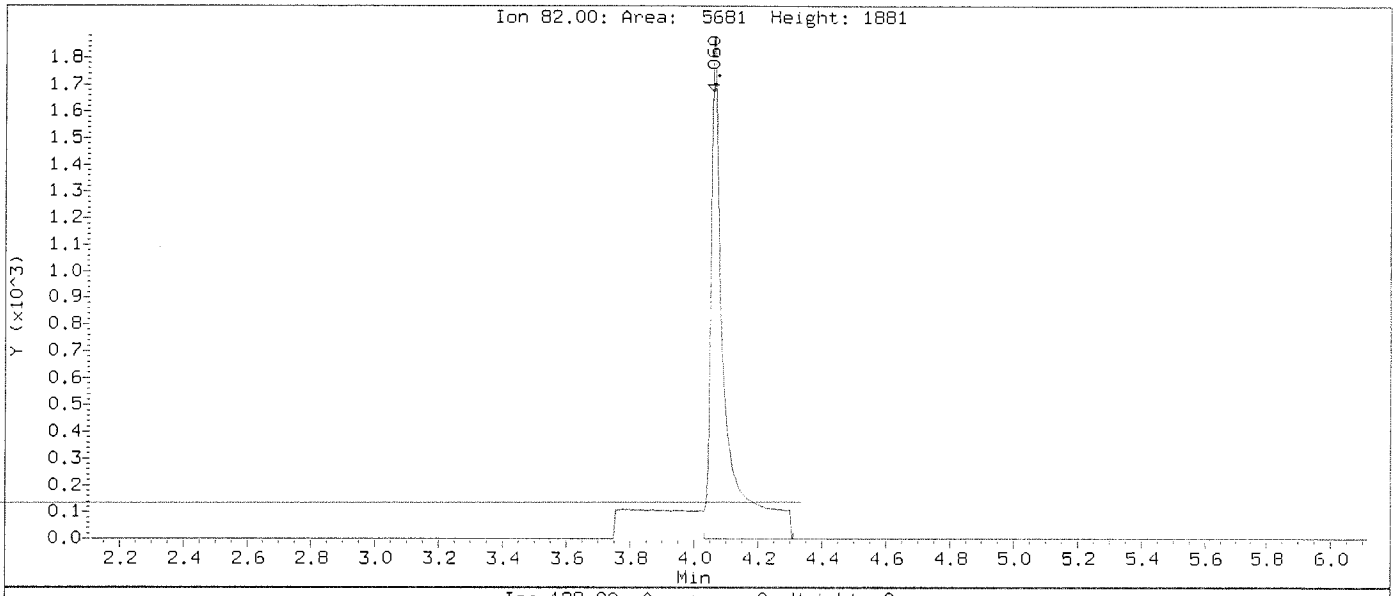
Compound: Naphthalene-d8
CAS Number: 1146-65-2

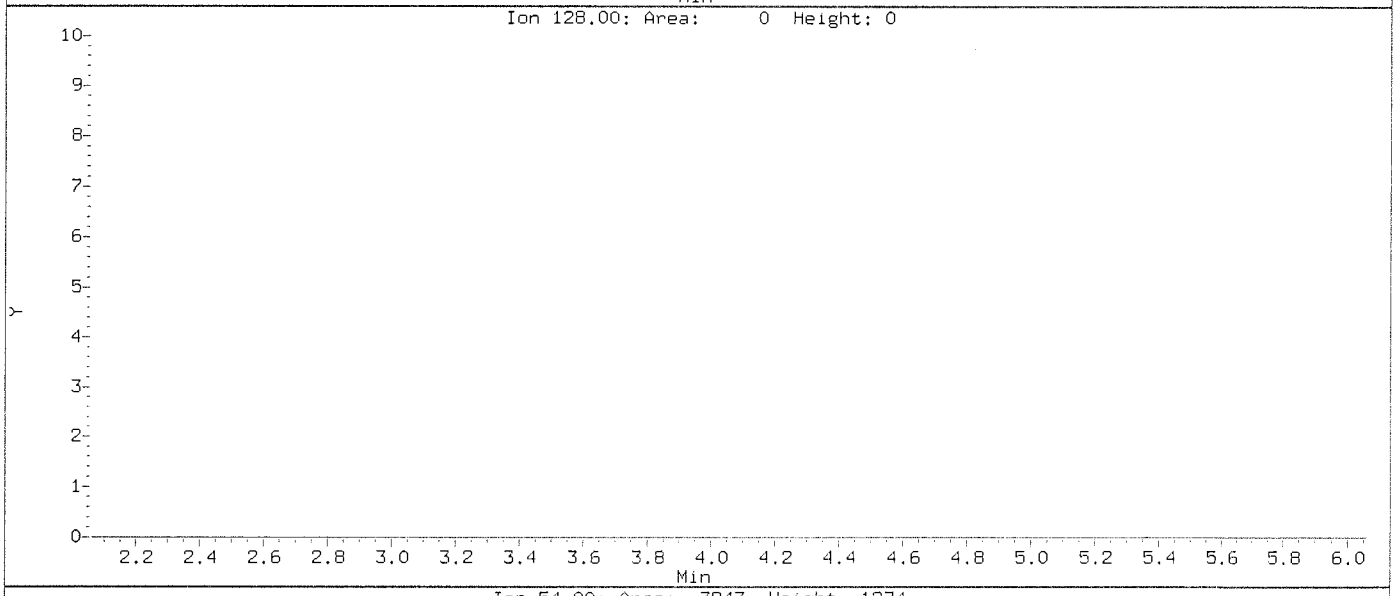


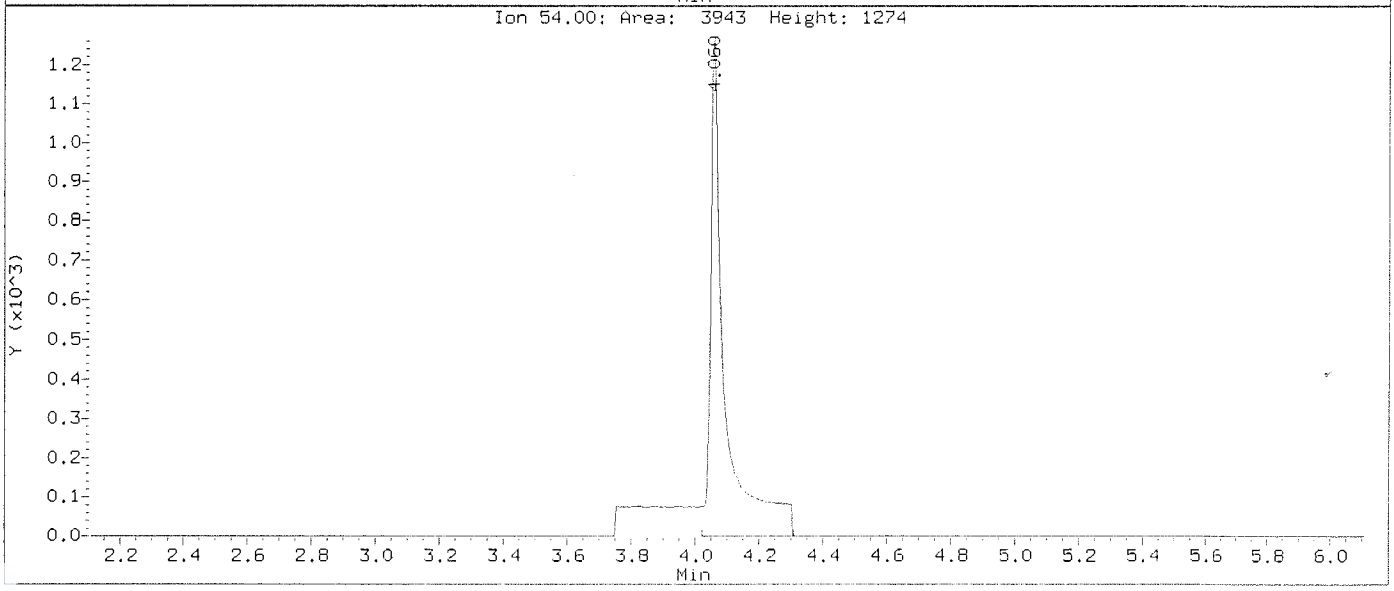


Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\Before\03.D
Injection Date: 23-AUG-2022 10:31
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

Compound: Nitrobenzene-d5
CAS Number: 4165-60-0

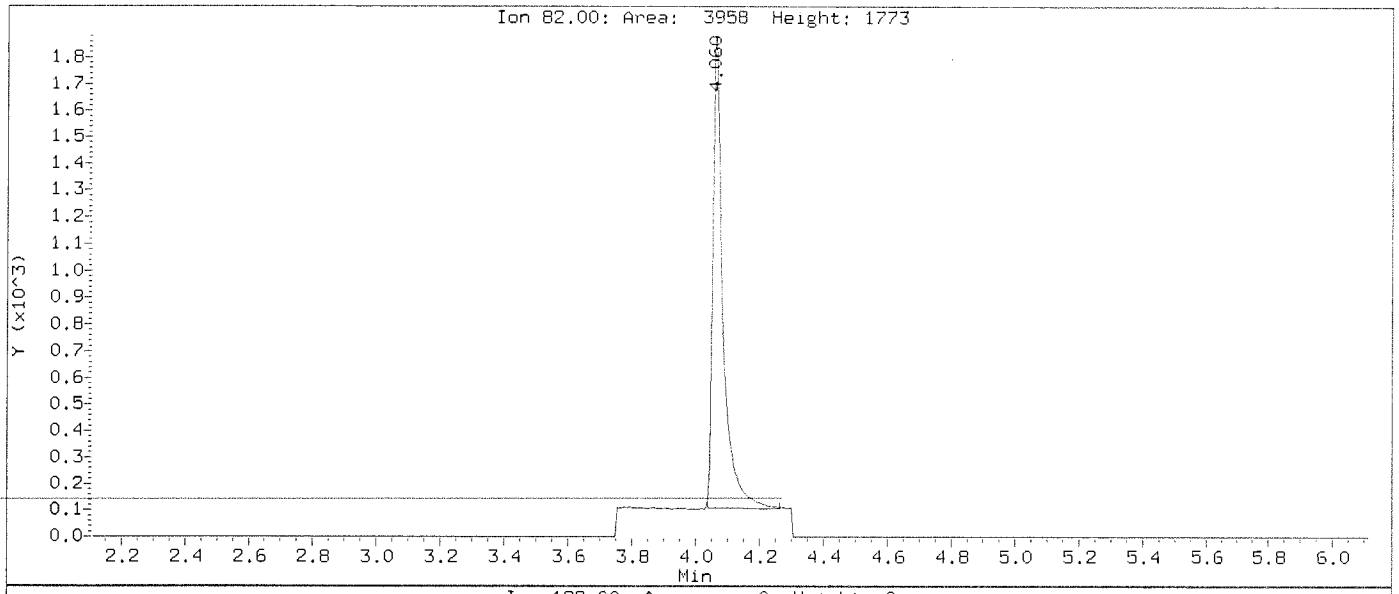


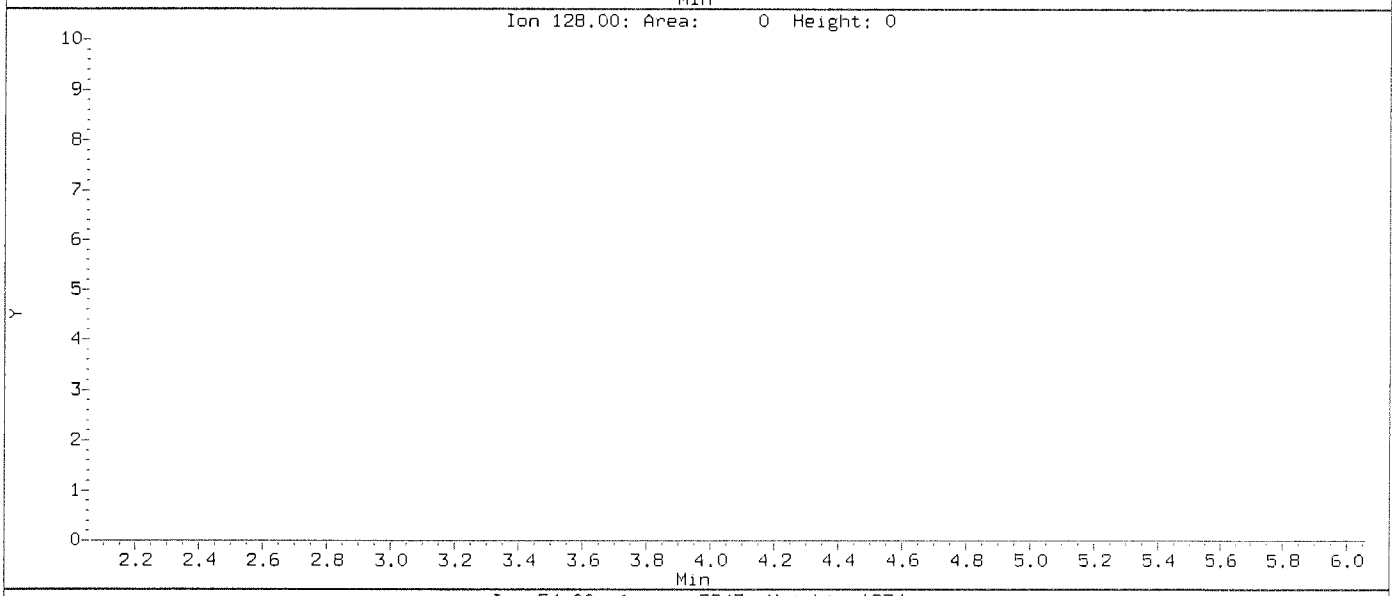


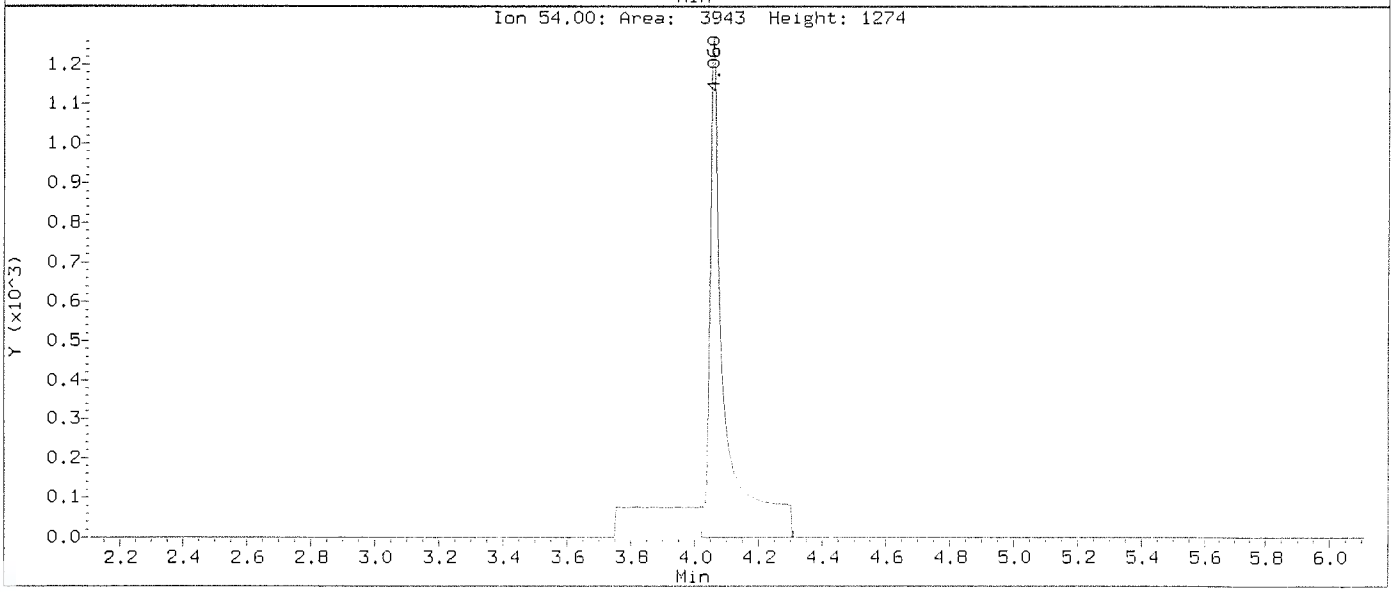


Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\03.D
Injection Date: 23-AUG-2022 10:31
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

Compound: Nitrobenzene-d5
CAS Number: 4165-60-0

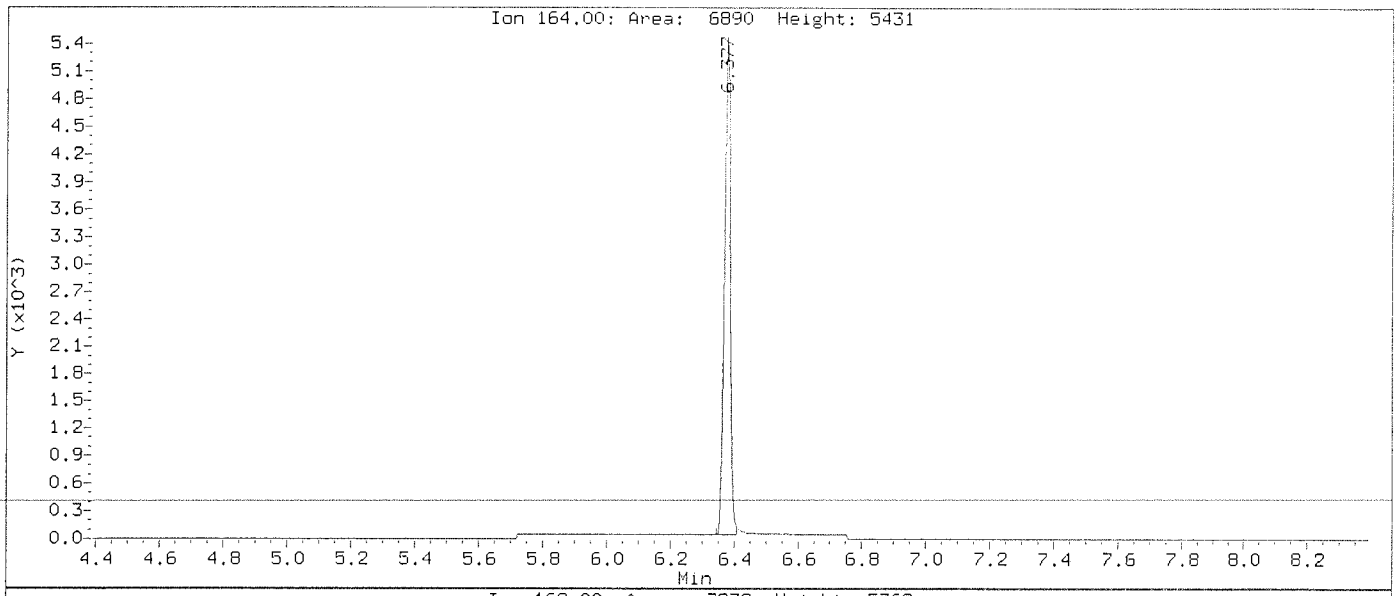


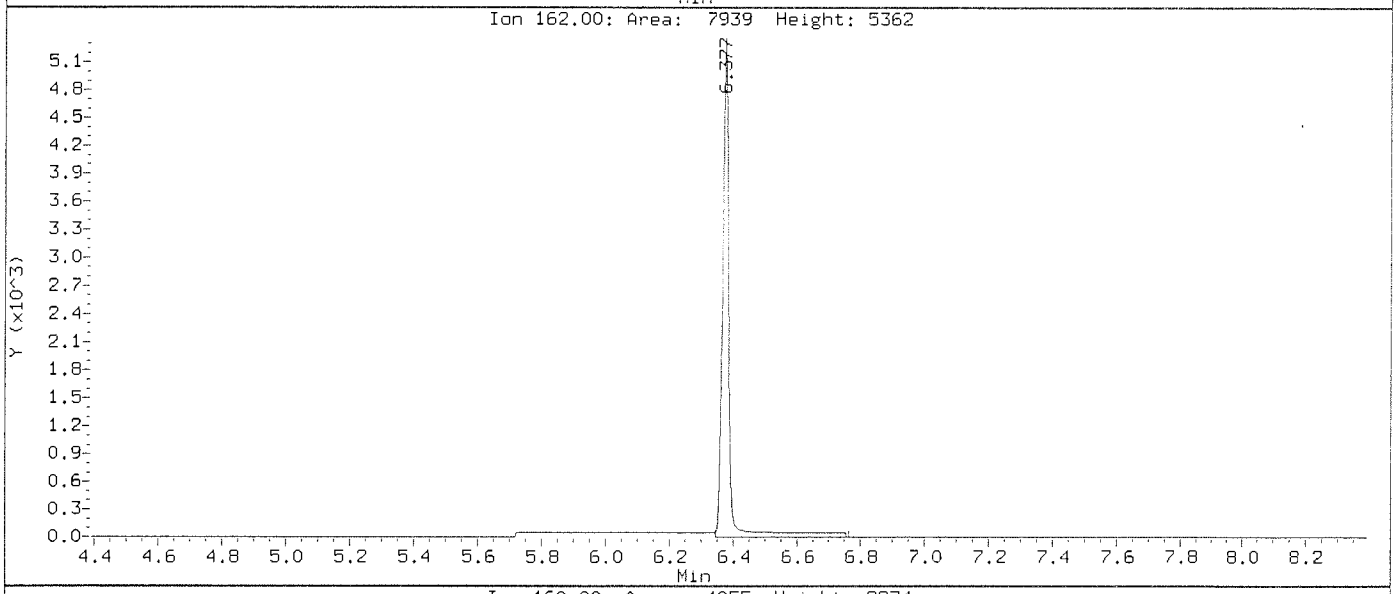


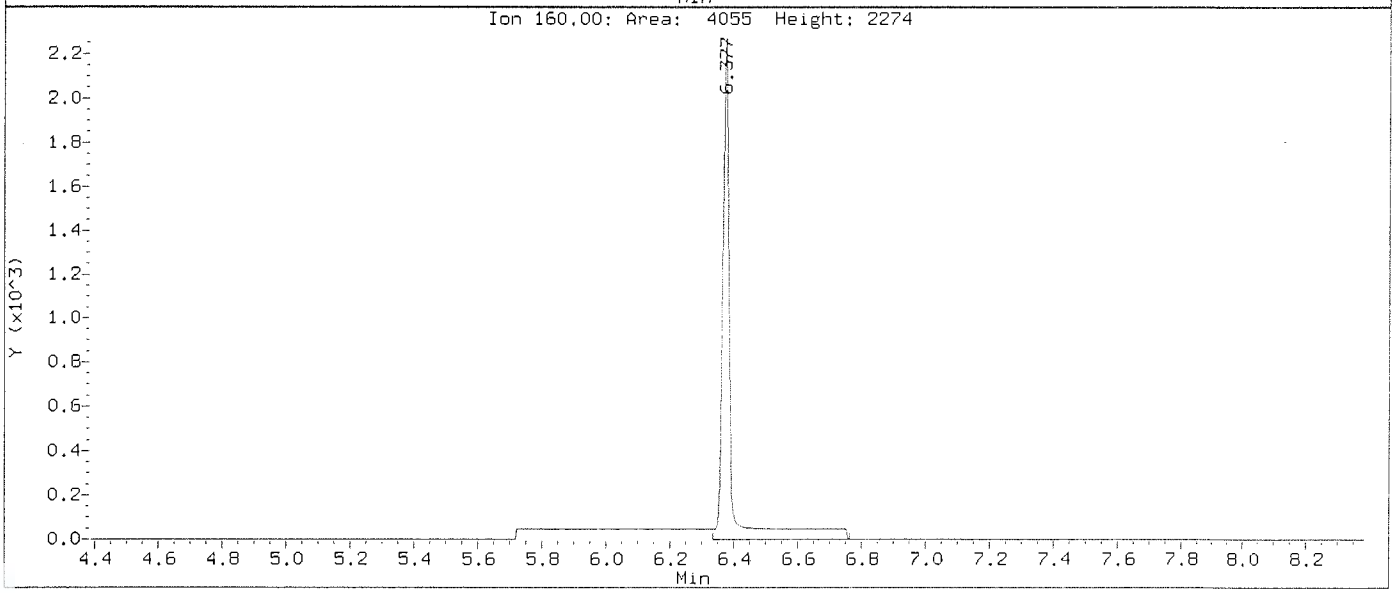


Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\Before\03.D
Injection Date: 23-AUG-2022 10:31
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

Compound: Acenaphthene-d10
CAS Number: 15067-26-2

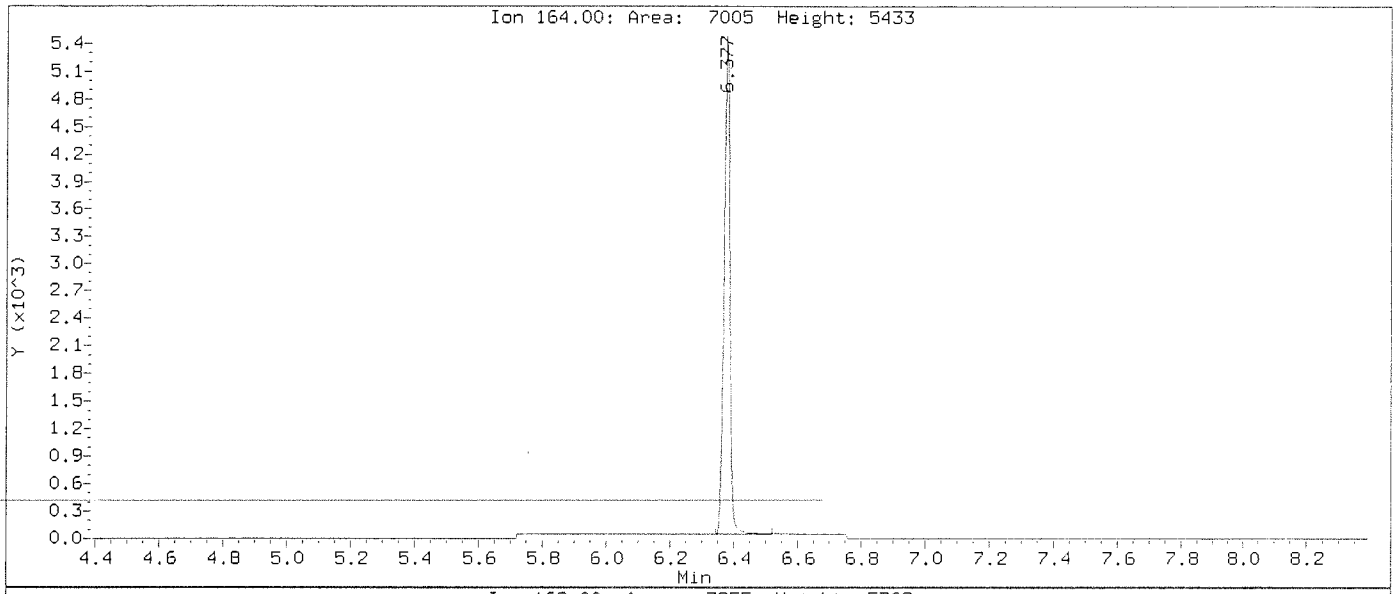


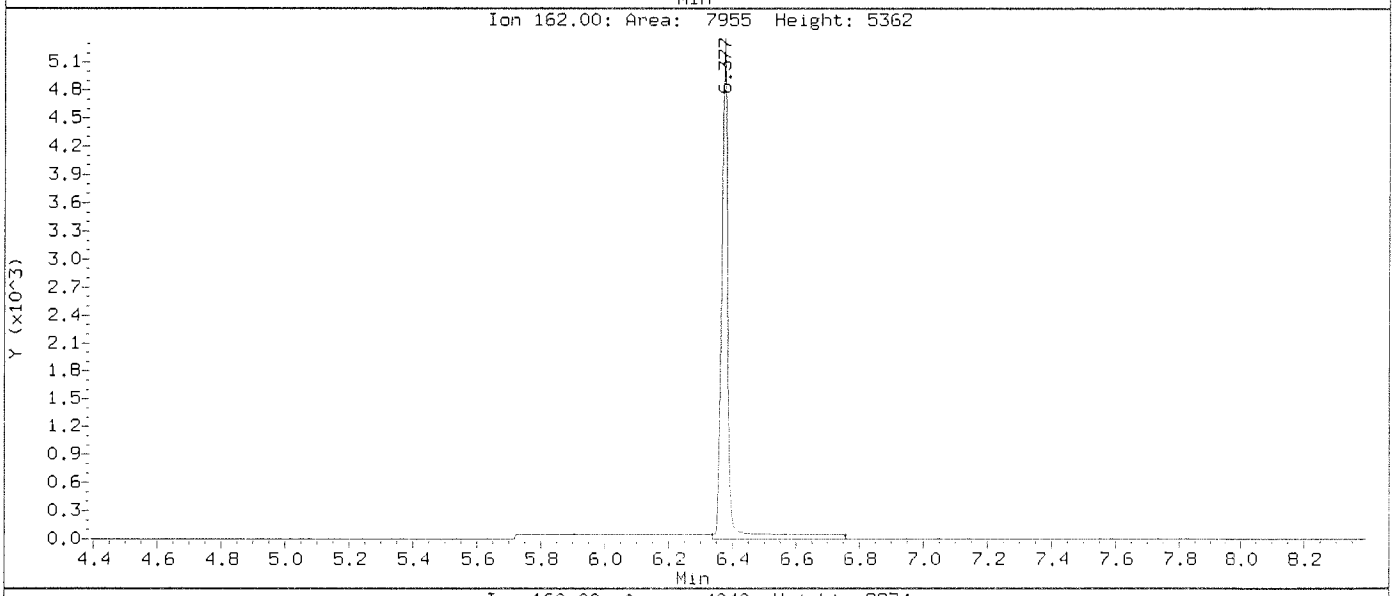


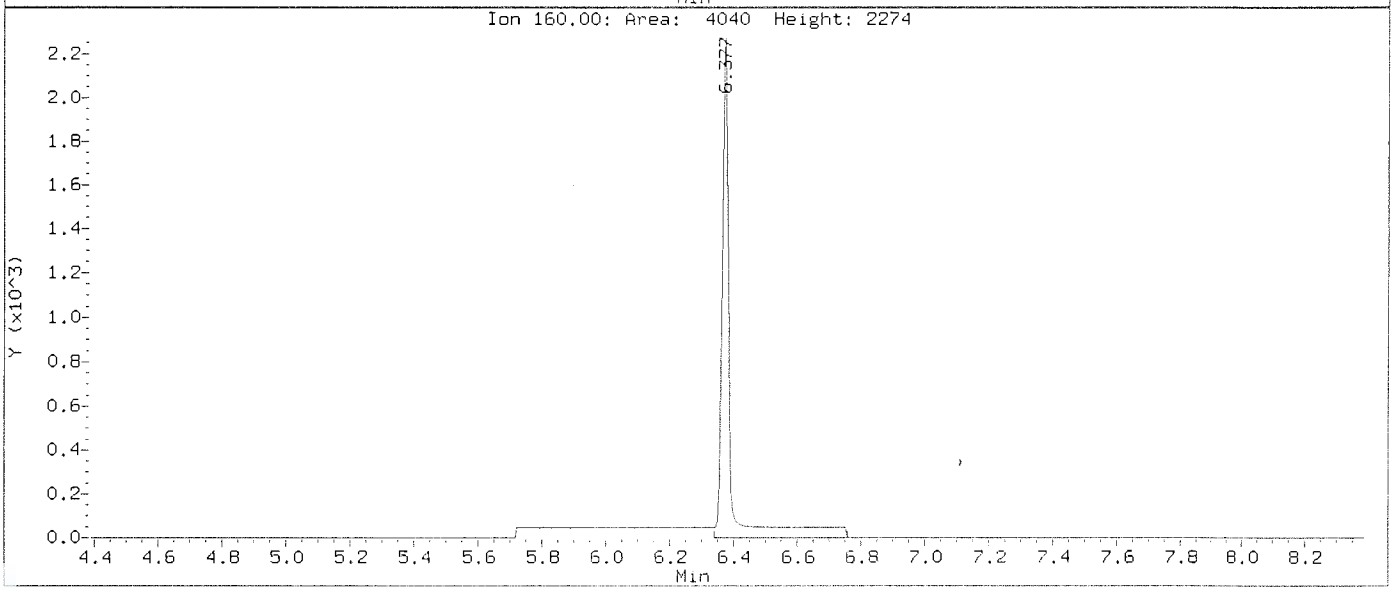


Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\03.D
Injection Date: 23-AUG-2022 10:31
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

Compound: Acenaphthene-d10
CAS Number: 15067-26-2

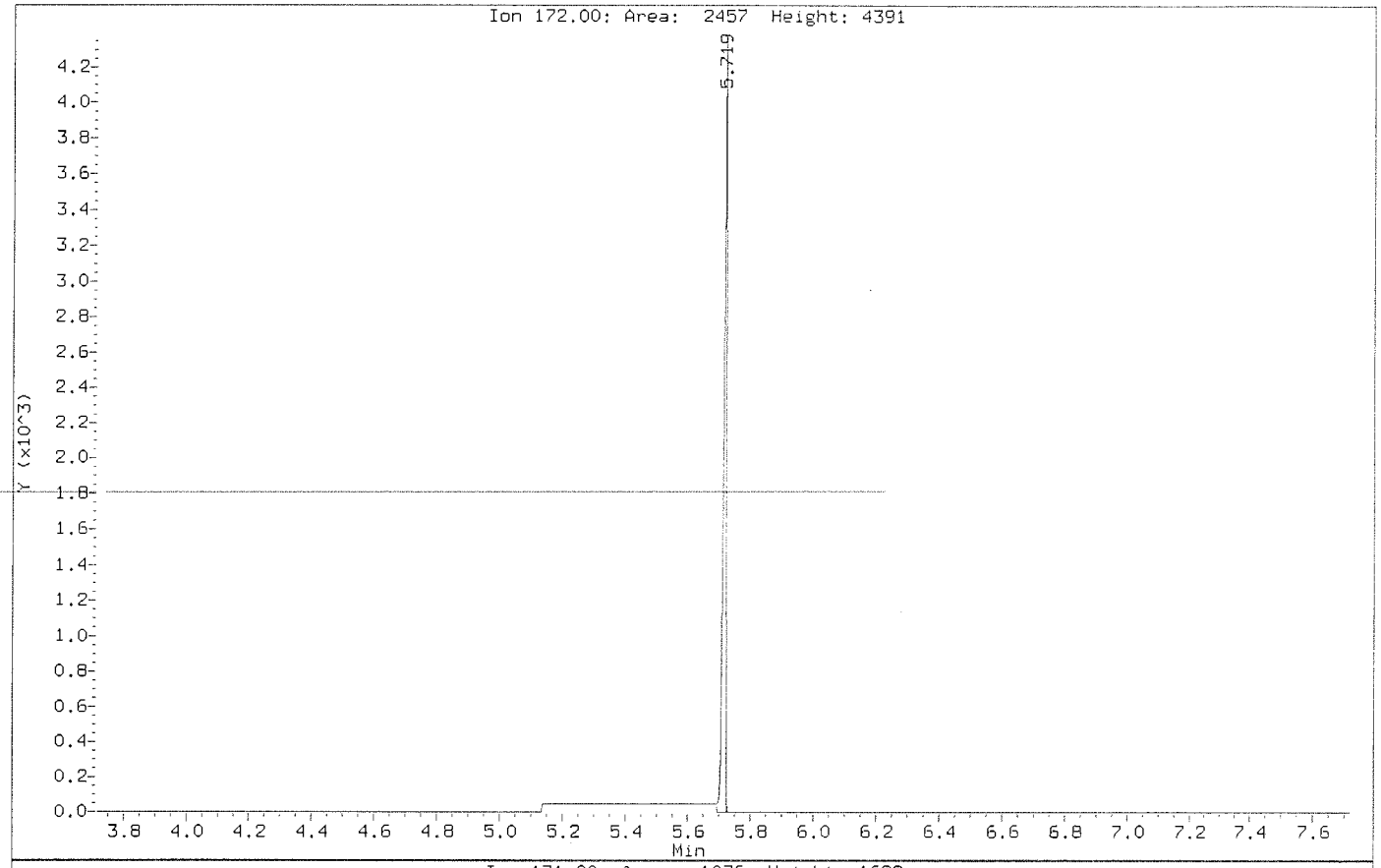


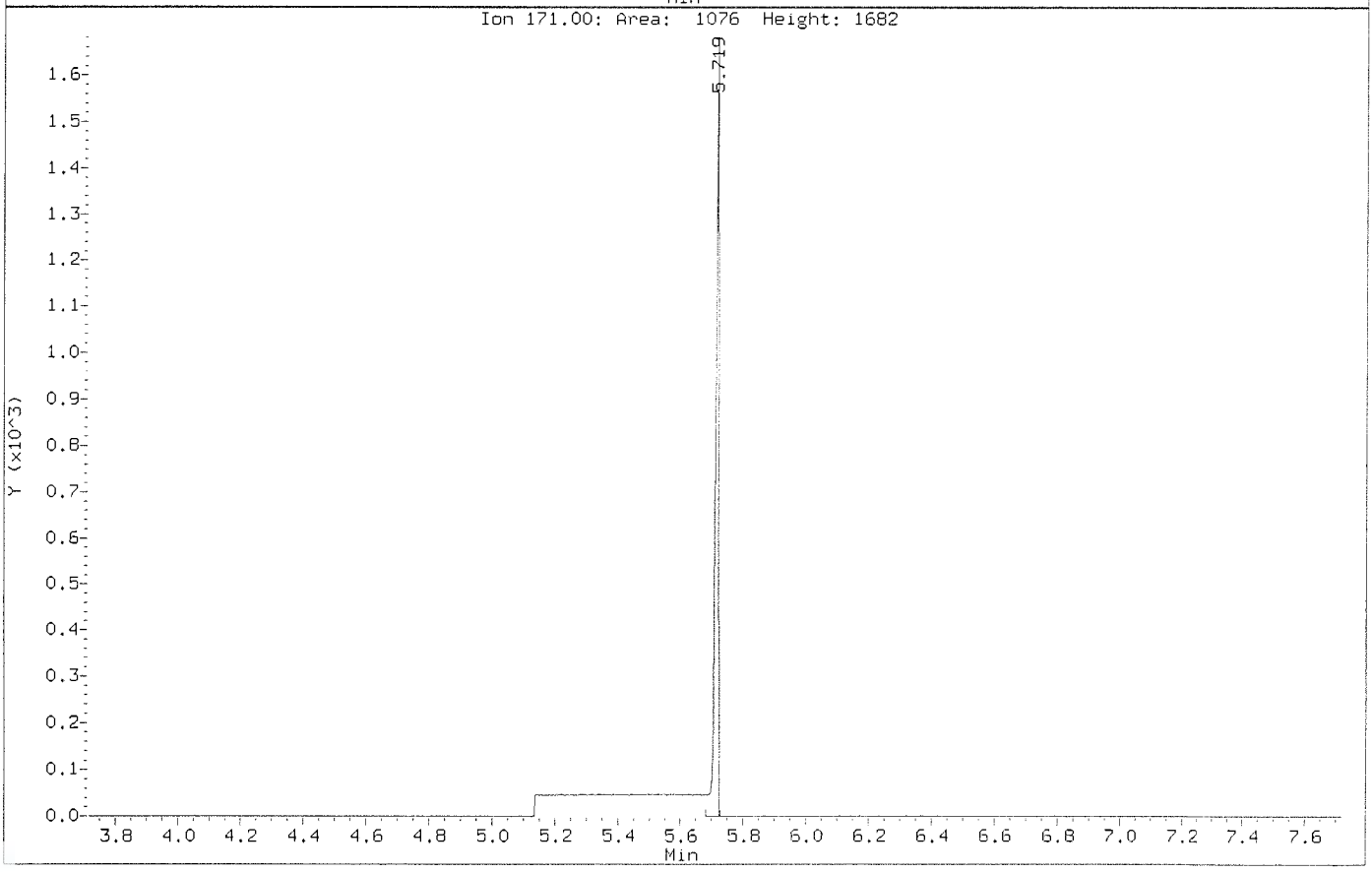




Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\Before\03.D
Injection Date: 23-AUG-2022 10:31
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

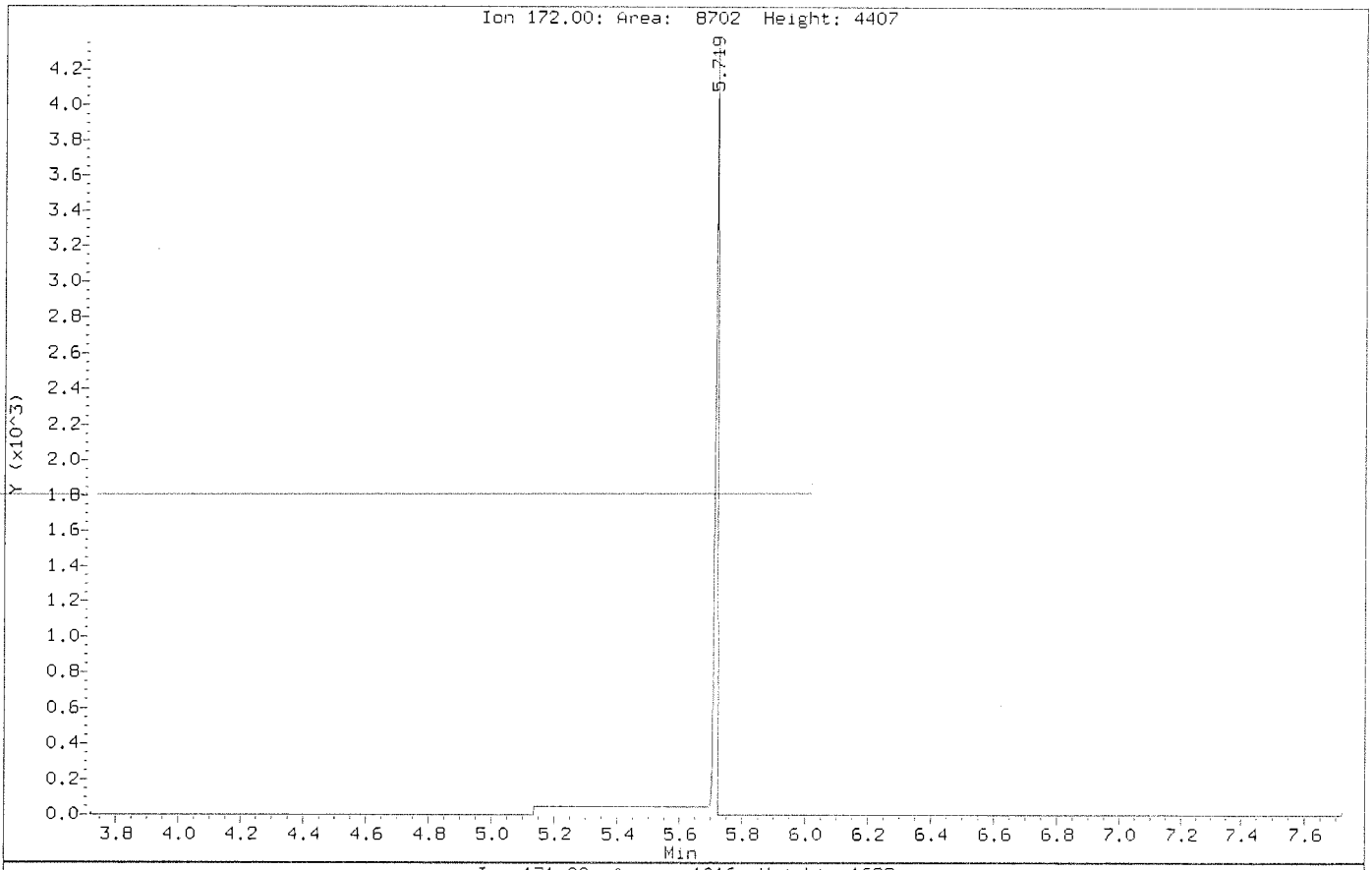
Compound: 2-Fluorobiphenyl
CAS Number: 321-60-8

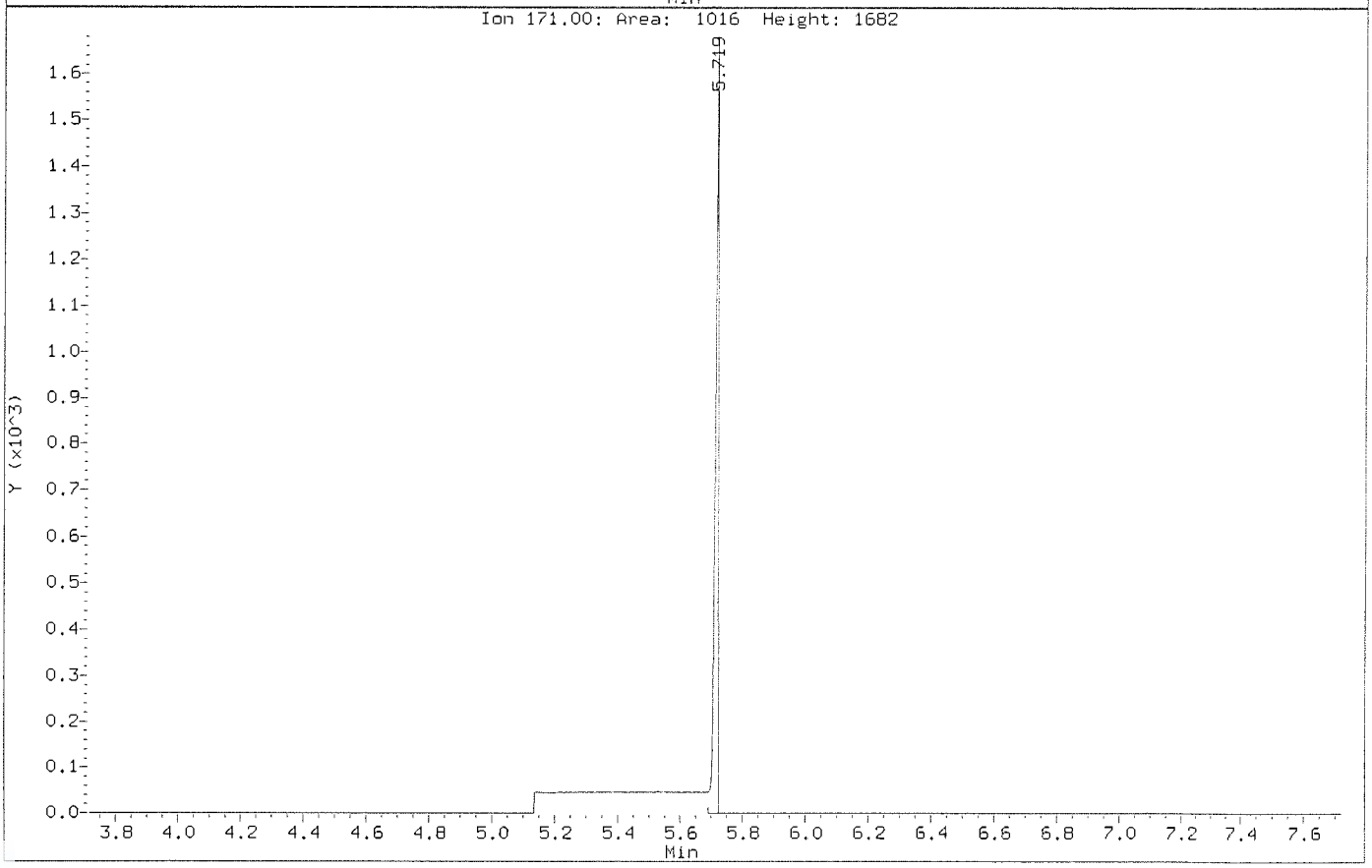




Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\03.D
Injection Date: 23-AUG-2022 10:31
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

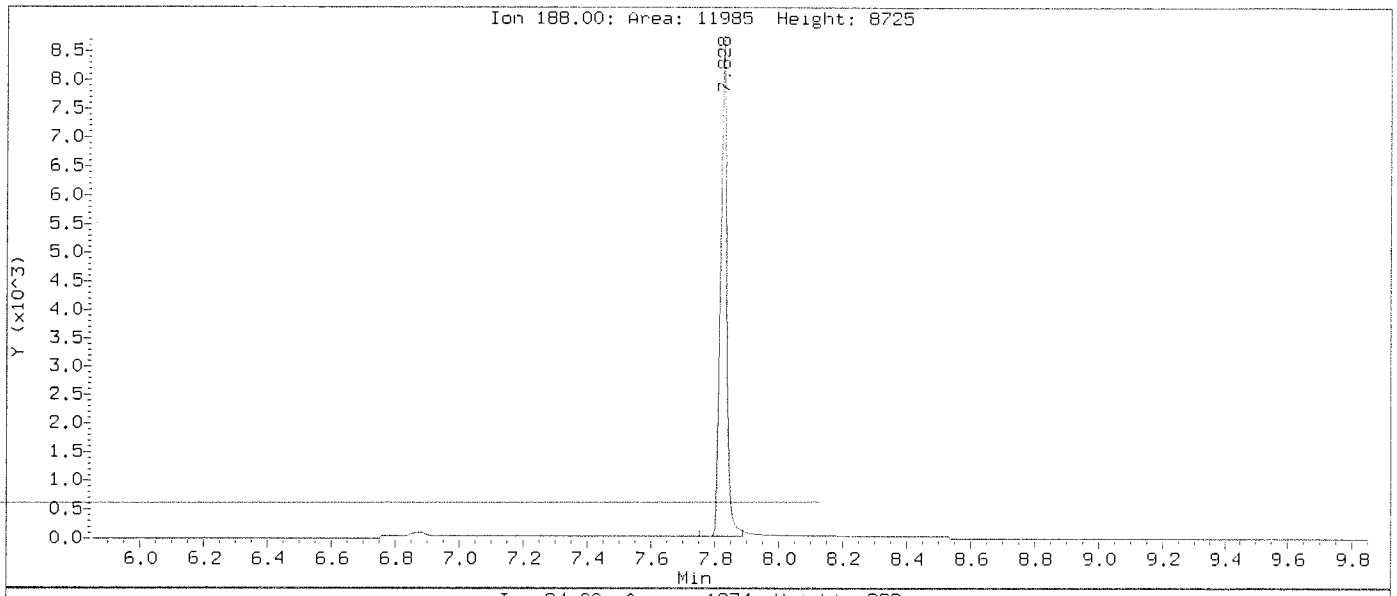
Compound: 2-Fluorobiphenyl
CAS Number: 321-60-8

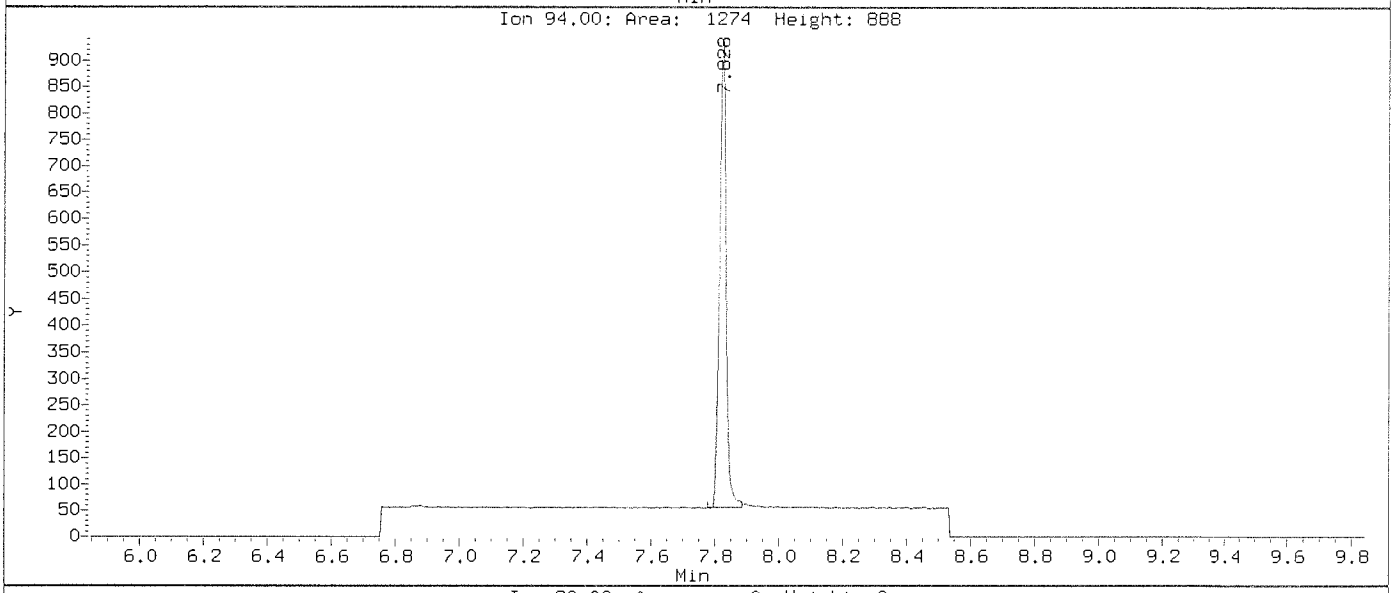


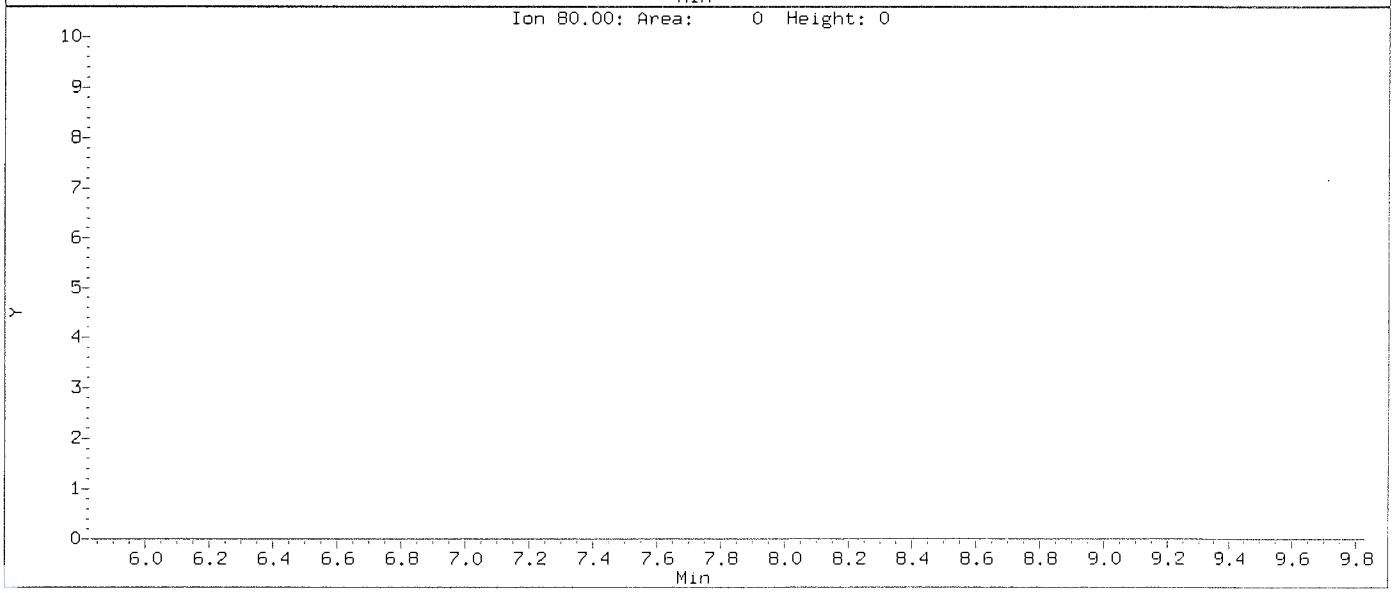


Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\Before\03.D
Injection Date: 23-AUG-2022 10:31
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

Compound: Phenanthrene-d10
CAS Number: 1517-22-2

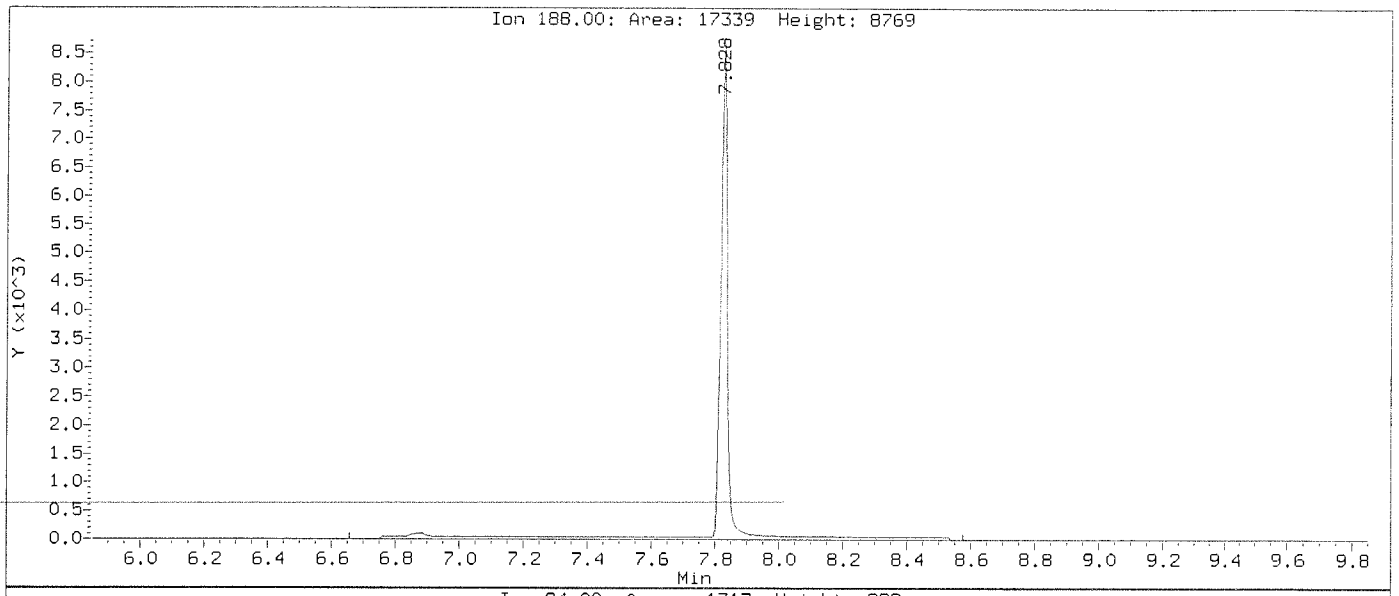


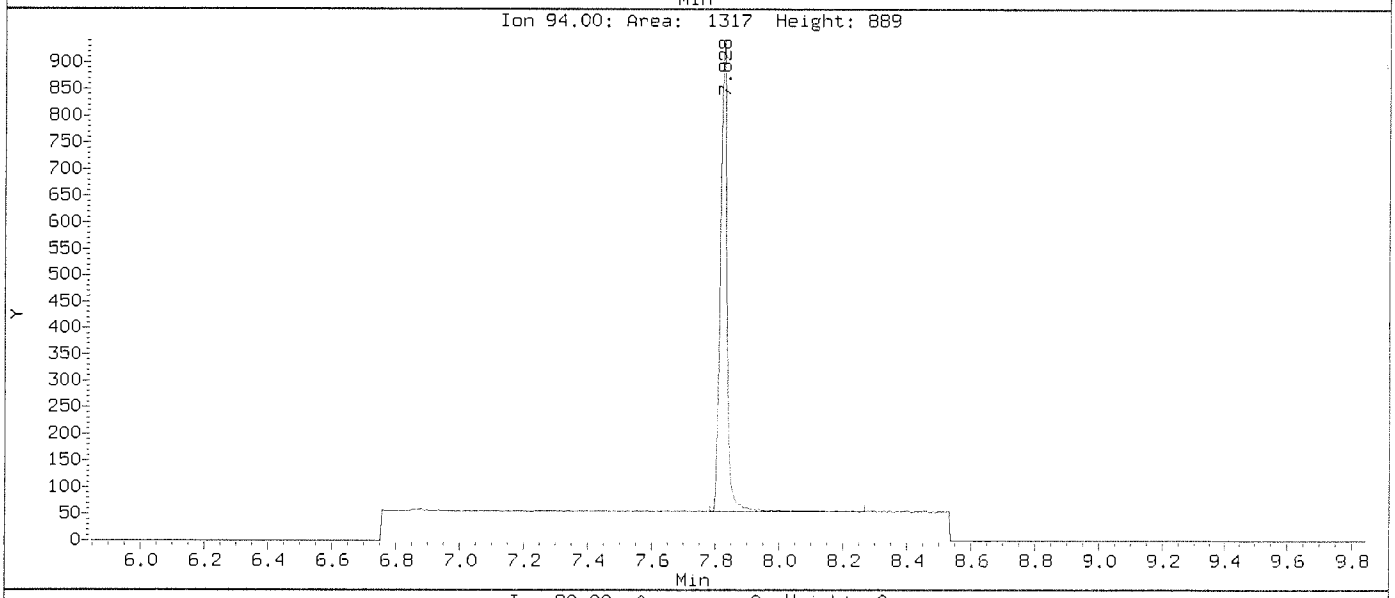


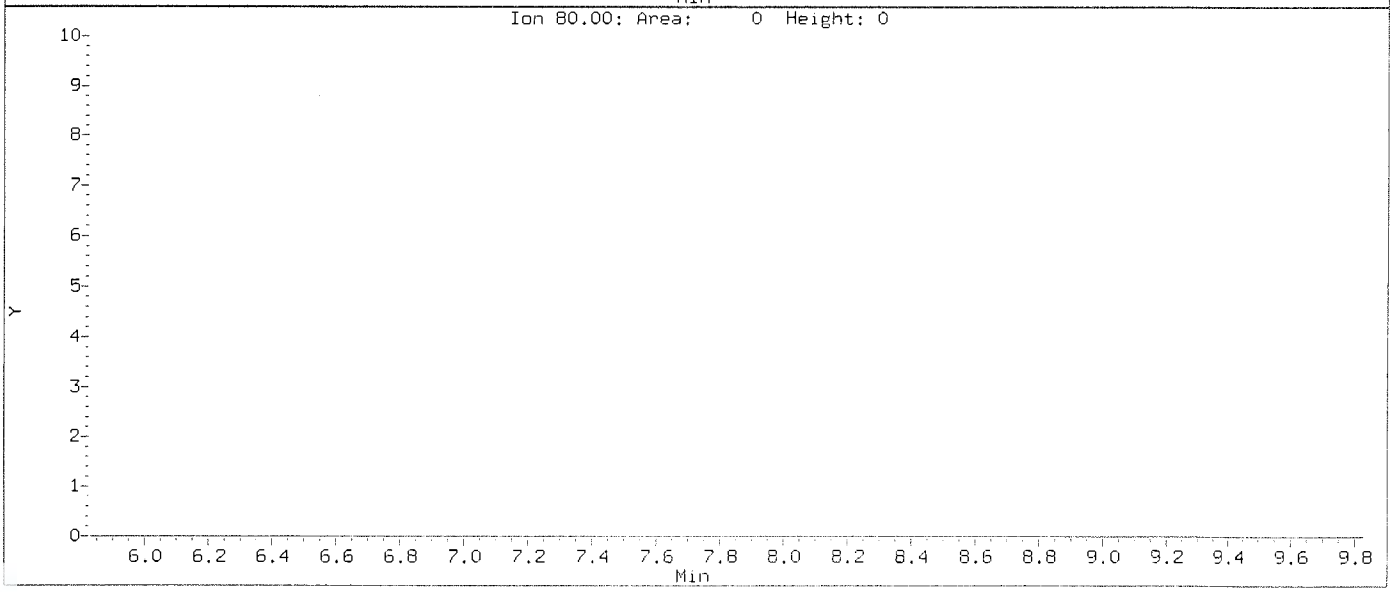


Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\03.D
Injection Date: 23-AUG-2022 10:31
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

Compound: Phenanthrene-d10
CAS Number: 1517-22-2

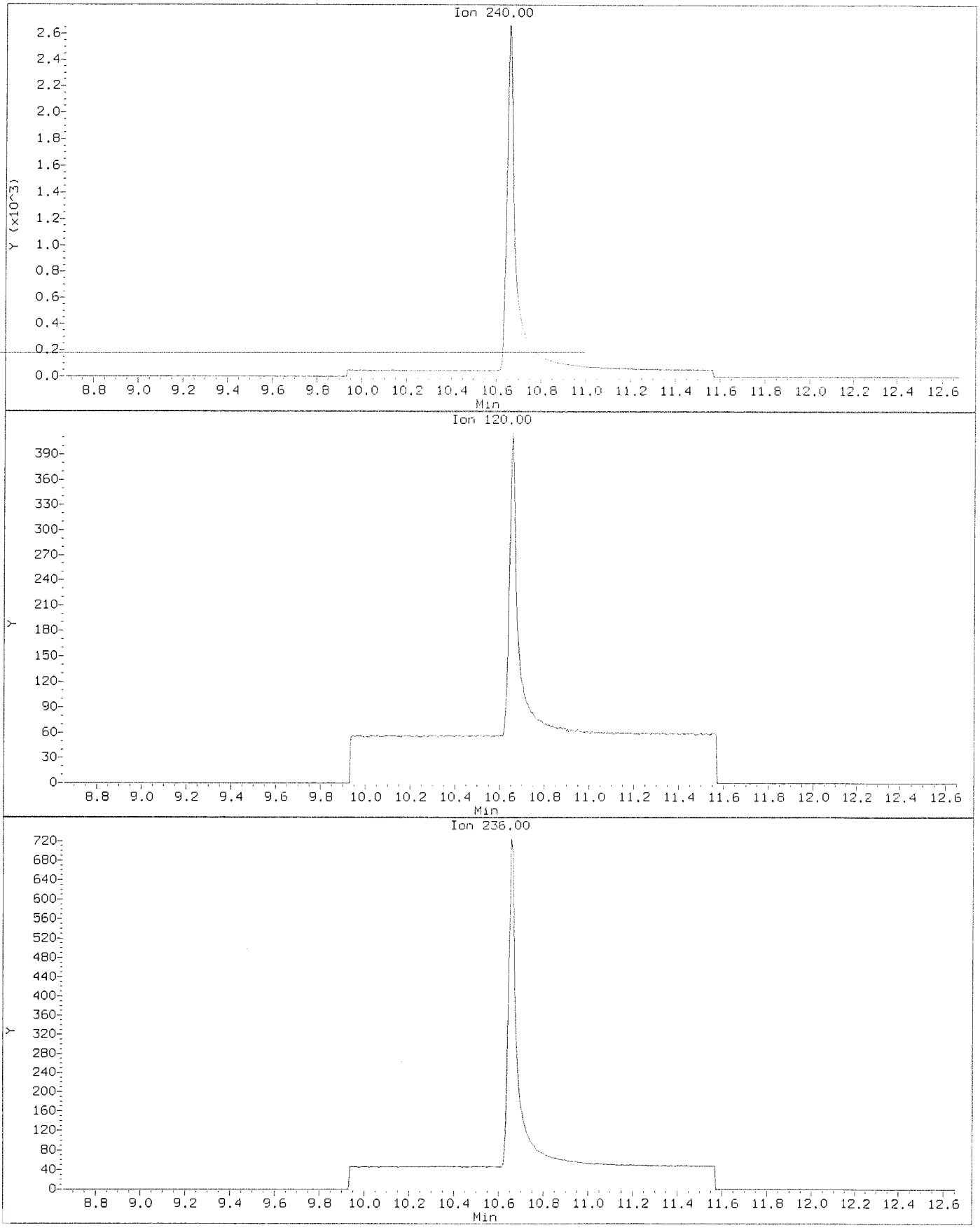






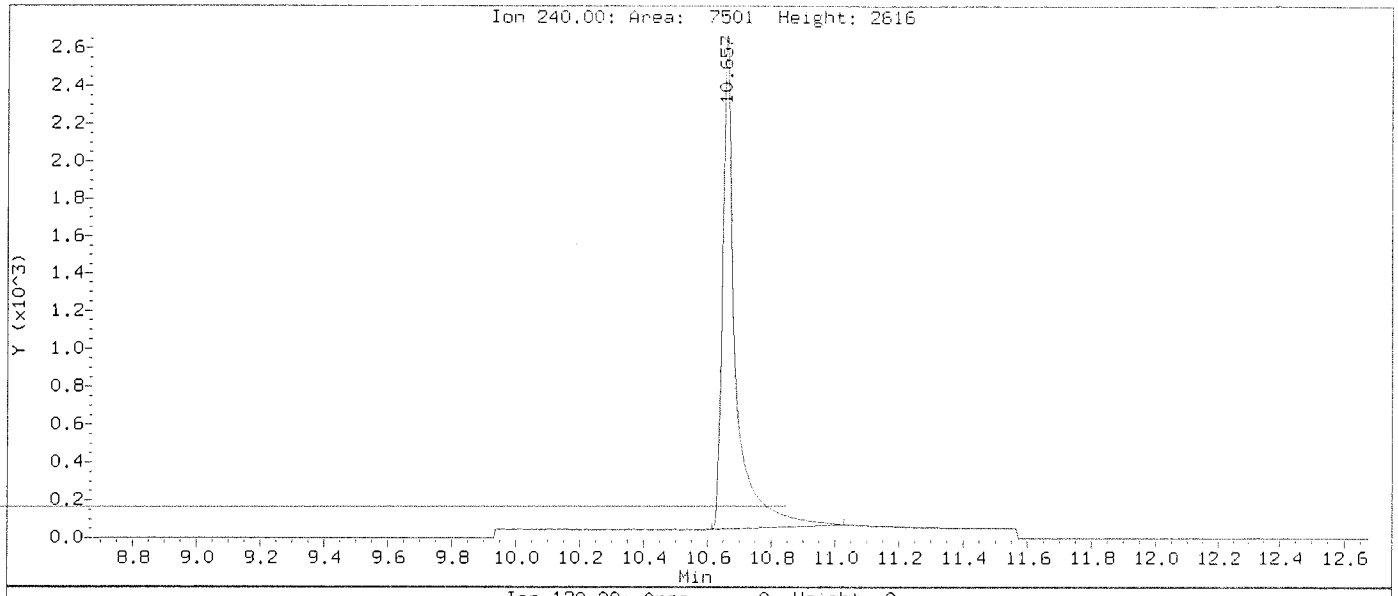
Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\Before\03.D
Injection Date: 23-AUG-2022 10:31
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

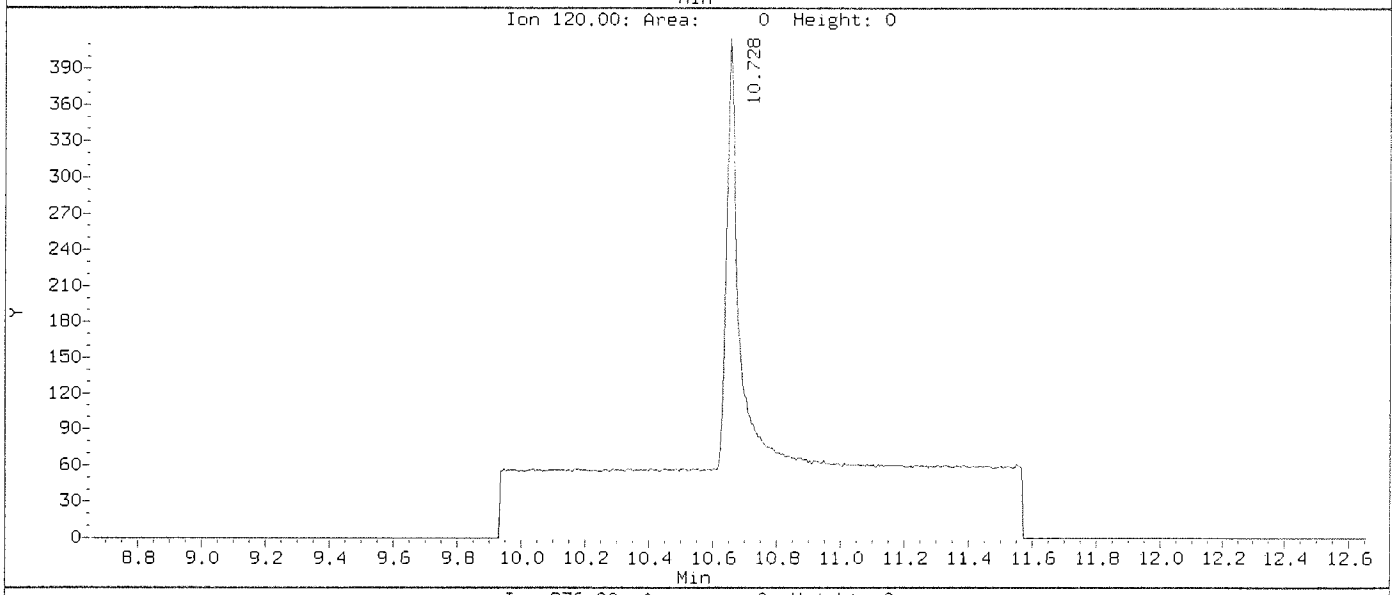
Compound: Chrysene-d12
CAS Number: 1719-03-5

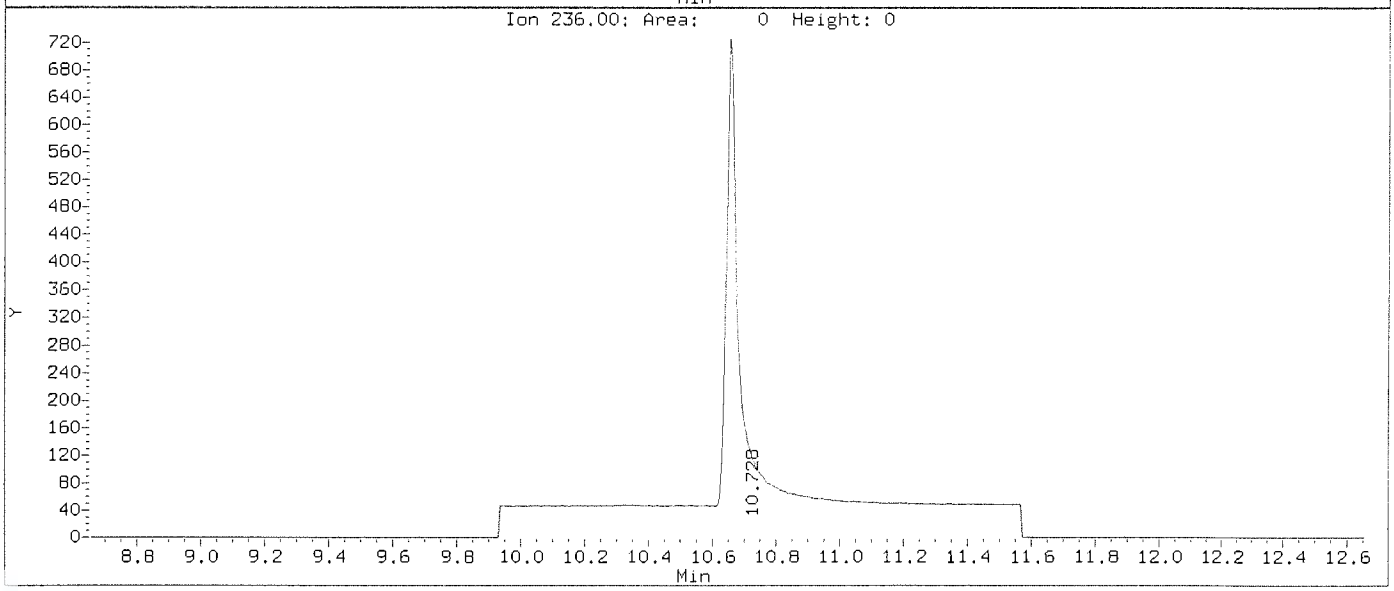


Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\03.D
Injection Date: 23-AUG-2022 10:31
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

Compound: Chrysene-d12
CAS Number: 1719-03-5

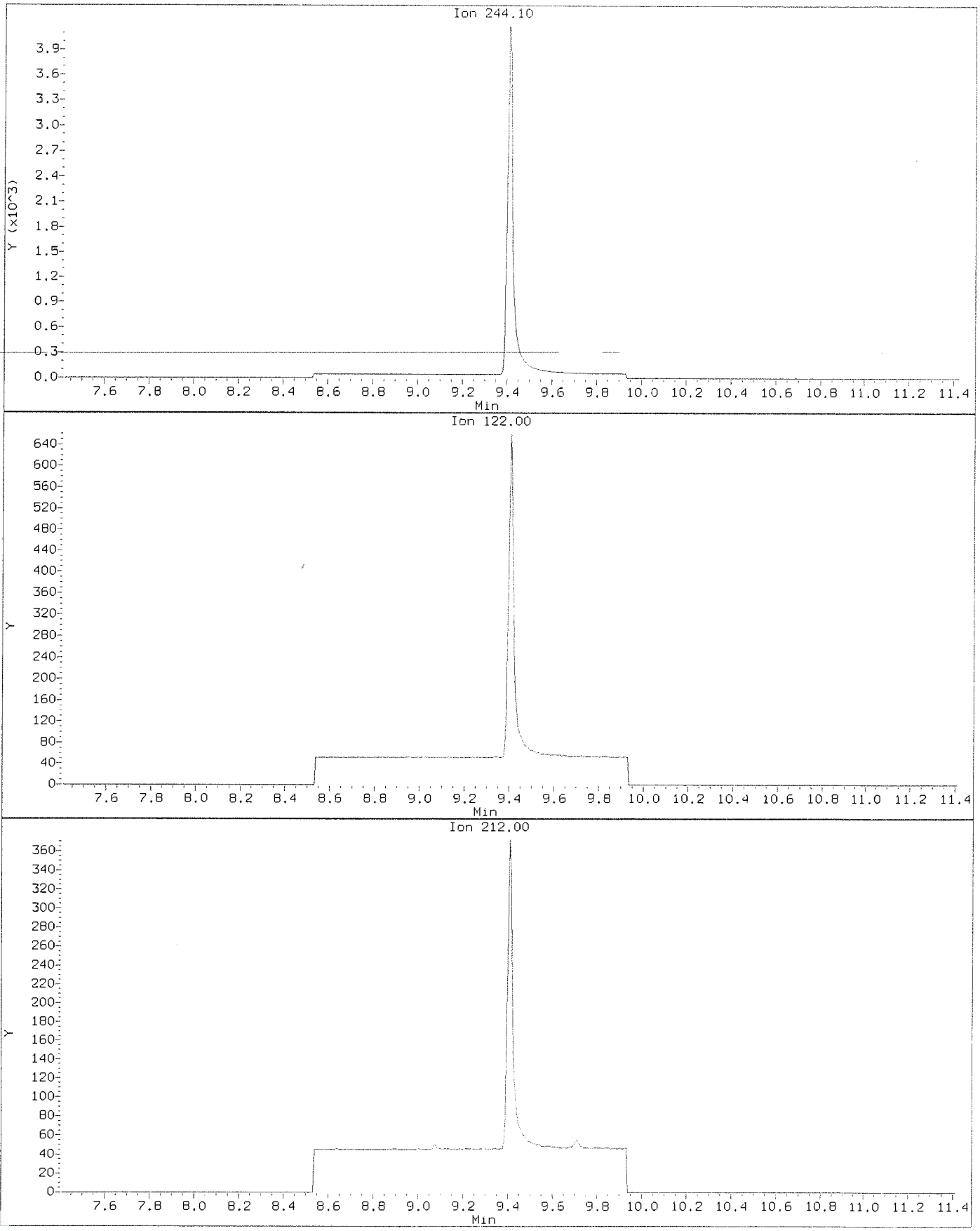






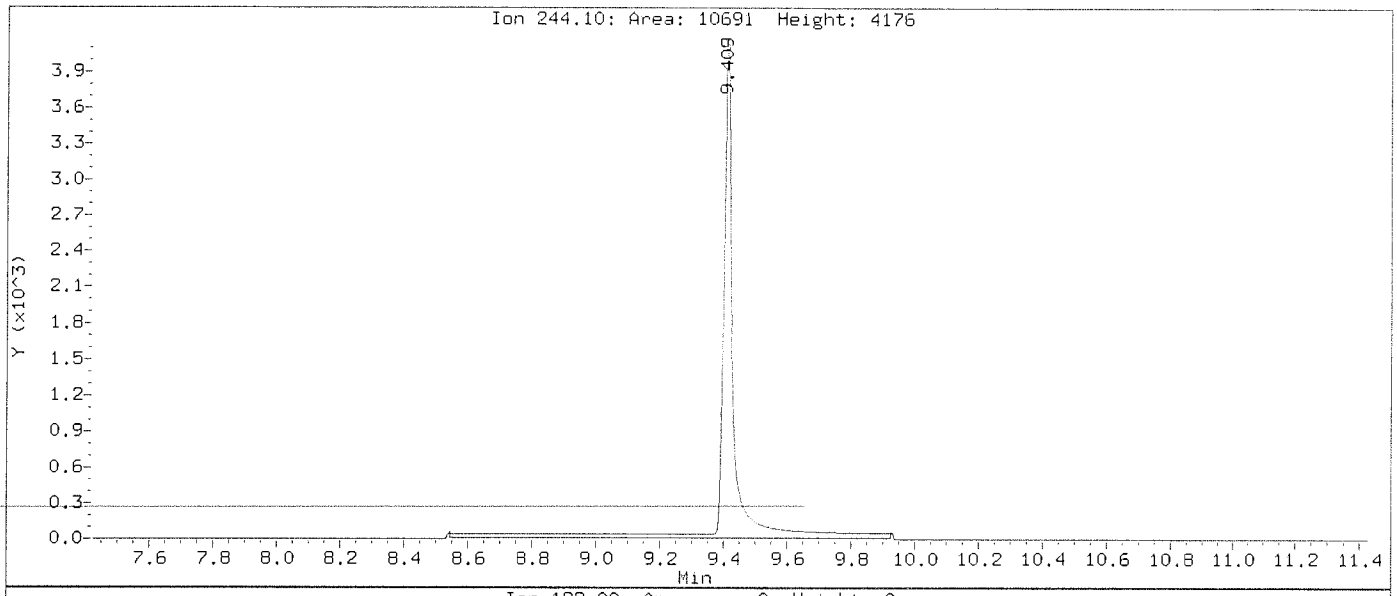
Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\Before\03.D
Injection Date: 23-AUG-2022 10:31
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

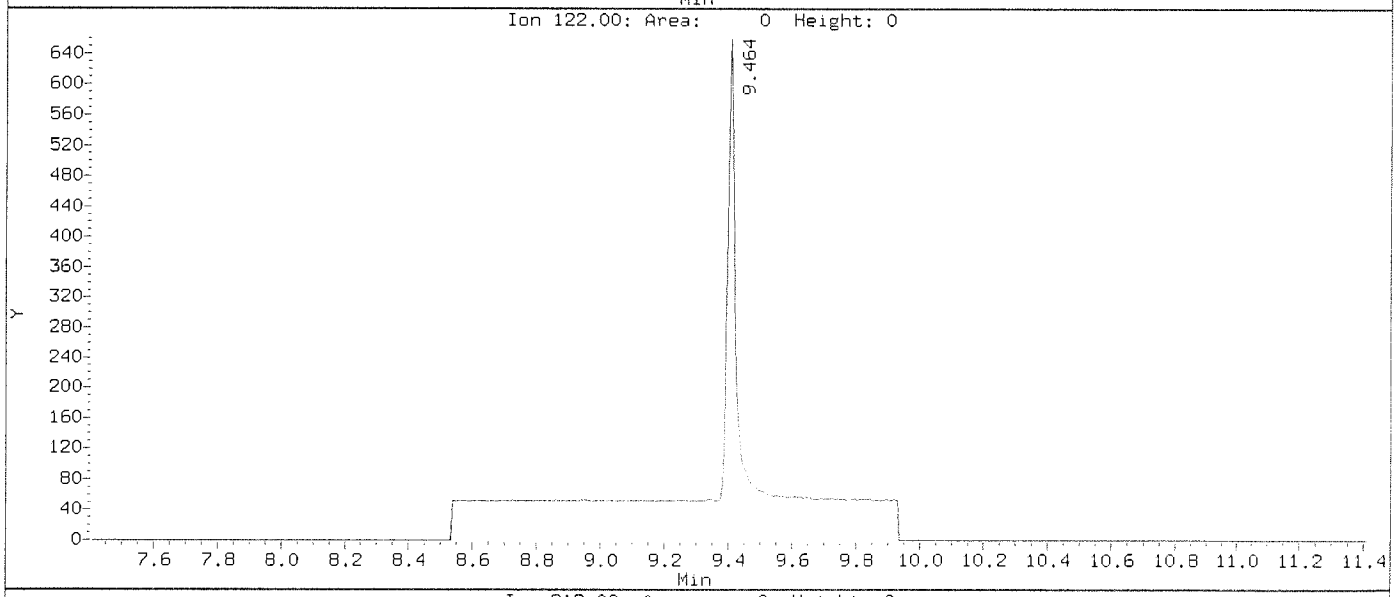
Compound: 4-Terphenyl-d14
CAS Number: 1718-51-0

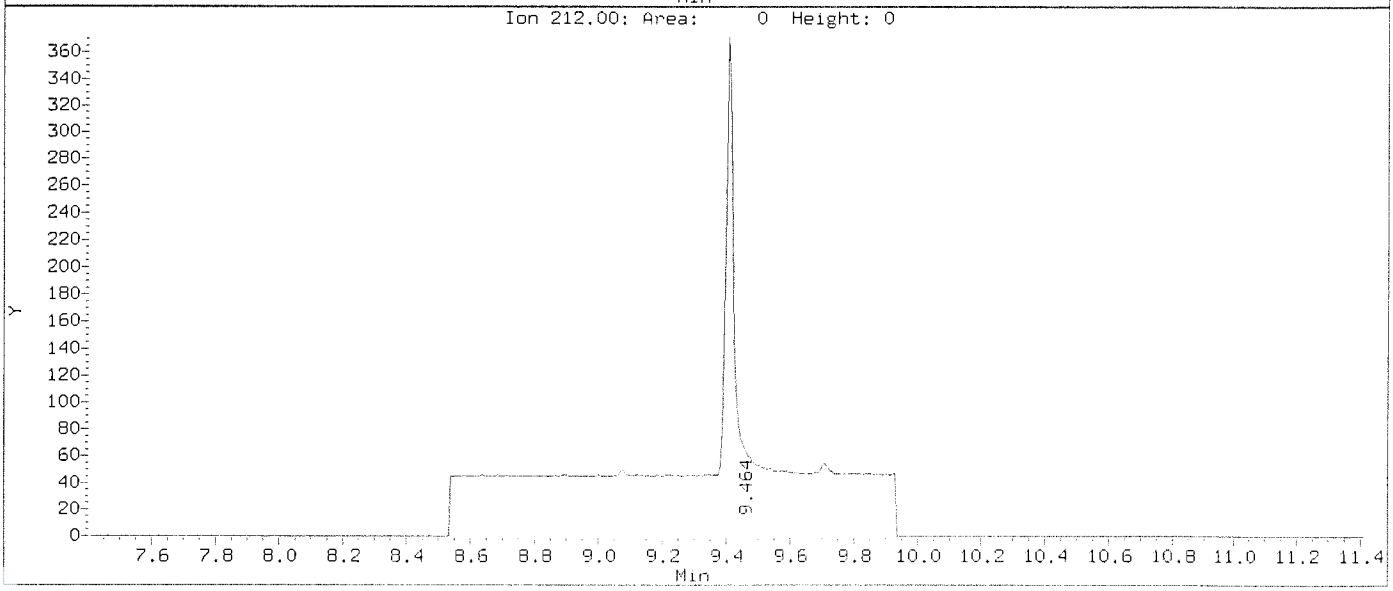


Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\03.D
Injection Date: 23-AUG-2022 10:31
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

Compound: 4-Terphenyl-d14
CAS Number: 1718-51-0

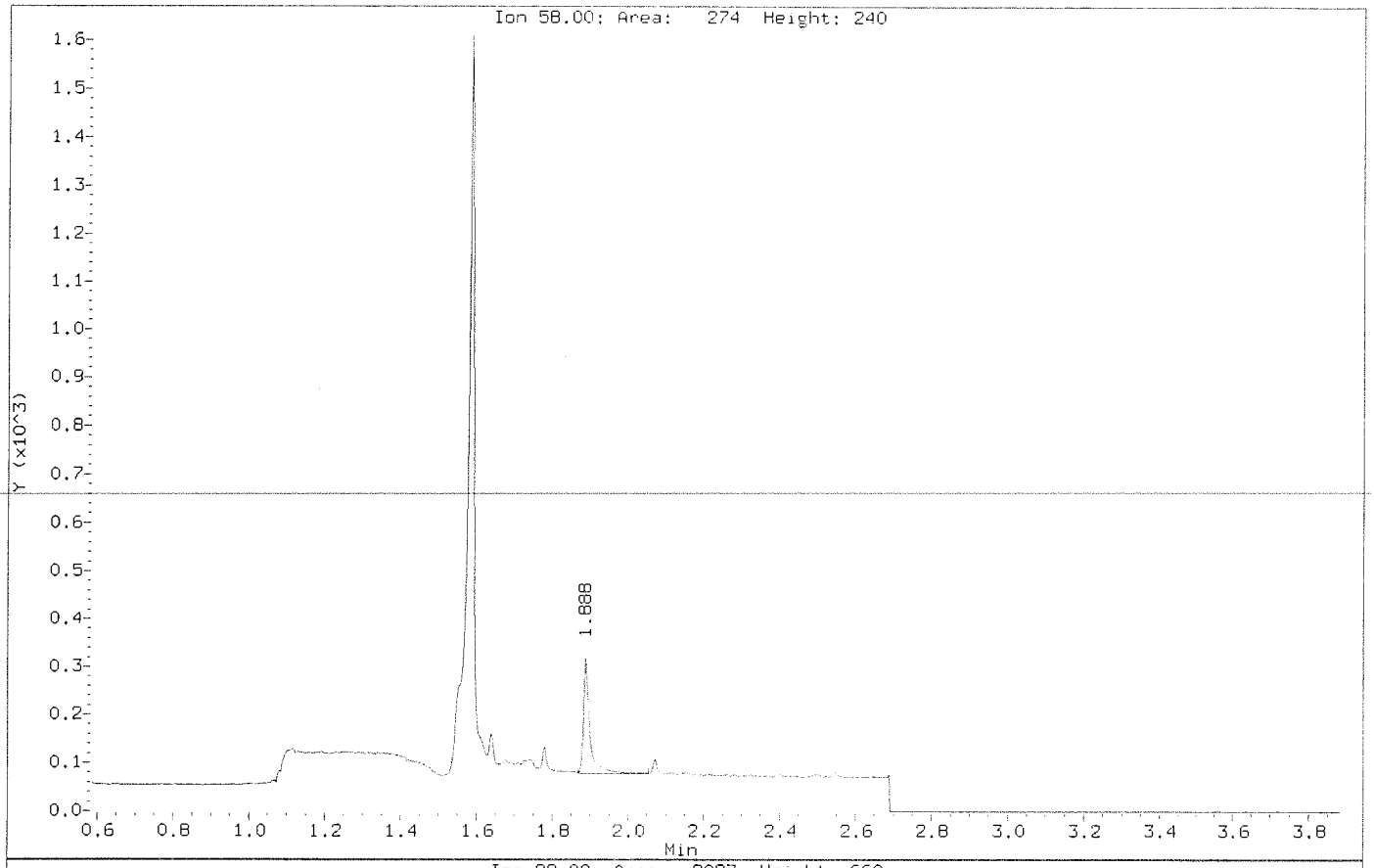


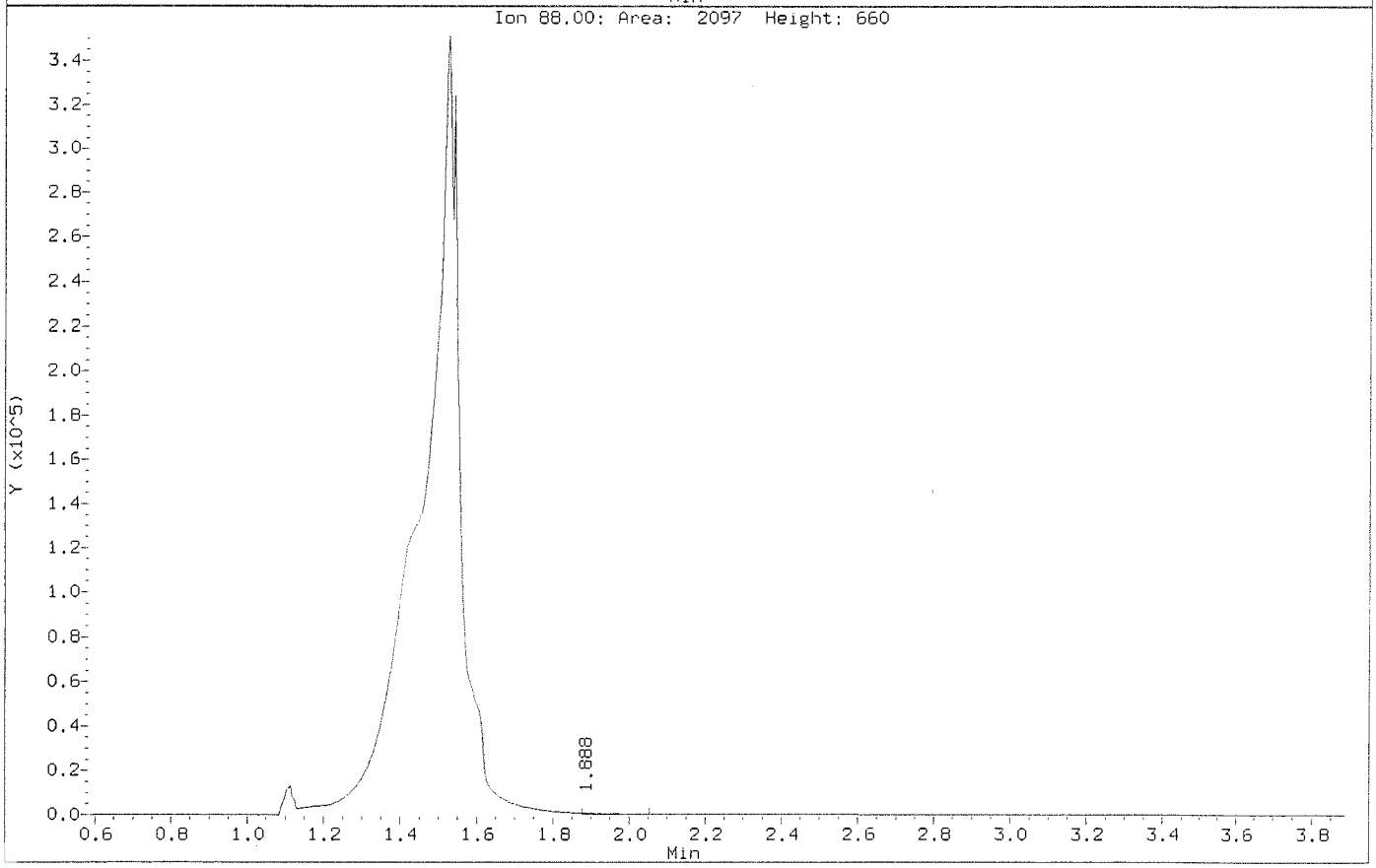




Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\Before\03.D
Injection Date: 23-AUG-2022 10:31
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

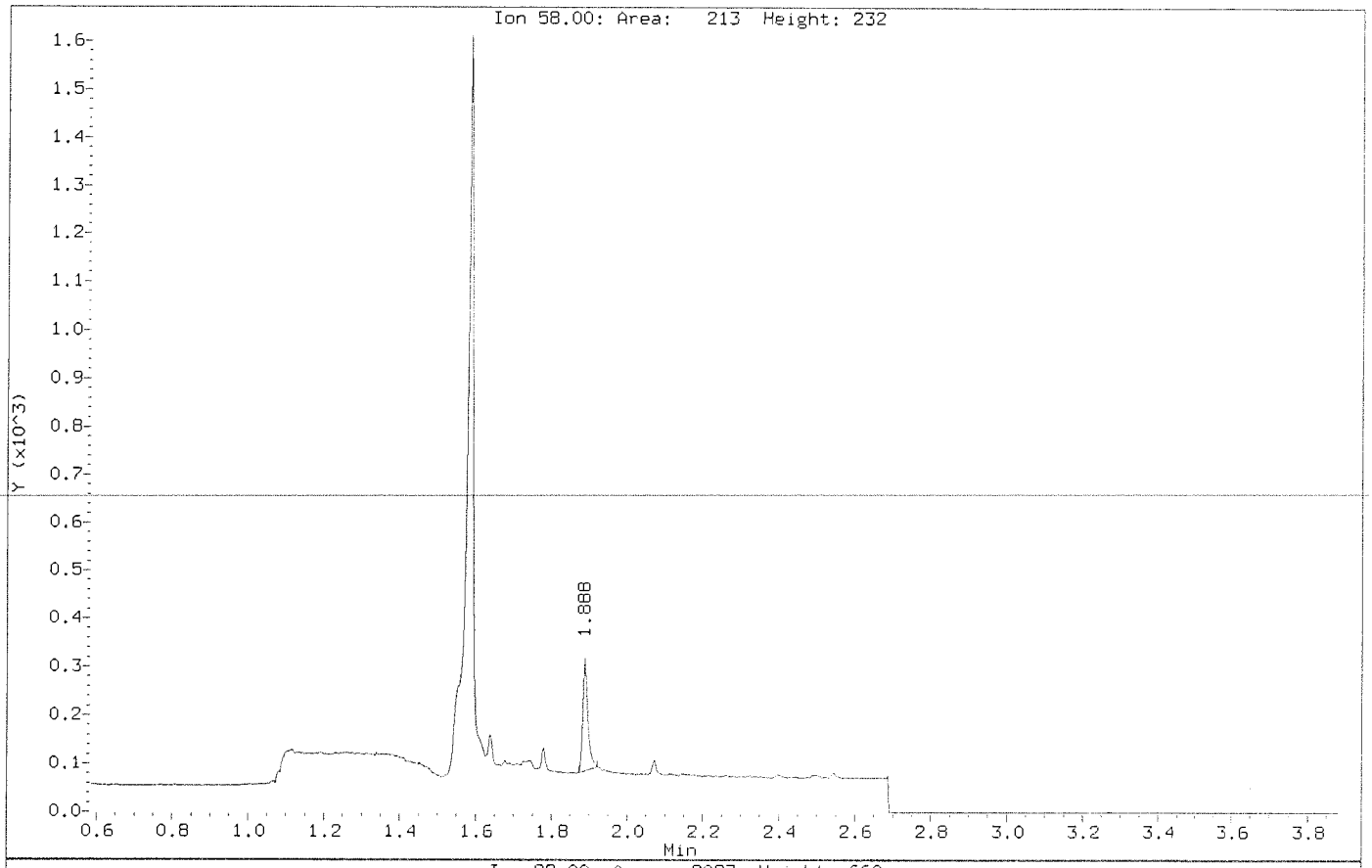
Compound: 1,4-Dioxane
CAS Number:

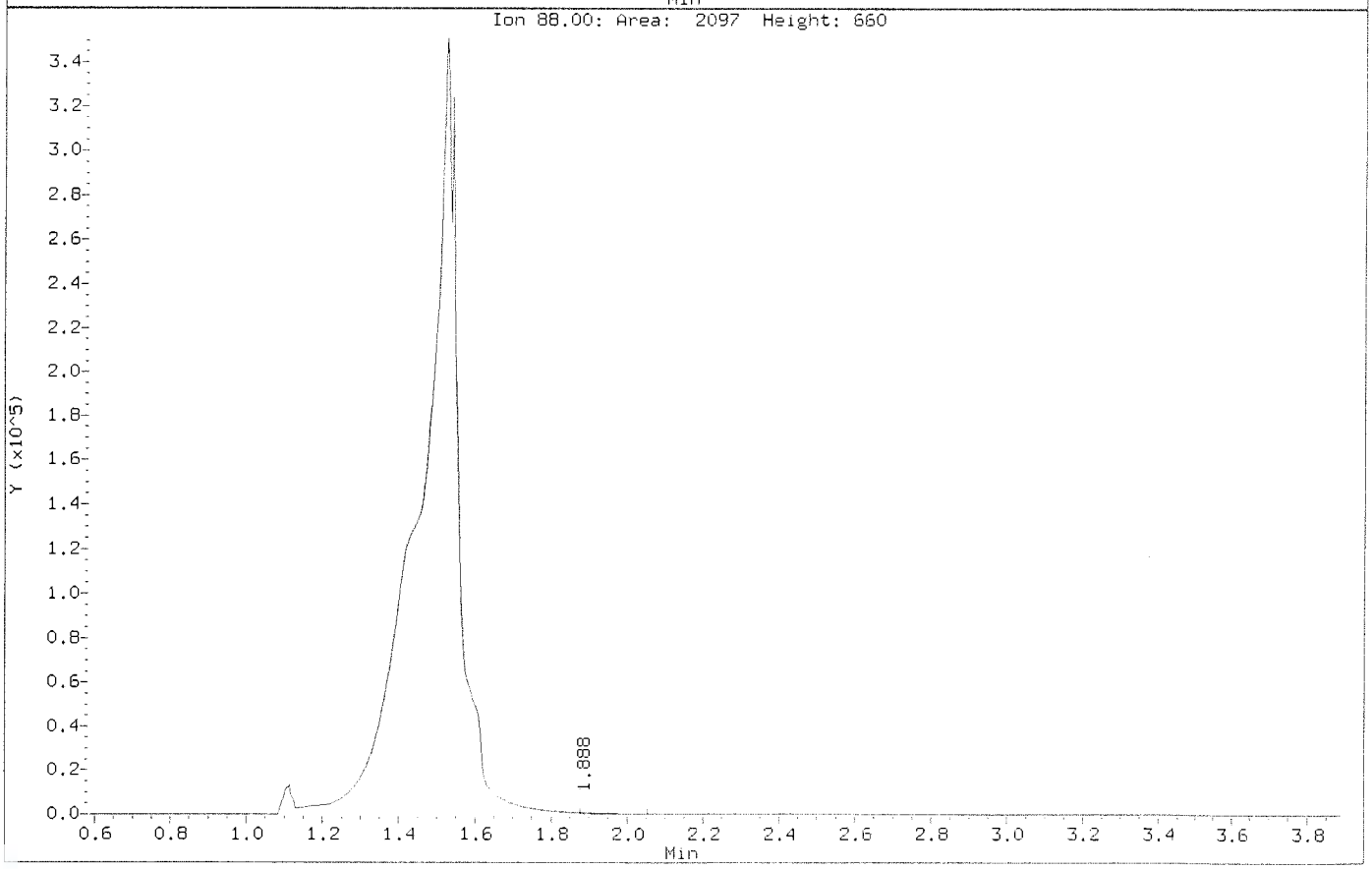




Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\03.D
Injection Date: 23-AUG-2022 10:31
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

Compound: 1,4-Dioxane
CAS Number:





Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\11.D Page 1
Report Date: 30-Aug-2022 13:31

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220823.b\11.D
Lab Smp Id: MBLK-182674 Client Smp ID: MBLK-182674
Inj Date : 23-AUG-2022 13:03
Operator : LG Inst ID: SV6.i
Smp Info : MBLK-182674
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220823.b\DXSIM.m
Meth Date : 30-Aug-2022 13:08 Linh.Pham Quant Type: ISTD
Cal Date : 10-MAR-2022 12:56 Cal File: 009.D
Als bottle: 9 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	3.598	3.609	(1.000)	3740	0.10000	(aQ)
* 45 Naphthalene-d8	136	4.705	4.723	(1.000)	16600	0.10000	
$ 33 Nitrobenzene-d5	82	4.059	4.113	(0.863)	3702	0.06690	0.06690(M)
* 86 Acenaphthene-d10	164	6.376	6.392	(1.000)	8229	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.718	5.718	(0.897)	4571	0.03569	0.03568(M)
* 126 Phenanthrene-d10	188	7.822	7.849	(1.000)	14728	0.10000	
* 182 Chrysene-d12	240	10.657	10.678	(1.000)	8245	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.408	9.425	(0.883)	7428	0.04792	0.04792(M)
* 198 Perylene-d12	264	12.719	12.751	(1.000)	5780	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.

01141482

Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\11.D

Date : 23-AUG-2022 13:03

Client ID: MBLK-182674

Instrument: SV6.i

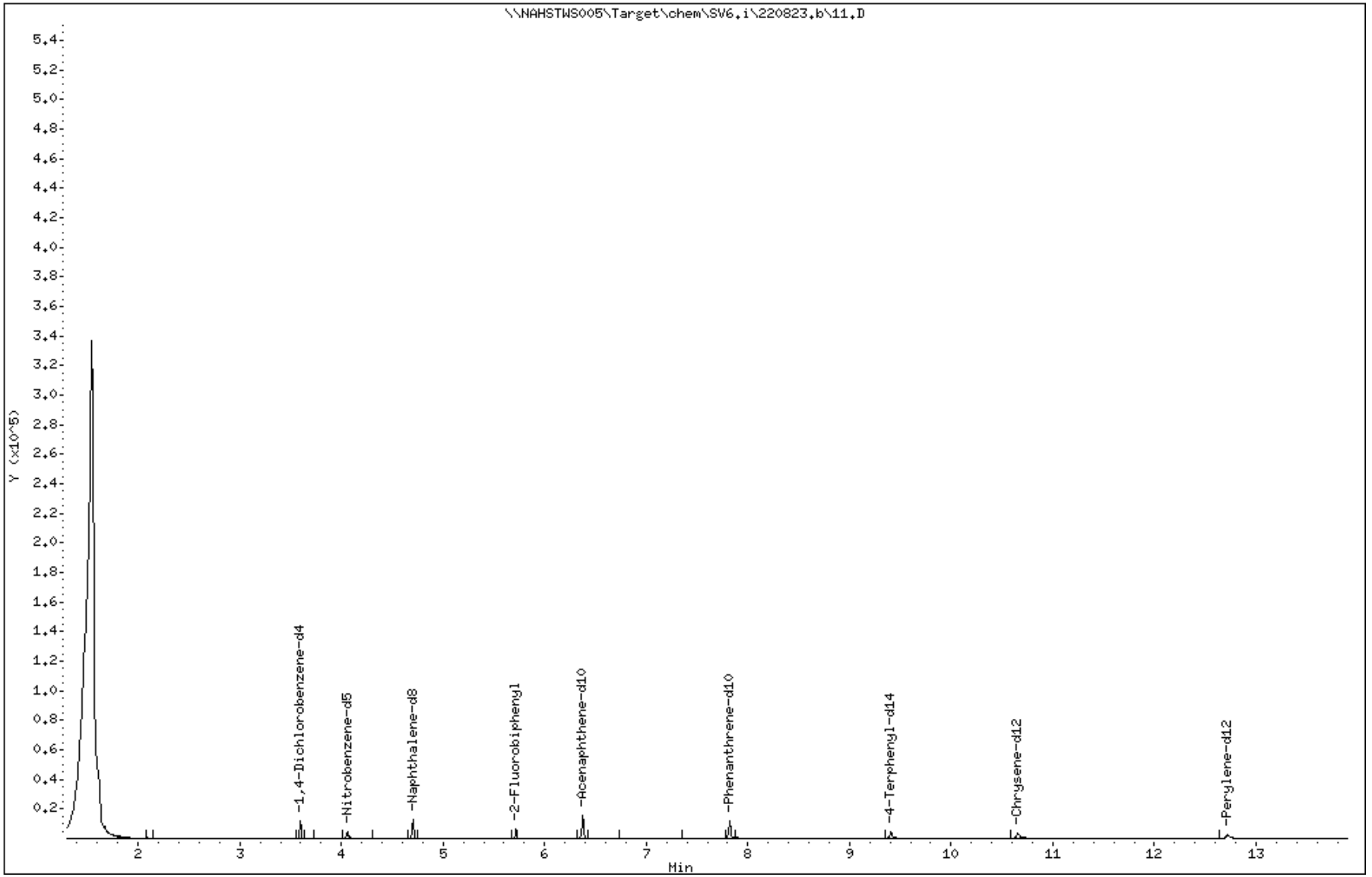
Sample Info: MBLK-182674

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



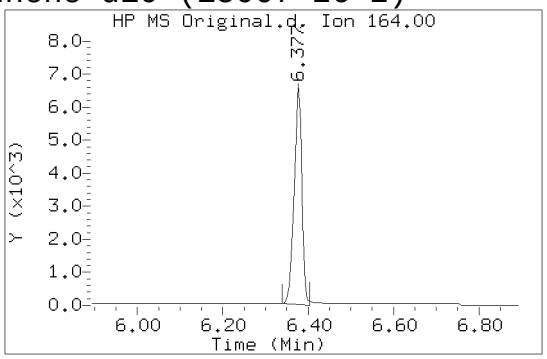
Data File : \\NAHSTWS005\Target\chem\SV6.i\220823.b\11.D
Inj Date : 23-AUG-2022 13:03
InstruID : SV6.i
LabSampID : MBLK-182674

Acenaphthene-d10 (15067-26-2)

Reason Code:

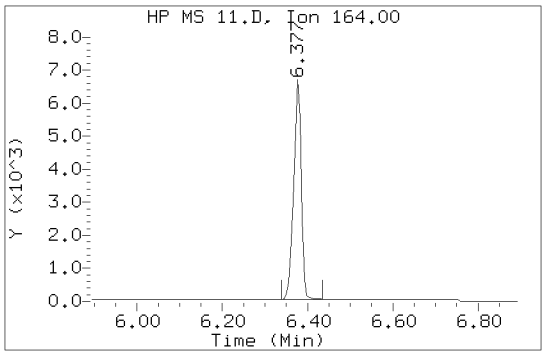
BEFORE

MASS
164
AREA
8316
HEIGHT
6684
23-Aug-2022
13:20
ALSHS
Server



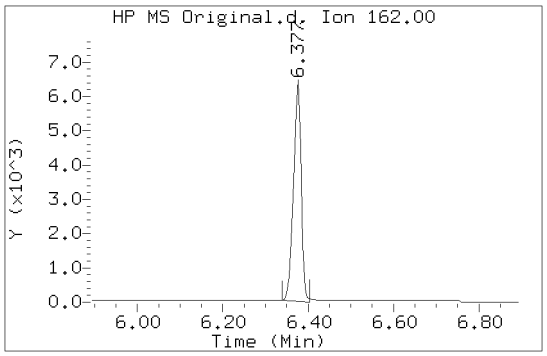
AFTER

MASS
164
AREA
8229
HEIGHT
6650
30-Aug-2022
13:31
ALSHS
Ser



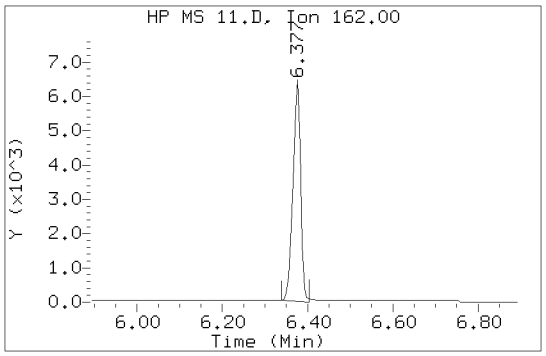
BEFORE

MASS
162
AREA
8047
HEIGHT
6461
23-Aug-2022
13:20
ALSHS
Server



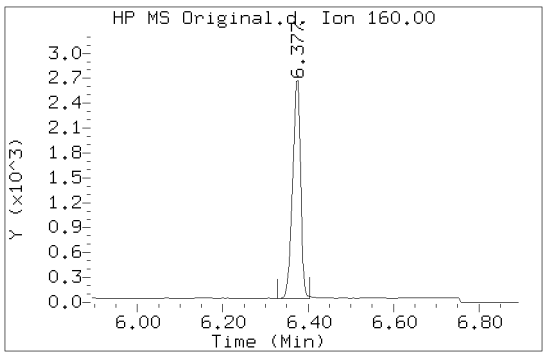
AFTER

MASS
162
AREA
8047
HEIGHT
6461
30-Aug-2022
13:31
ALSHS
Ser



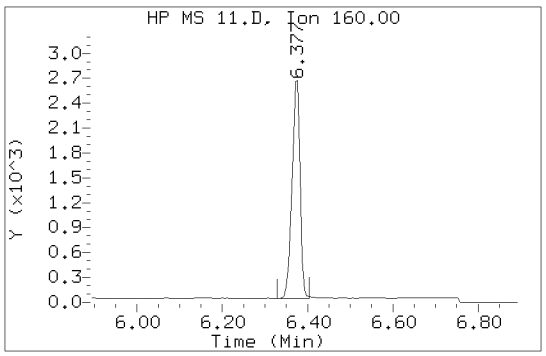
BEFORE

MASS
160
AREA
3415
HEIGHT
2621
23-Aug-2022
13:20
ALSHS
Server



AFTER

MASS
160
AREA
3415
HEIGHT
2621
30-Aug-2022
13:31
ALSHS
Ser

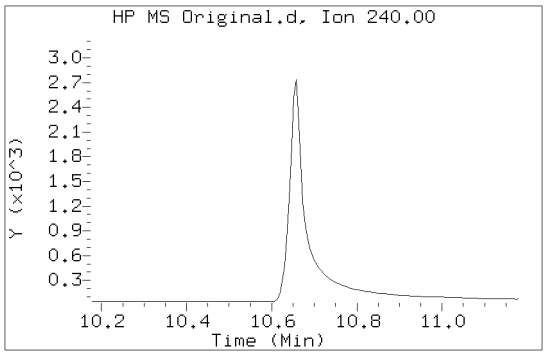


Chrysene-d12 (1719-03-5)

Reason Code:

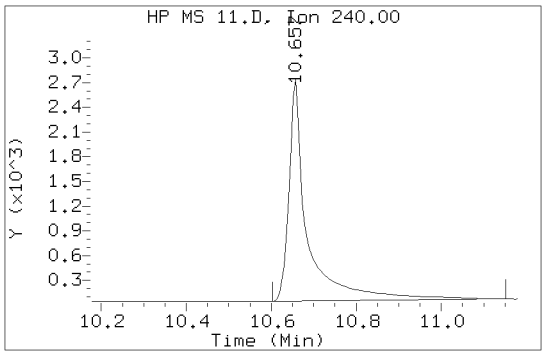
BEFORE

MASS
240
AREA
0
HEIGHT
0
23-Aug-2022
13:20
ALSHS
Server



AFTER

MASS
240
AREA
8245
HEIGHT
2685
30-Aug-2022
13:31
ALSHS
Ser



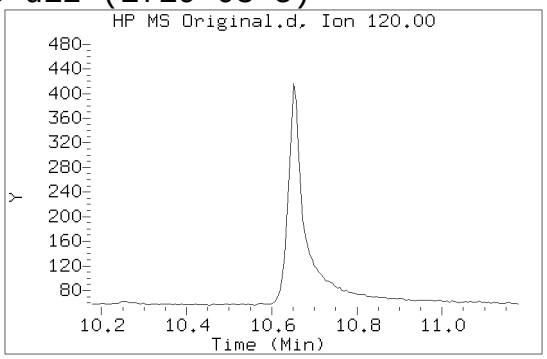
Data File : \\NAHSTWS005\Target\chem\SV6.i\220823.b\11.D
Inj Date : 23-AUG-2022 13:03
InstruID : SV6.i
LabSampID : MBLK-182674

Chrysene-d12 (1719-03-5)

Reason Code:

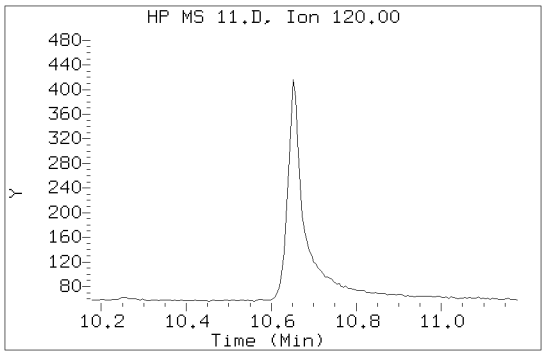
BEFORE

MASS
120
AREA
0
HEIGHT
0
23-Aug-2022
13:20
ALSHS
Server



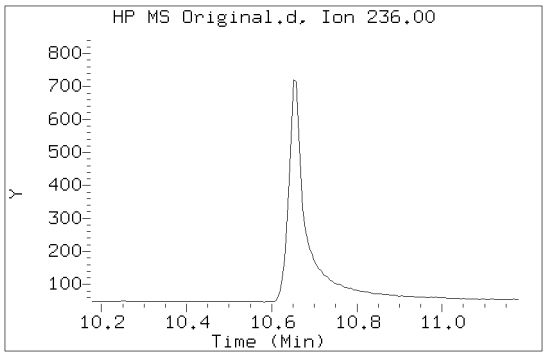
AFTER

MASS
120
AREA
0
HEIGHT
0
30-Aug-2022
13:31
ALSHS
Ser



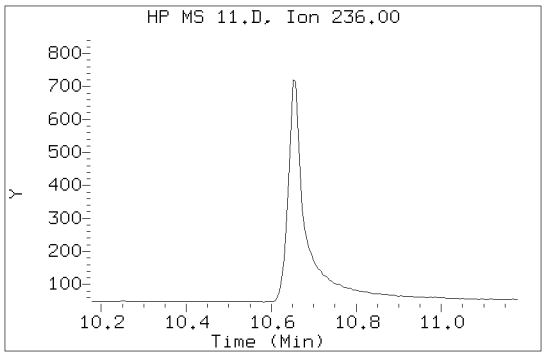
BEFORE

MASS
236
AREA
0
HEIGHT
0
23-Aug-2022
13:20
ALSHS
Server



AFTER

MASS
236
AREA
0
HEIGHT
0
30-Aug-2022
13:31
ALSHS
Ser

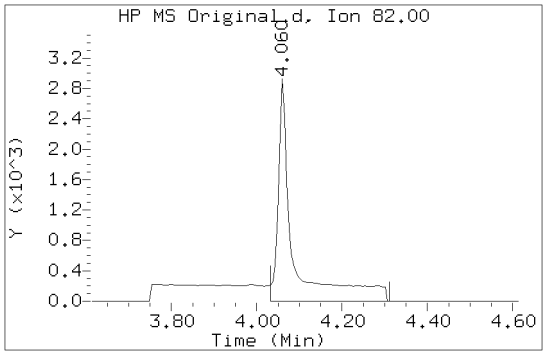


Nitrobenzene-d5 (4165-60-0)

Reason Code:

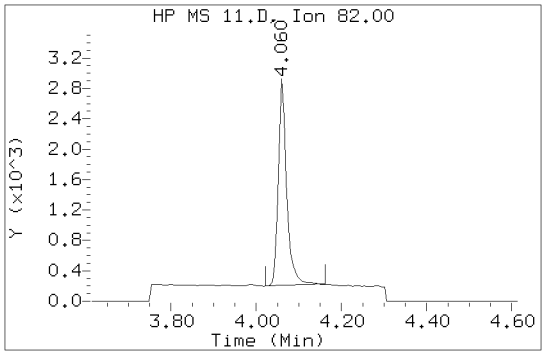
BEFORE

MASS
82
AREA
7081
HEIGHT
2925
23-Aug-2022
13:20
ALSHS
Server



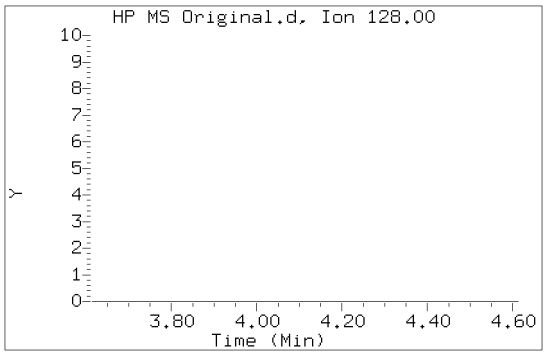
AFTER

MASS
82
AREA
3702
HEIGHT
2716
30-Aug-2022
13:31
ALSHS
Ser



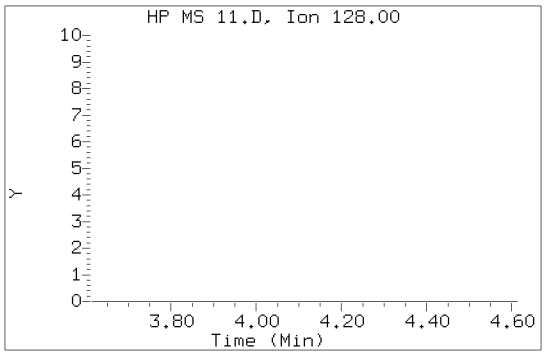
BEFORE

MASS
128
AREA
0
HEIGHT
0
23-Aug-2022
13:20
ALSHS
Server



AFTER

MASS
128
AREA
0
HEIGHT
0
30-Aug-2022
13:31
ALSHS
Ser



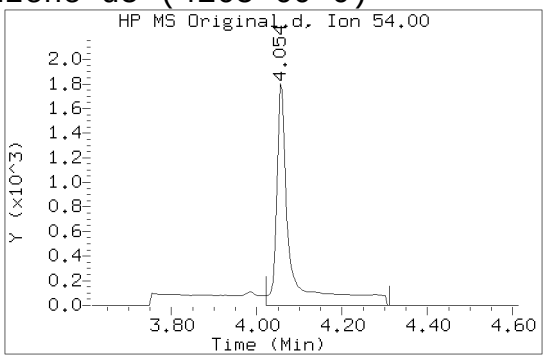
Data File : \\NAHSTWS005\Target\chem\SV6.i\220823.b\11.D
Inj Date : 23-AUG-2022 13:03
InstruID : SV6.i
LabSampID : MBLK-182674

Nitrobenzene-d5 (4165-60-0)

Reason Code:

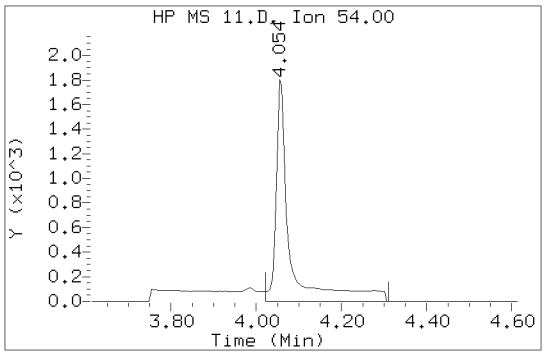
BEFORE

MASS
54
AREA
3970
HEIGHT
1802
23-Aug-2022
13:20
ALSHS
Server



AFTER

MASS
54
AREA
3970
HEIGHT
1802
30-Aug-2022
13:31
ALSHS
Ser

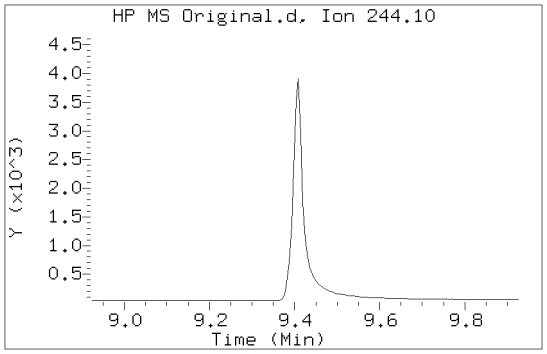


4-Terphenyl-d14 (1718-51-0)

Reason Code:

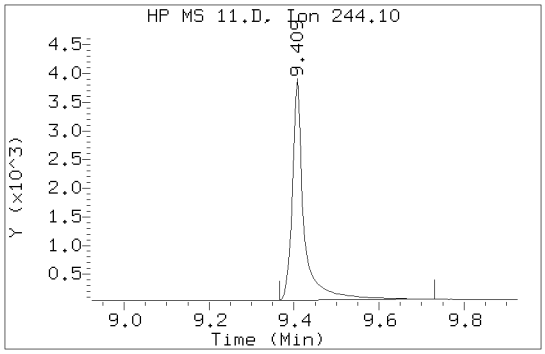
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
23-Aug-2022
13:20
ALSHS
Server



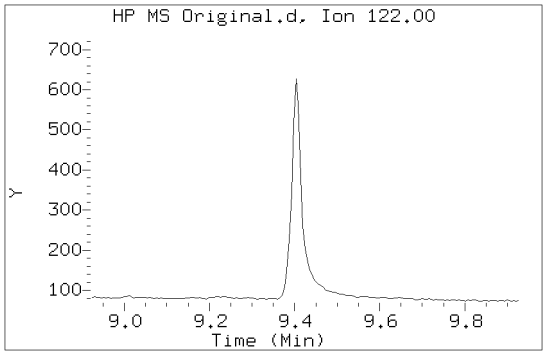
AFTER

MASS
244.1
AREA
7428
HEIGHT
3859
30-Aug-2022
13:31
ALSHS
Ser



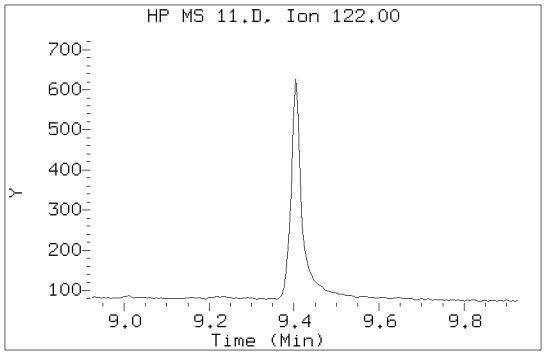
BEFORE

MASS
122
AREA
0
HEIGHT
0
23-Aug-2022
13:20
ALSHS
Server



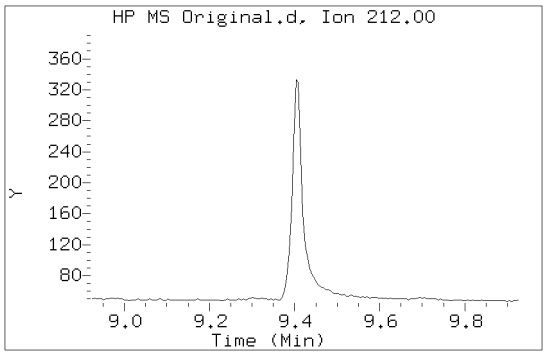
AFTER

MASS
122
AREA
0
HEIGHT
0
30-Aug-2022
13:31
ALSHS
Ser



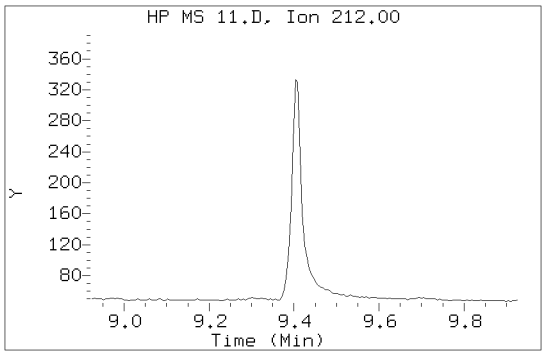
BEFORE

MASS
212
AREA
0
HEIGHT
0
23-Aug-2022
13:20
ALSHS
Server



AFTER

MASS
212
AREA
0
HEIGHT
0
30-Aug-2022
13:31
ALSHS
Ser



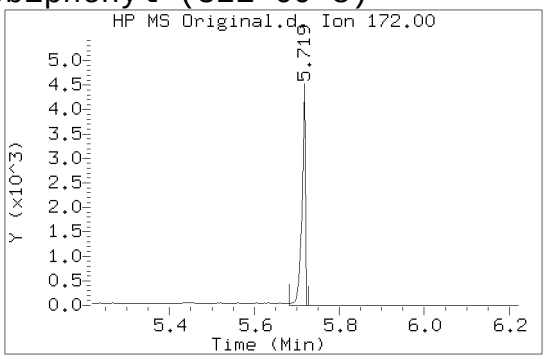
Data File : \\NAHSTWS005\Target\chem\SV6.i\220823.b\11.D
Inj Date : 23-AUG-2022 13:03
InstruID : SV6.i
LabSampID : MBLK-182674

2-Fluorobiphenyl (321-60-8)

Reason Code:

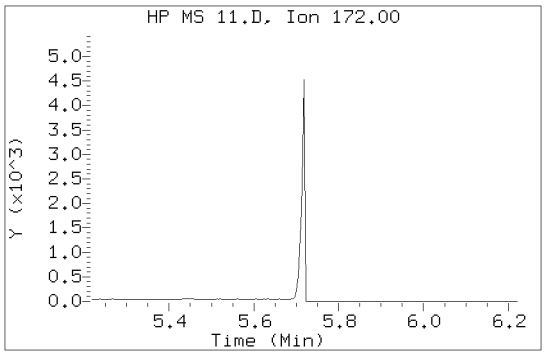
BEFORE

MASS
172
AREA
2640
HEIGHT
4527
23-Aug-2022
13:20
ALSHS
Server



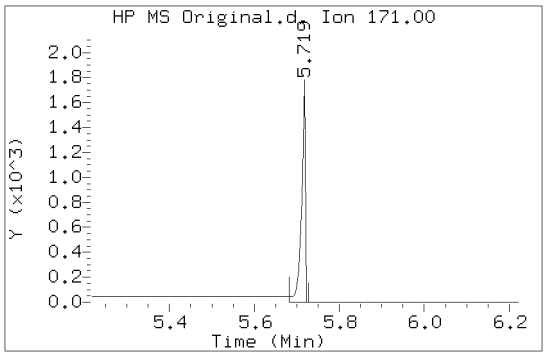
AFTER

MASS
172
AREA
4571
HEIGHT
4527
30-Aug-2022
13:31
ALSHS
Ser



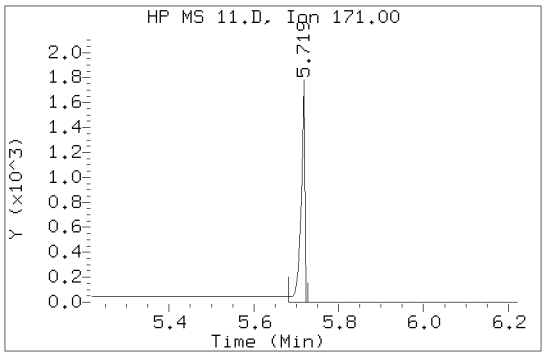
BEFORE

MASS
171
AREA
1150
HEIGHT
1781
23-Aug-2022
13:20
ALSHS
Server



AFTER

MASS
171
AREA
1150
HEIGHT
1781
30-Aug-2022
13:31
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\12.D Page 1
Report Date: 24-Aug-2022 10:26

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220823.b\12.D
Lab Smp Id: LCS-182674
Inj Date : 23-AUG-2022 13:21
Operator : LG Inst ID: SV6.i
Smp Info : LCS-182674
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220823.b\DXSIM.m
Meth Date : 24-Aug-2022 10:25 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 12:56 Cal File: 009.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7122

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	3.598	3.592	(1.000)	11766	0.10000	(aM)
* 45 Naphthalene-d8	136	4.705	4.705	(1.000)	15196	0.10000	
$ 33 Nitrobenzene-d5	82	4.059	4.059	(0.863)	3507	0.06923	0.06923(M)
* 86 Acenaphthene-d10	164	6.376	6.376	(1.000)	7453	0.10000	(Q)
$ 69 2-Fluorobiphenyl	172	5.718	5.718	(0.897)	4087	0.03523	0.03523(M)
* 126 Phenanthrene-d10	188	7.827	7.827	(1.000)	13138	0.10000	
* 182 Chrysene-d12	240	10.657	10.657	(1.000)	6821	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.408	9.408	(0.883)	6759	0.05271	0.05270(M)
* 198 Perylene-d12	264	12.724	12.724	(1.000)	4654	0.10000	
1 1,4-Dioxane	58	1.869	1.887	(0.520)	484	0.10020	0.1002(aM)

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.

01141488

Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\12.D

Page 1

Date : 23-AUG-2022 13:21

Client ID:

Instrument: SV6.i

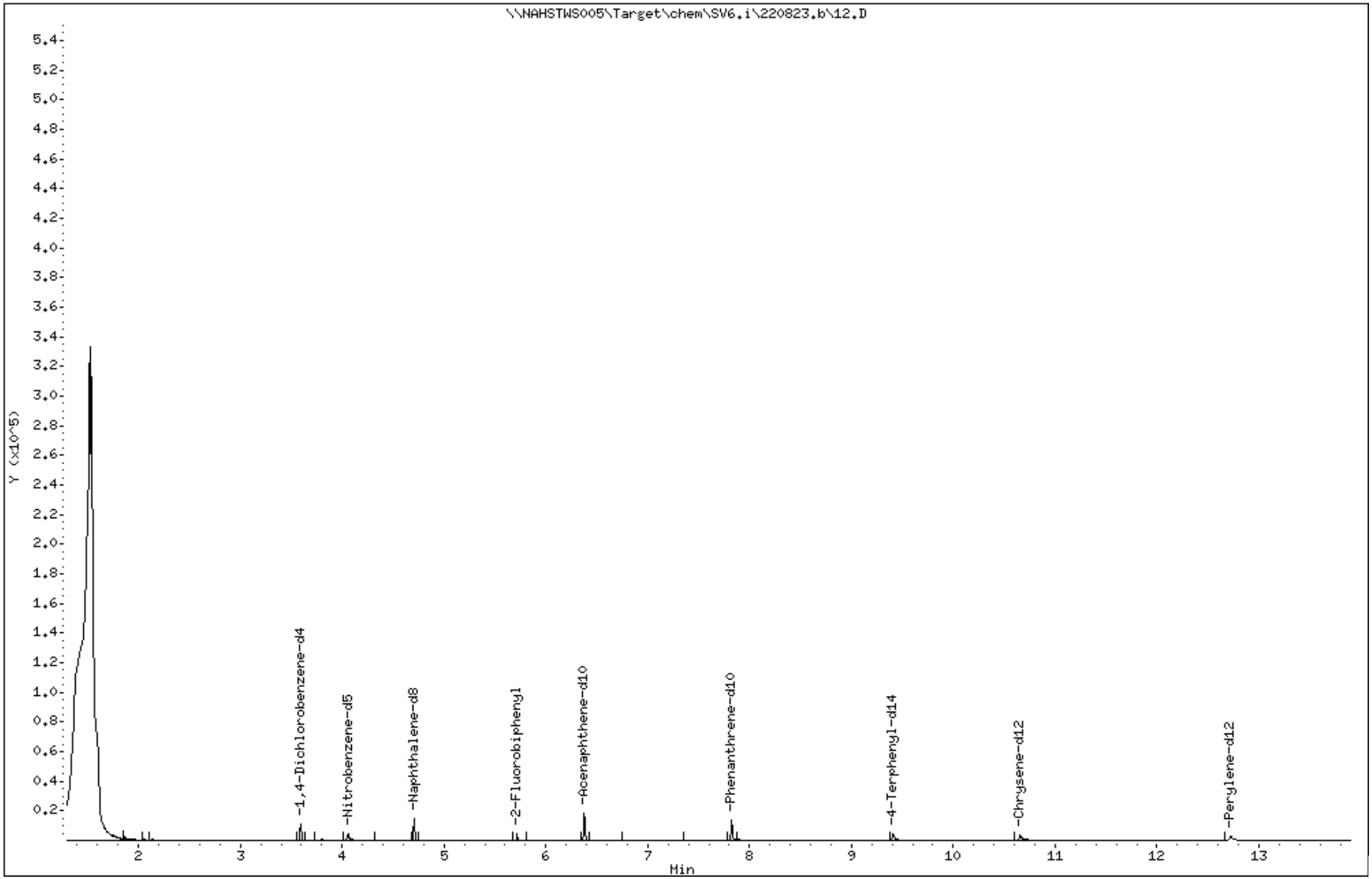
Sample Info: LCS-182674

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



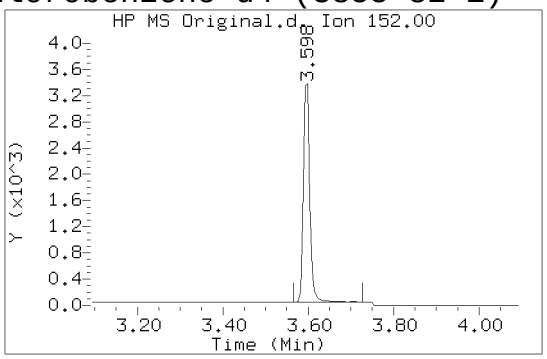
Data File : \\NAHSTWS005\Target\chem\SV6.i\220823.b\12.D
Inj Date : 23-AUG-2022 13:21
InstruID : SV6.i
LabSampID : LCS-182674

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

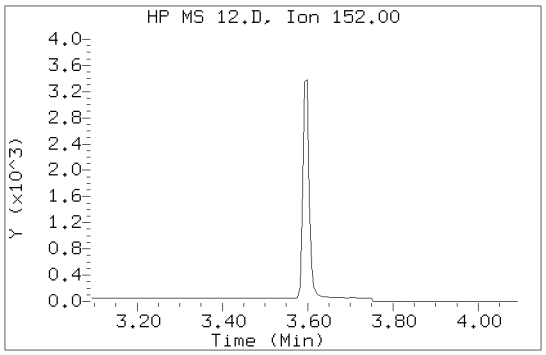
BEFORE

MASS
152
AREA
3420
HEIGHT
3334
23-Aug-2022
13:37
ALSHS
Server



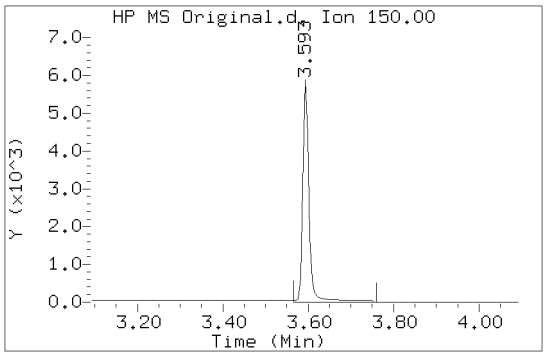
AFTER

MASS
152
AREA
11766
HEIGHT
3464
24-Aug-2022
10:25
ALSHS
S



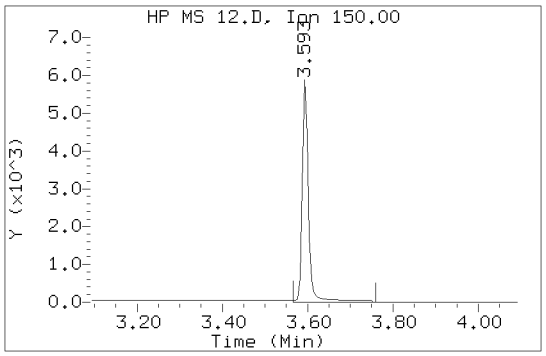
BEFORE

MASS
150
AREA
5940
HEIGHT
5880
23-Aug-2022
13:37
ALSHS
Server



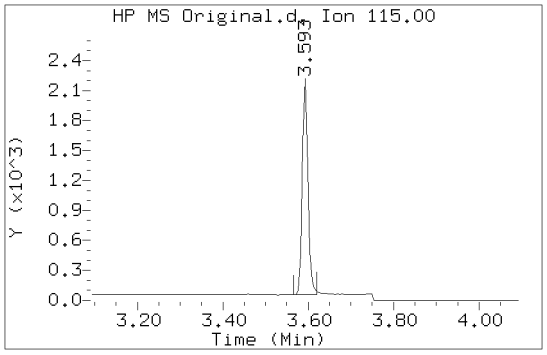
AFTER

MASS
150
AREA
5940
HEIGHT
5880
24-Aug-2022
10:25
ALSHS
S



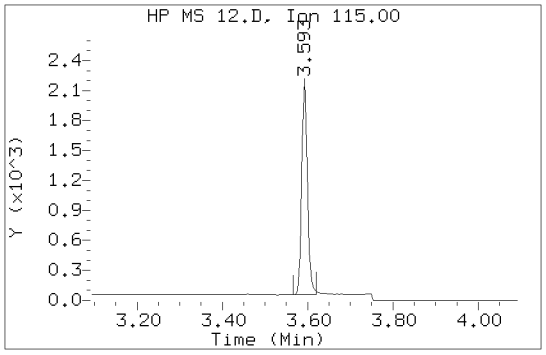
BEFORE

MASS
115
AREA
1952
HEIGHT
2164
23-Aug-2022
13:37
ALSHS
Server



AFTER

MASS
115
AREA
1952
HEIGHT
2164
24-Aug-2022
10:25
ALSHS
S

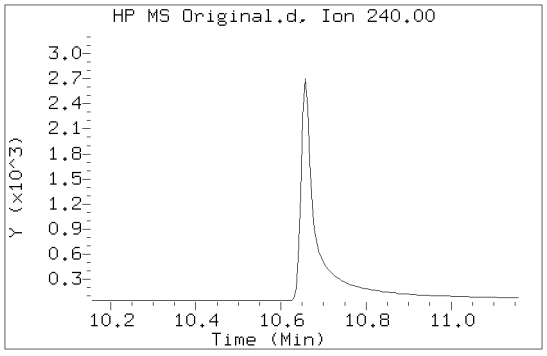


Chrysene-d12 (1719-03-5)

Reason Code:

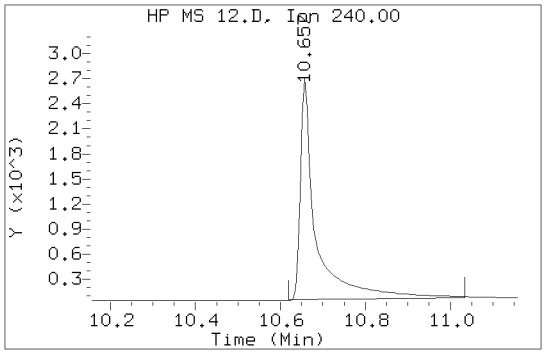
BEFORE

MASS
240
AREA
0
HEIGHT
0
23-Aug-2022
13:37
ALSHS
Server



AFTER

MASS
240
AREA
6821
HEIGHT
2648
24-Aug-2022
10:25
ALSHS
S



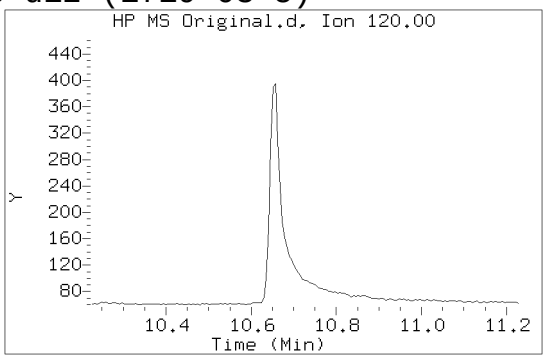
Data File : \\NAHSTWS005\Target\chem\SV6.i\220823.b\12.D
Inj Date : 23-AUG-2022 13:21
InstruID : SV6.i
LabSampID : LCS-182674

Chrysene-d12 (1719-03-5)

Reason Code:

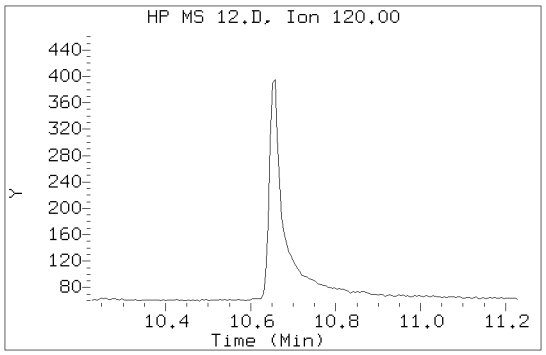
BEFORE

MASS
120
AREA
0
HEIGHT
0
23-Aug-2022
13:37
ALSHS
Server



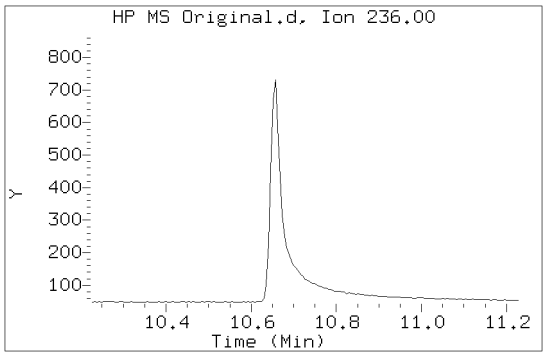
AFTER

MASS
120
AREA
0
HEIGHT
0
24-Aug-2022
10:25
ALSHS
S



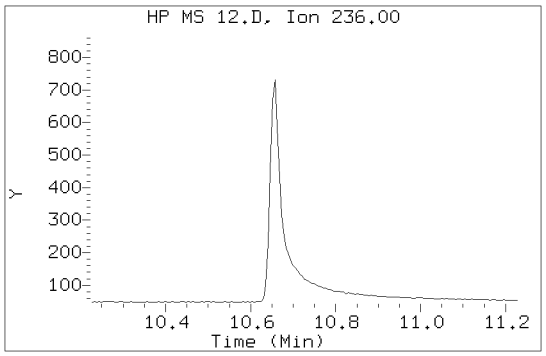
BEFORE

MASS
236
AREA
0
HEIGHT
0
23-Aug-2022
13:37
ALSHS
Server



AFTER

MASS
236
AREA
0
HEIGHT
0
24-Aug-2022
10:25
ALSHS
S

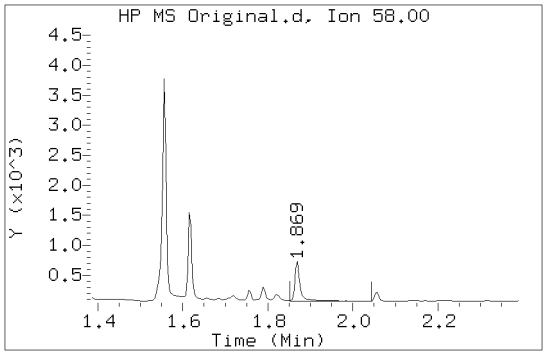


1,4-Dioxane ()

Reason Code:

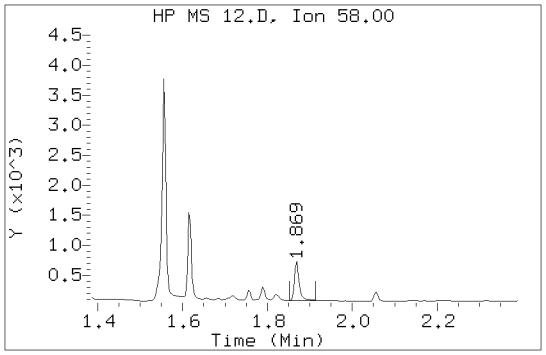
BEFORE

MASS
58
AREA
571
HEIGHT
661
23-Aug-2022
13:37
ALSHS
Server



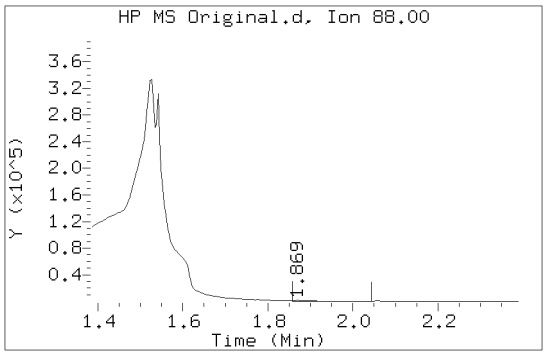
AFTER

MASS
58
AREA
484
HEIGHT
648
24-Aug-2022
10:25
ALSHS
S



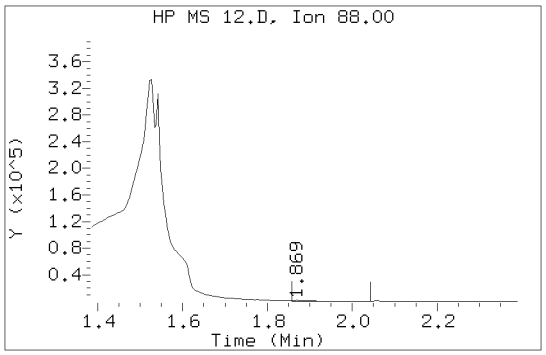
BEFORE

MASS
88
AREA
3455
HEIGHT
1311
23-Aug-2022
13:37
ALSHS
Server



AFTER

MASS
88
AREA
3455
HEIGHT
1311
24-Aug-2022
10:25
ALSHS
S



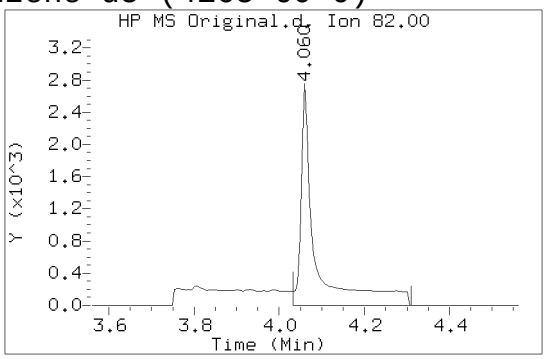
Data File : \\NAHSTWS005\Target\chem\SV6.i\220823.b\12.D
Inj Date : 23-AUG-2022 13:21
InstruID : SV6.i
LabSampID : LCS-182674

Nitrobenzene-d5 (4165-60-0)

Reason Code:

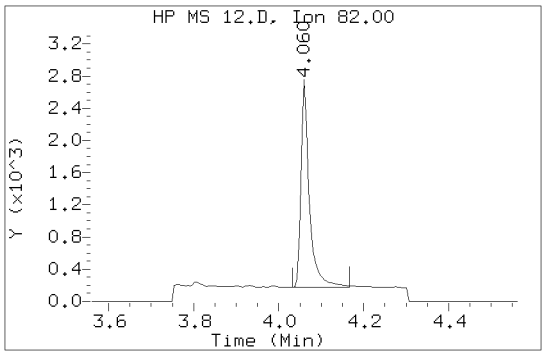
BEFORE

MASS
82
AREA
6385
HEIGHT
2755
23-Aug-2022
13:37
ALSHS
Server



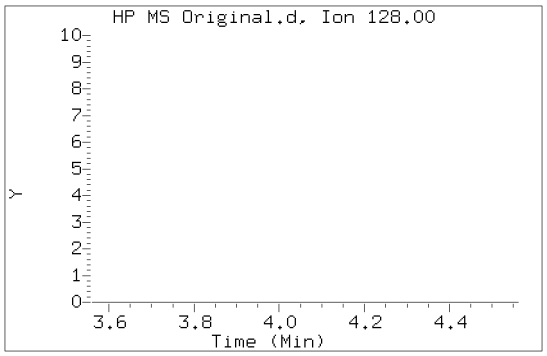
AFTER

MASS
82
AREA
3507
HEIGHT
2579
24-Aug-2022
10:25
ALSHS
S



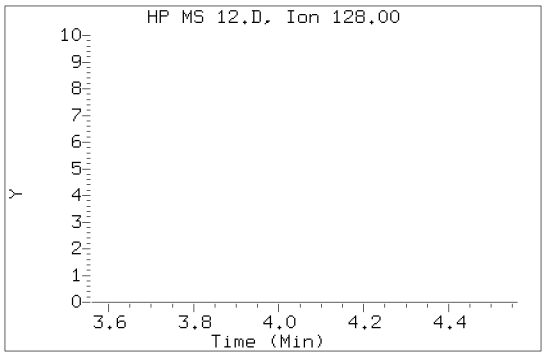
BEFORE

MASS
128
AREA
0
HEIGHT
0
23-Aug-2022
13:37
ALSHS
Server



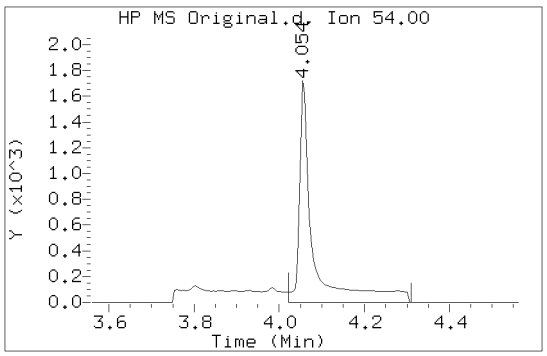
AFTER

MASS
128
AREA
0
HEIGHT
0
24-Aug-2022
10:25
ALSHS
S



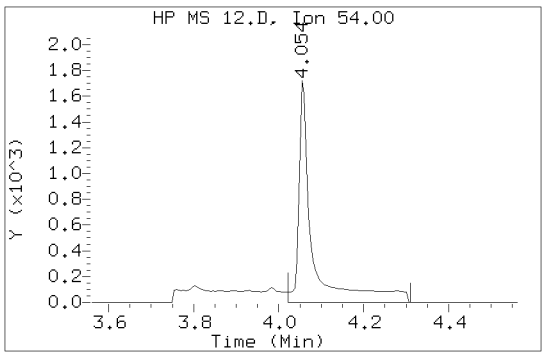
BEFORE

MASS
54
AREA
3784
HEIGHT
1720
23-Aug-2022
13:37
ALSHS
Server



AFTER

MASS
54
AREA
3784
HEIGHT
1720
24-Aug-2022
10:25
ALSHS
S

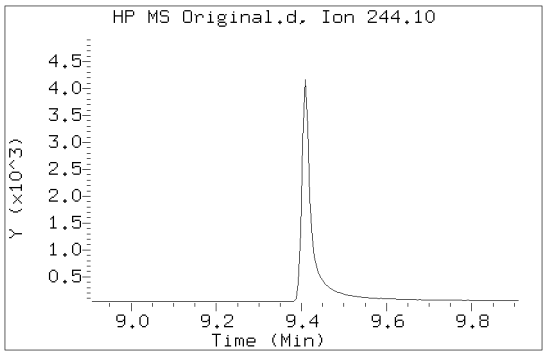


4-Terphenyl-d14 (1718-51-0)

Reason Code:

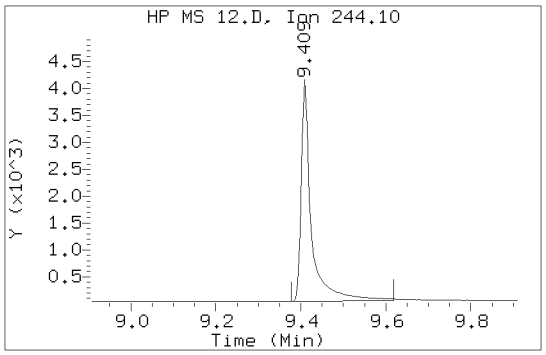
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
23-Aug-2022
13:37
ALSHS
Server



AFTER

MASS
244.1
AREA
6759
HEIGHT
4118
24-Aug-2022
10:25
ALSHS
S

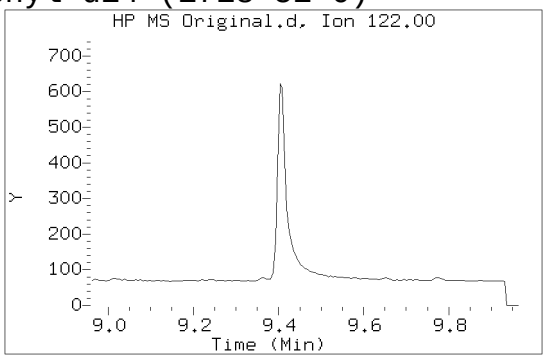


Data File : \\NAHSTWS005\Target\chem\SV6.i\220823.b\12.D
Inj Date : 23-AUG-2022 13:21
InstruID : SV6.i
LabSampID : LCS-182674

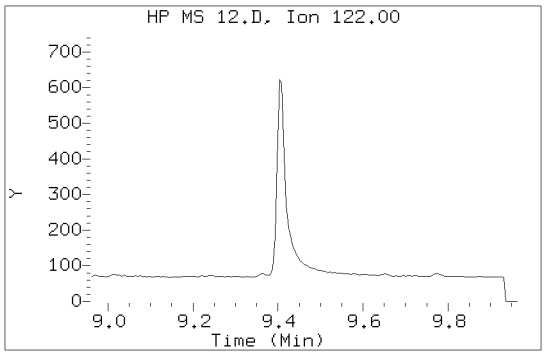
4-Terphenyl-d14 (1718-51-0)

Reason Code:

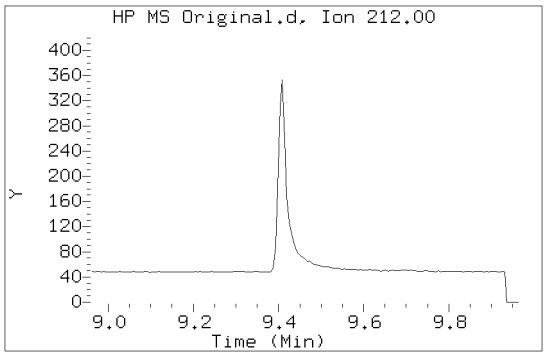
BEFORE
MASS
122
AREA
0
HEIGHT
0
23-Aug-2022
13:37
ALSHS
Server



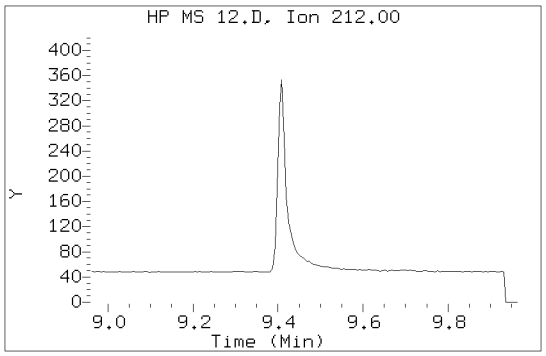
AFTER
MASS
122
AREA
0
HEIGHT
0
24-Aug-2022
10:25
ALSHS
S



BEFORE
MASS
212
AREA
0
HEIGHT
0
23-Aug-2022
13:37
ALSHS
Server



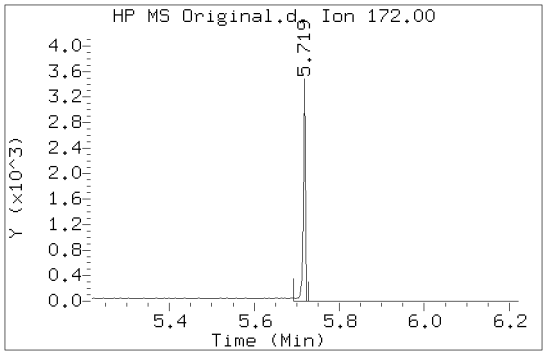
AFTER
MASS
212
AREA
0
HEIGHT
0
24-Aug-2022
10:25
ALSHS
S



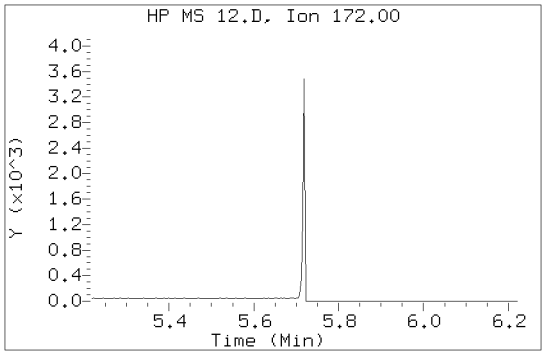
2-Fluorobiphenyl (321-60-8)

Reason Code:

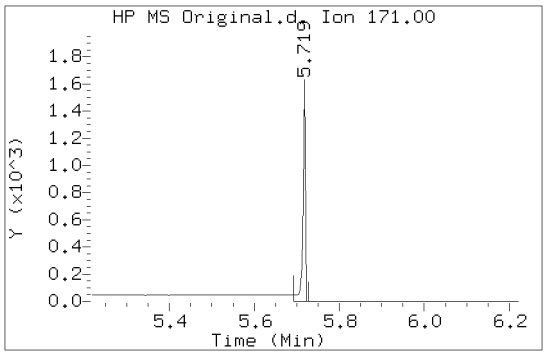
BEFORE
MASS
172
AREA
1268
HEIGHT
3484
23-Aug-2022
13:37
ALSHS
Server



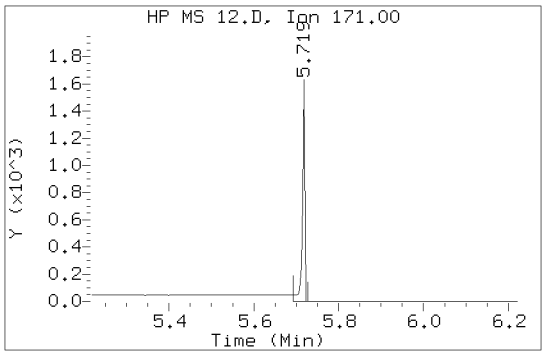
AFTER
MASS
172
AREA
4087
HEIGHT
3521
24-Aug-2022
10:25
ALSHS
S



BEFORE
MASS
171
AREA
676
HEIGHT
1631
23-Aug-2022
13:37
ALSHS
Server



AFTER
MASS
171
AREA
676
HEIGHT
1631
24-Aug-2022
10:25
ALSHS
S



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220823.b\13.D
Lab Smp Id: LCSD-182674
Inj Date : 23-AUG-2022 13:39
Operator : LG Inst ID: SV6.i
Smp Info : LCSD-182674
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220823.b\DXSIM.m
Meth Date : 24-Aug-2022 10:25 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 12:56 Cal File: 009.D
Als bottle: 10 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7122

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	3.598	3.592	(1.000)	6088	0.10000	(aM)
* 45 Naphthalene-d8	136	4.705	4.705	(1.000)	15376	0.10000	
$ 33 Nitrobenzene-d5	82	4.059	4.059	(0.863)	3571	0.06967	0.06967(M)
* 86 Acenaphthene-d10	164	6.376	6.376	(1.000)	7630	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.718	5.718	(0.897)	4371	0.03680	0.03680(M)
* 126 Phenanthrene-d10	188	7.827	7.827	(1.000)	13386	0.10000	
* 182 Chrysene-d12	240	10.657	10.657	(1.000)	7419	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.408	9.408	(0.883)	7027	0.05038	0.05038(M)
* 198 Perylene-d12	264	12.724	12.724	(1.000)	4882	0.10000	
1 1,4-Dioxane	58	1.873	1.887	(0.521)	273	0.10923	0.1092(aM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

01141494

Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\13.D

Date : 23-AUG-2022 13:39

Client ID:

Instrument: SV6.i

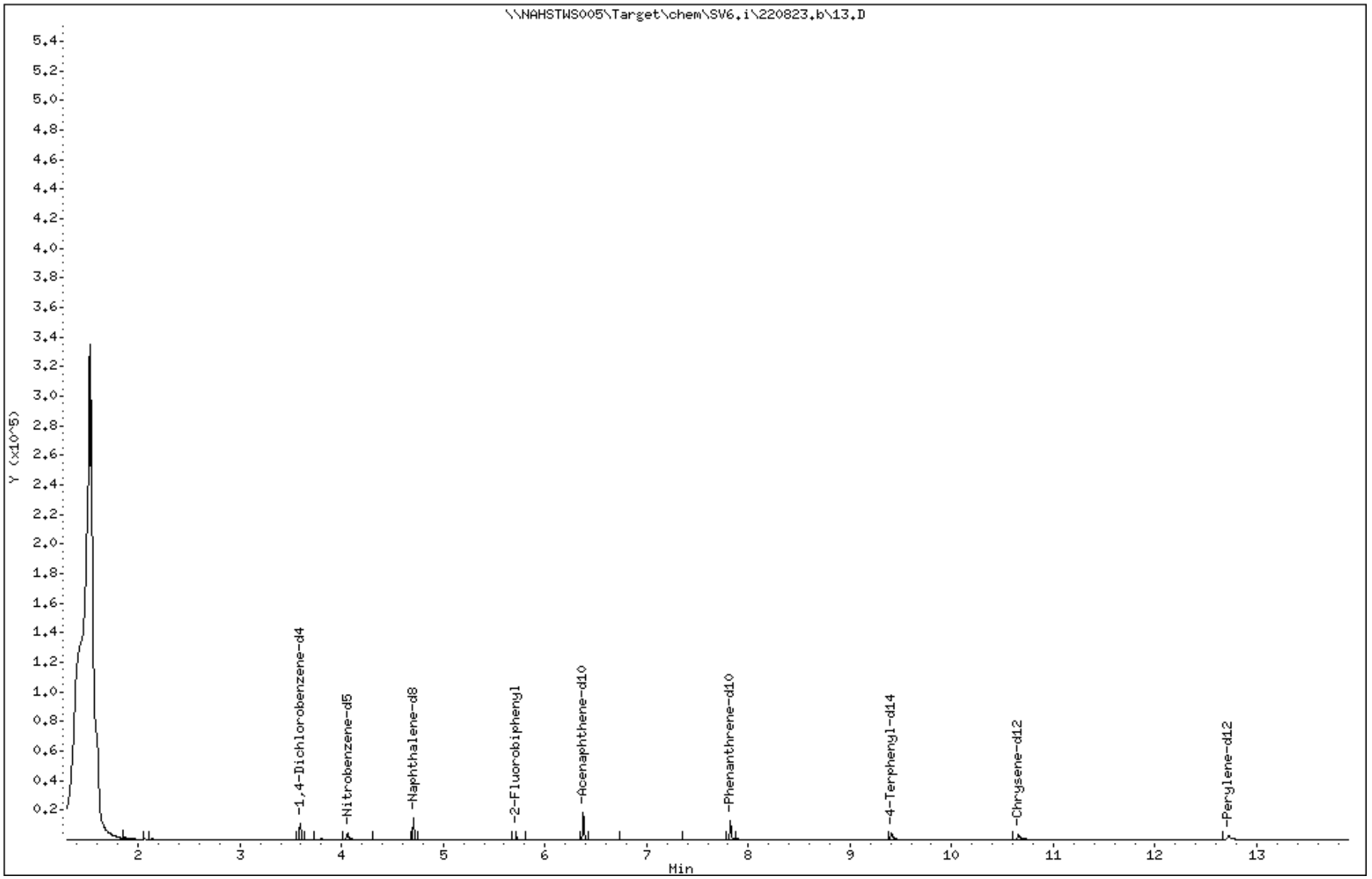
Sample Info: LCSD-182674

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



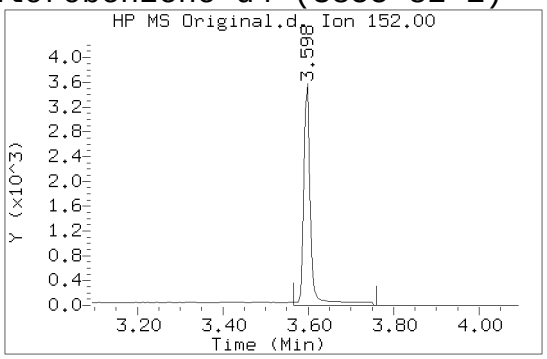
Data File : \\NAHSTWS005\Target\chem\SV6.i\220823.b\13.D
Inj Date : 23-AUG-2022 13:39
InstruID : SV6.i
LabSampID : LCSD-182674

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

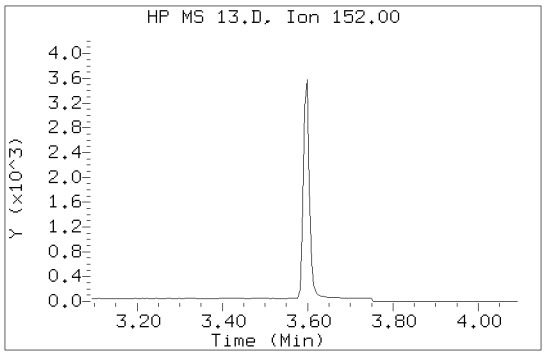
BEFORE

MASS
152
AREA
4008
HEIGHT
3576
23-Aug-2022
13:54
ALSHS
Server



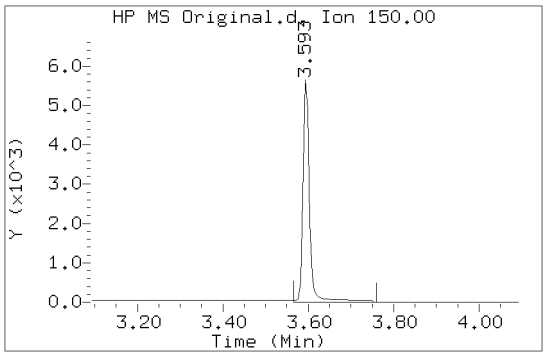
AFTER

MASS
152
AREA
6088
HEIGHT
3576
24-Aug-2022
10:25
ALSHS
S



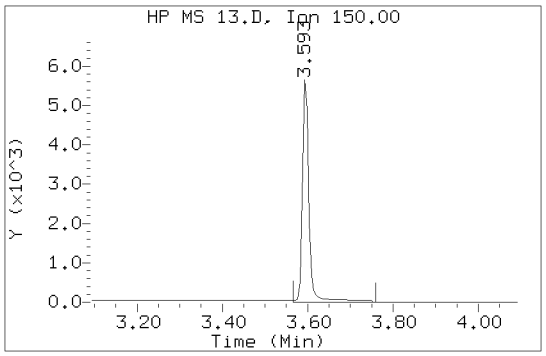
BEFORE

MASS
150
AREA
6022
HEIGHT
5653
23-Aug-2022
13:54
ALSHS
Server



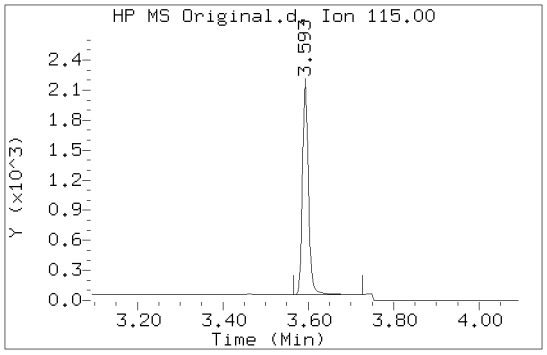
AFTER

MASS
150
AREA
6022
HEIGHT
5653
24-Aug-2022
10:25
ALSHS
S



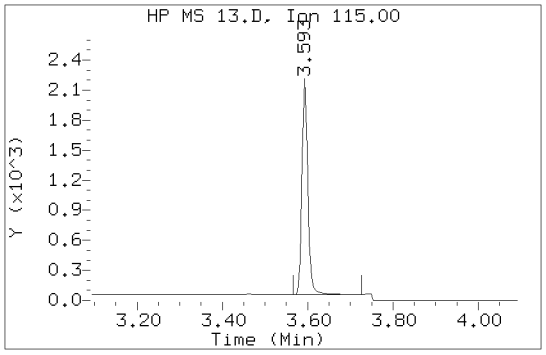
BEFORE

MASS
115
AREA
2039
HEIGHT
2159
23-Aug-2022
13:54
ALSHS
Server



AFTER

MASS
115
AREA
2039
HEIGHT
2159
24-Aug-2022
10:25
ALSHS
S

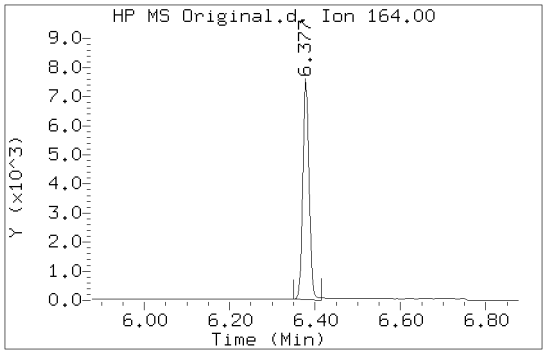


Acenaphthene-d10 (15067-26-2)

Reason Code:

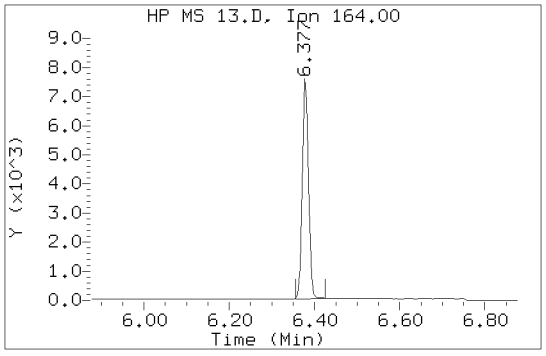
BEFORE

MASS
164
AREA
7731
HEIGHT
7587
23-Aug-2022
13:54
ALSHS
Server



AFTER

MASS
164
AREA
7630
HEIGHT
7567
24-Aug-2022
10:25
ALSHS
S



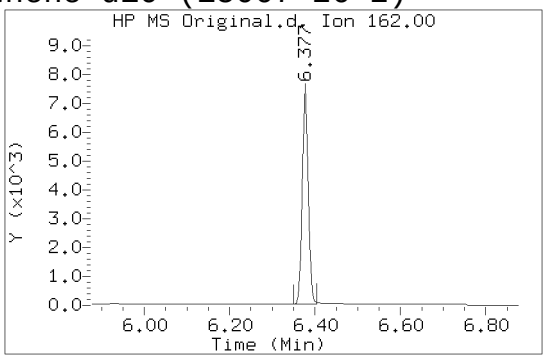
Data File : \\NAHSTWS005\Target\chem\SV6.i\220823.b\13.D
Inj Date : 23-AUG-2022 13:39
InstruID : SV6.i
LabSampID : LCSD-182674

Acenaphthene-d10 (15067-26-2)

Reason Code:

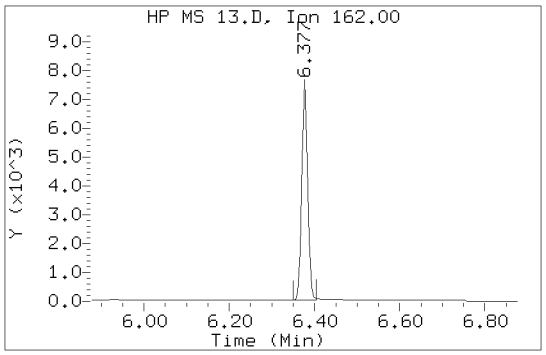
BEFORE

MASS
162
AREA
7300
HEIGHT
7640
23-Aug-2022
13:54
ALSHS
Server



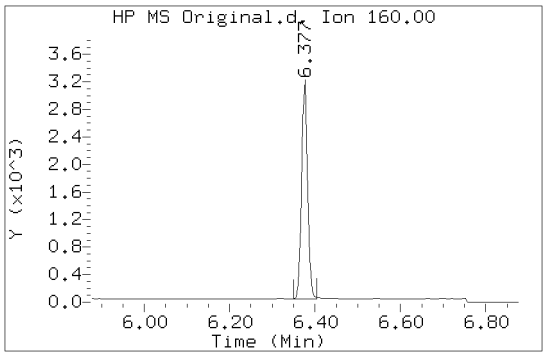
AFTER

MASS
162
AREA
7300
HEIGHT
7640
24-Aug-2022
10:25
ALSHS
S



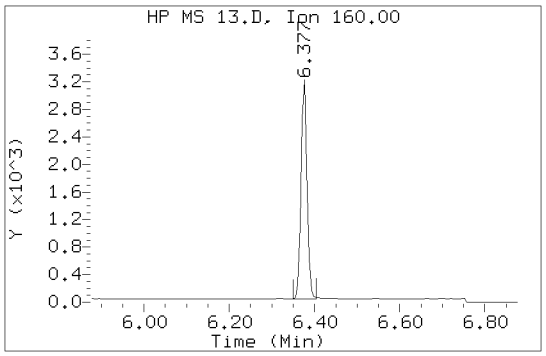
BEFORE

MASS
160
AREA
3134
HEIGHT
3180
23-Aug-2022
13:54
ALSHS
Server



AFTER

MASS
160
AREA
3134
HEIGHT
3180
24-Aug-2022
10:25
ALSHS
S

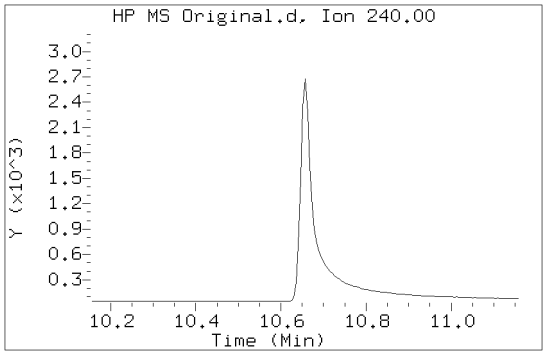


Chrysene-d12 (1719-03-5)

Reason Code:

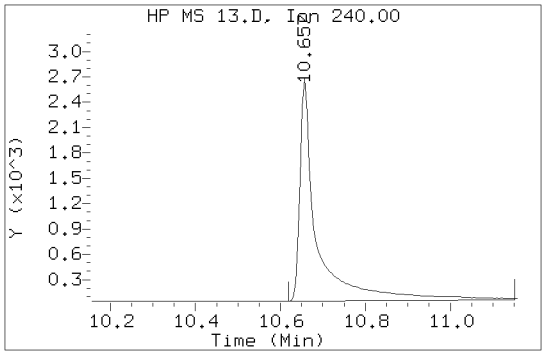
BEFORE

MASS
240
AREA
0
HEIGHT
0
23-Aug-2022
13:54
ALSHS
Server



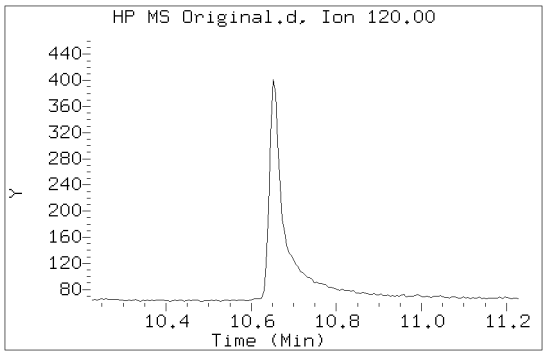
AFTER

MASS
240
AREA
7419
HEIGHT
2628
24-Aug-2022
10:25
ALSHS
S



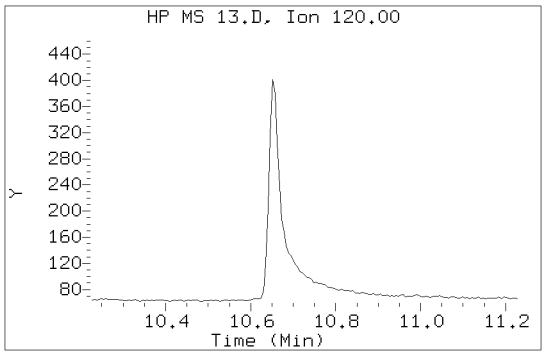
BEFORE

MASS
120
AREA
0
HEIGHT
0
23-Aug-2022
13:54
ALSHS
Server



AFTER

MASS
120
AREA
0
HEIGHT
0
24-Aug-2022
10:25
ALSHS
S



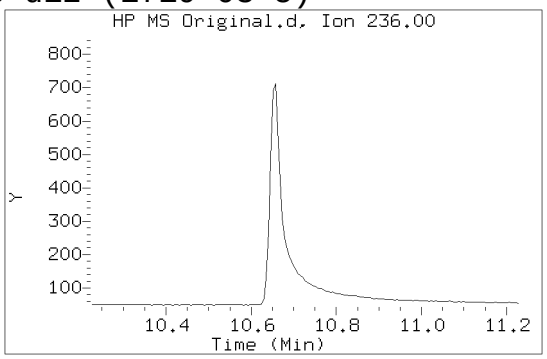
Data File : \\NAHSTWS005\Target\chem\SV6.i\220823.b\13.D
Inj Date : 23-AUG-2022 13:39
InstruID : SV6.i
LabSampID : LCSD-182674

Chrysene-d12 (1719-03-5)

Reason Code:

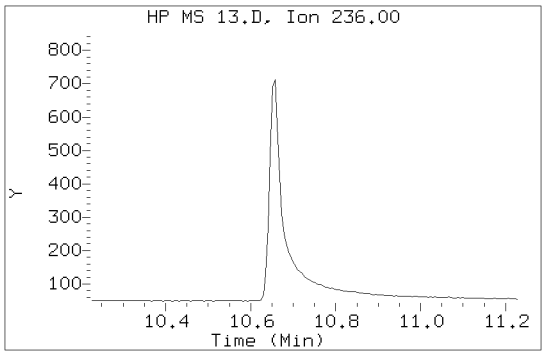
BEFORE

MASS
236
AREA
0
HEIGHT
0
23-Aug-2022
13:54
ALSHS
Server



AFTER

MASS
236
AREA
0
HEIGHT
0
24-Aug-2022
10:25
ALSHS
S

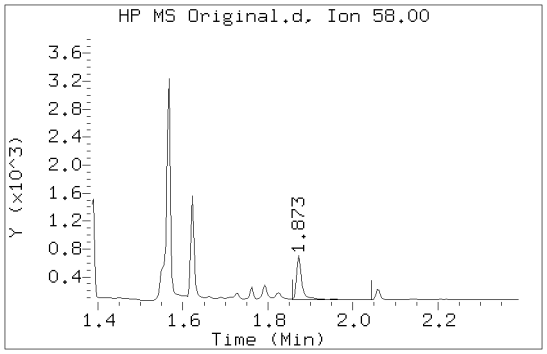


1,4-Dioxane ()

Reason Code:

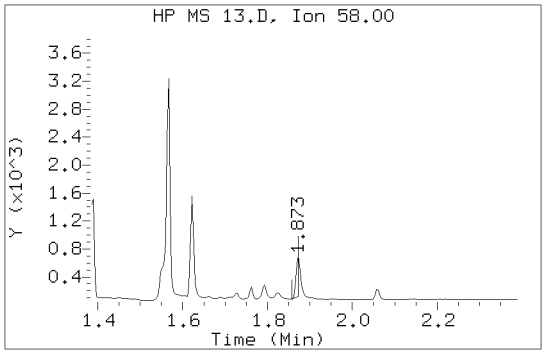
BEFORE

MASS
58
AREA
564
HEIGHT
634
23-Aug-2022
13:54
ALSHS
Server



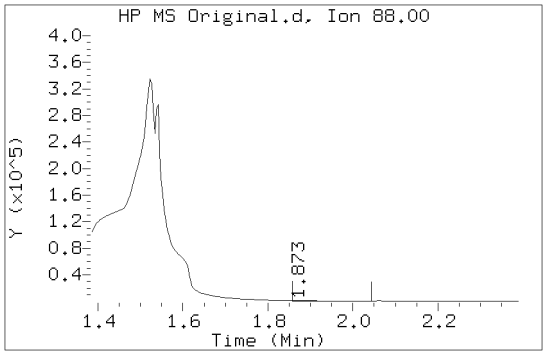
AFTER

MASS
58
AREA
273
HEIGHT
587
24-Aug-2022
10:25
ALSHS
S



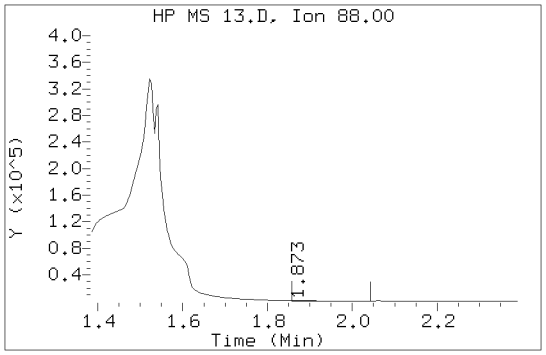
BEFORE

MASS
88
AREA
3203
HEIGHT
1234
23-Aug-2022
13:54
ALSHS
Server



AFTER

MASS
88
AREA
3203
HEIGHT
1234
24-Aug-2022
10:25
ALSHS
S

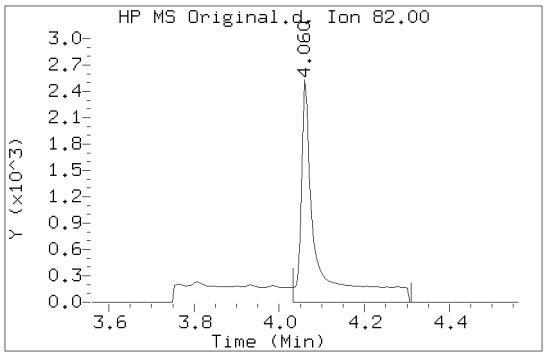


Nitrobenzene-d5 (4165-60-0)

Reason Code:

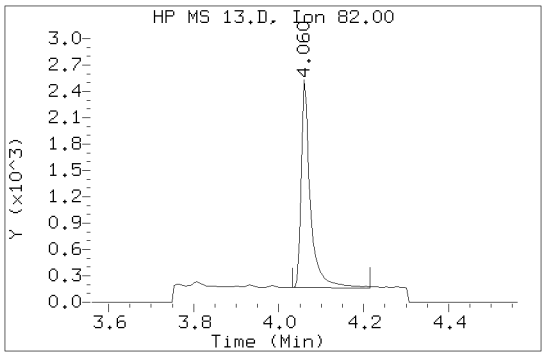
BEFORE

MASS
82
AREA
6260
HEIGHT
2530
23-Aug-2022
13:54
ALSHS
Server



AFTER

MASS
82
AREA
3571
HEIGHT
2364
24-Aug-2022
10:25
ALSHS
S

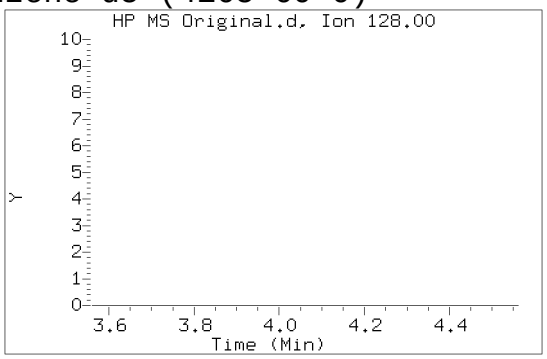


Data File : \\NAHSTWS005\Target\chem\SV6.i\220823.b\13.D
Inj Date : 23-AUG-2022 13:39
InstruID : SV6.i
LabSampID : LCSD-182674

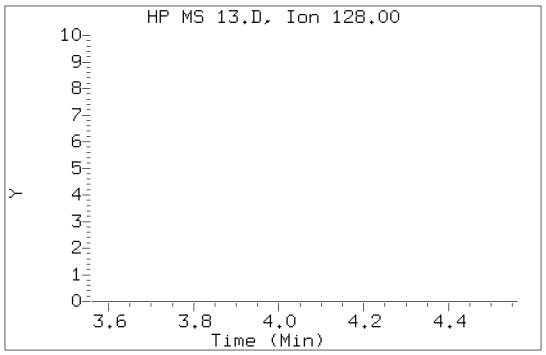
Nitrobenzene-d5 (4165-60-0)

Reason Code:

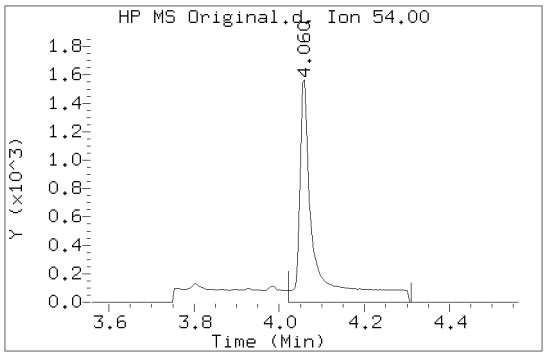
BEFORE
MASS
128
AREA
0
HEIGHT
0
23-Aug-2022
13:54
ALSHS
Server



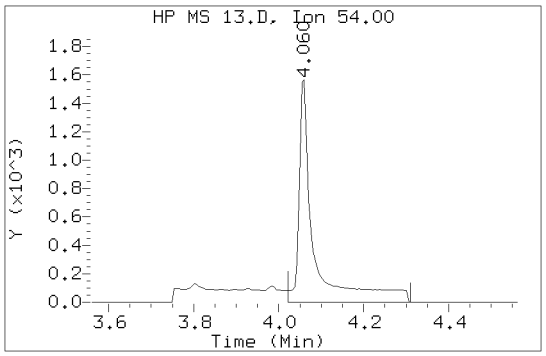
AFTER
MASS
128
AREA
0
HEIGHT
0
24-Aug-2022
10:25
ALSHS
S



BEFORE
MASS
54
AREA
3759
HEIGHT
1565
23-Aug-2022
13:54
ALSHS
Server



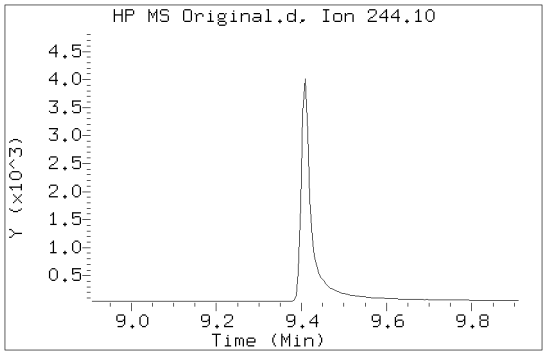
AFTER
MASS
54
AREA
3759
HEIGHT
1565
24-Aug-2022
10:25
ALSHS
S



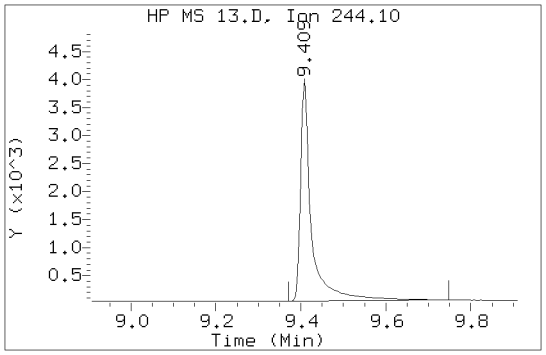
4-Terphenyl-d14 (1718-51-0)

Reason Code:

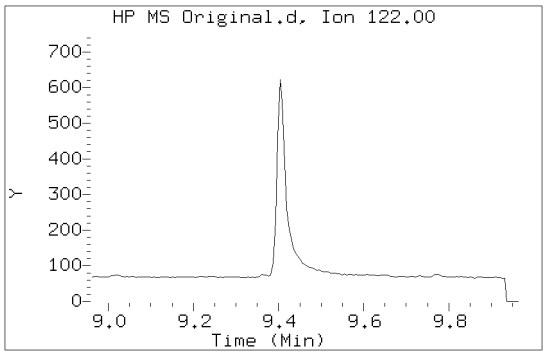
BEFORE
MASS
244.1
AREA
0
HEIGHT
0
23-Aug-2022
13:54
ALSHS
Server



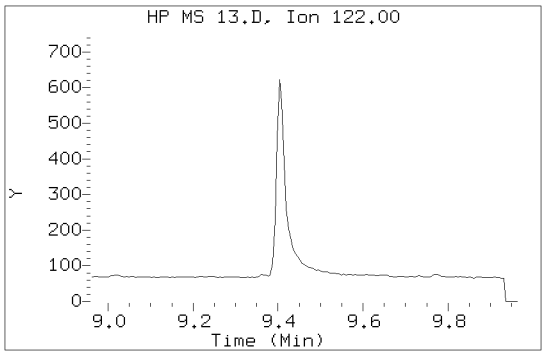
AFTER
MASS
244.1
AREA
7027
HEIGHT
3964
24-Aug-2022
10:25
ALSHS
S



BEFORE
MASS
122
AREA
0
HEIGHT
0
23-Aug-2022
13:54
ALSHS
Server



AFTER
MASS
122
AREA
0
HEIGHT
0
24-Aug-2022
10:25
ALSHS
S



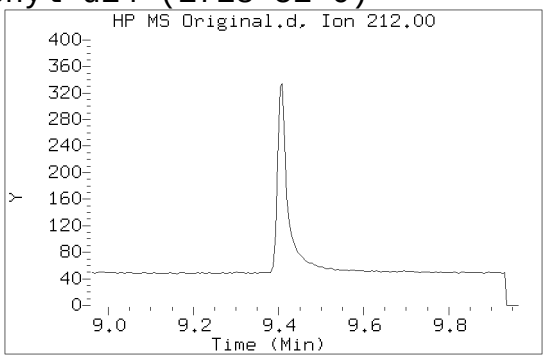
Data File : \\NAHSTWS005\Target\chem\SV6.i\220823.b\13.D
Inj Date : 23-AUG-2022 13:39
InstruID : SV6.i
LabSampID : LCSD-182674

4-Terphenyl-d14 (1718-51-0)

Reason Code:

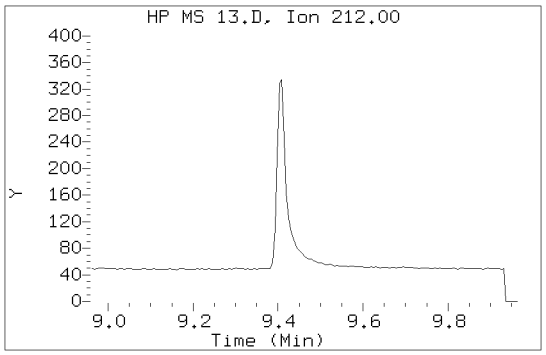
BEFORE

MASS
212
AREA
0
HEIGHT
0
23-Aug-2022
13:54
ALSHS
Server



AFTER

MASS
212
AREA
0
HEIGHT
0
24-Aug-2022
10:25
ALSHS
S

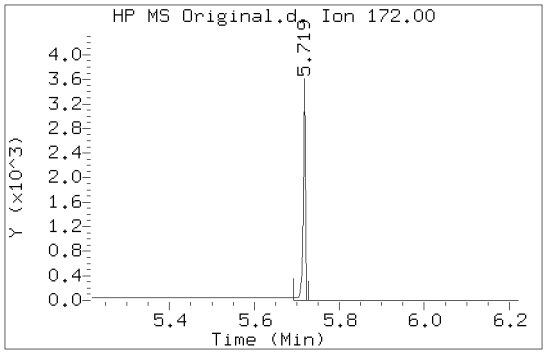


2-Fluorobiphenyl (321-60-8)

Reason Code:

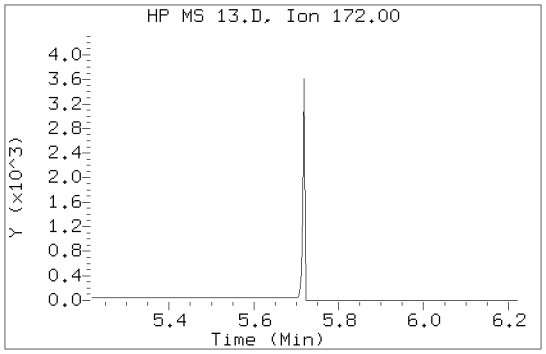
BEFORE

MASS
172
AREA
1357
HEIGHT
3611
23-Aug-2022
13:54
ALSHS
Server



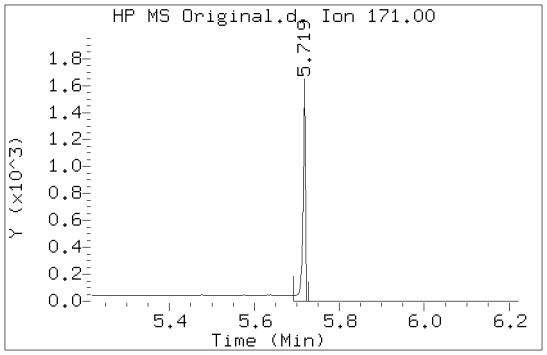
AFTER

MASS
172
AREA
4371
HEIGHT
3654
24-Aug-2022
10:25
ALSHS
S



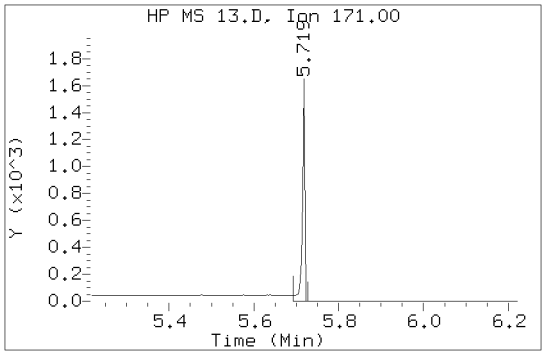
BEFORE

MASS
171
AREA
701
HEIGHT
1650
23-Aug-2022
13:54
ALSHS
Server



AFTER

MASS
171
AREA
701
HEIGHT
1650
24-Aug-2022
10:25
ALSHS
S



Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\31.D Page 1
Report Date: 25-Aug-2022 16:19

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220823.b\31.D
Lab Smp Id: 1 4DIOX-CCV Client Smp ID: 1 4DIOX-CCV
Inj Date : 23-AUG-2022 19:03
Operator : LG Inst ID: SV6.i
Smp Info : 1 4DIOX-0.08;1 4DIOX-0.08;2
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220823.b\DXSIM.m
Meth Date : 25-Aug-2022 16:19 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 12:56 Cal File: 009.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)	
* 20 1,4-Dichlorobenzene-d4	152	3.609	3.609	(1.000)	5472	0.10000		(aM)
* 45 Naphthalene-d8	136	4.723	4.723	(1.000)	10048	0.10000		(M)
$ 33 Nitrobenzene-d5	82	4.113	4.113	(0.871)	2568	0.08000	0.07667	(QM)
* 86 Acenaphthene-d10	164	6.392	6.392	(1.000)	3549	0.10000		(QM)
$ 69 2-Fluorobiphenyl	172	5.718	5.718	(0.895)	2241	0.08000	0.04057	(QM)
* 126 Phenanthrene-d10	188	7.849	7.849	(1.000)	10631	0.10000		
* 182 Chrysene-d12	240	10.678	10.678	(1.000)	6119	0.10000		(M)
$ 158 4-Terphenyl-d14	244	9.425	9.425	(0.883)	6743	0.08000	0.05861	(M)
* 198 Perylene-d12	264	12.751	12.751	(1.000)	3909	0.10000		
1 1,4-Dioxane	58	1.884	1.884	(0.522)	186	0.08000	0.08280	(aQM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

01141501

Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\31.D

Page 2

Date : 23-AUG-2022 19:03

Client ID: 1 4DIOX-CCV

Instrument: SV6.i

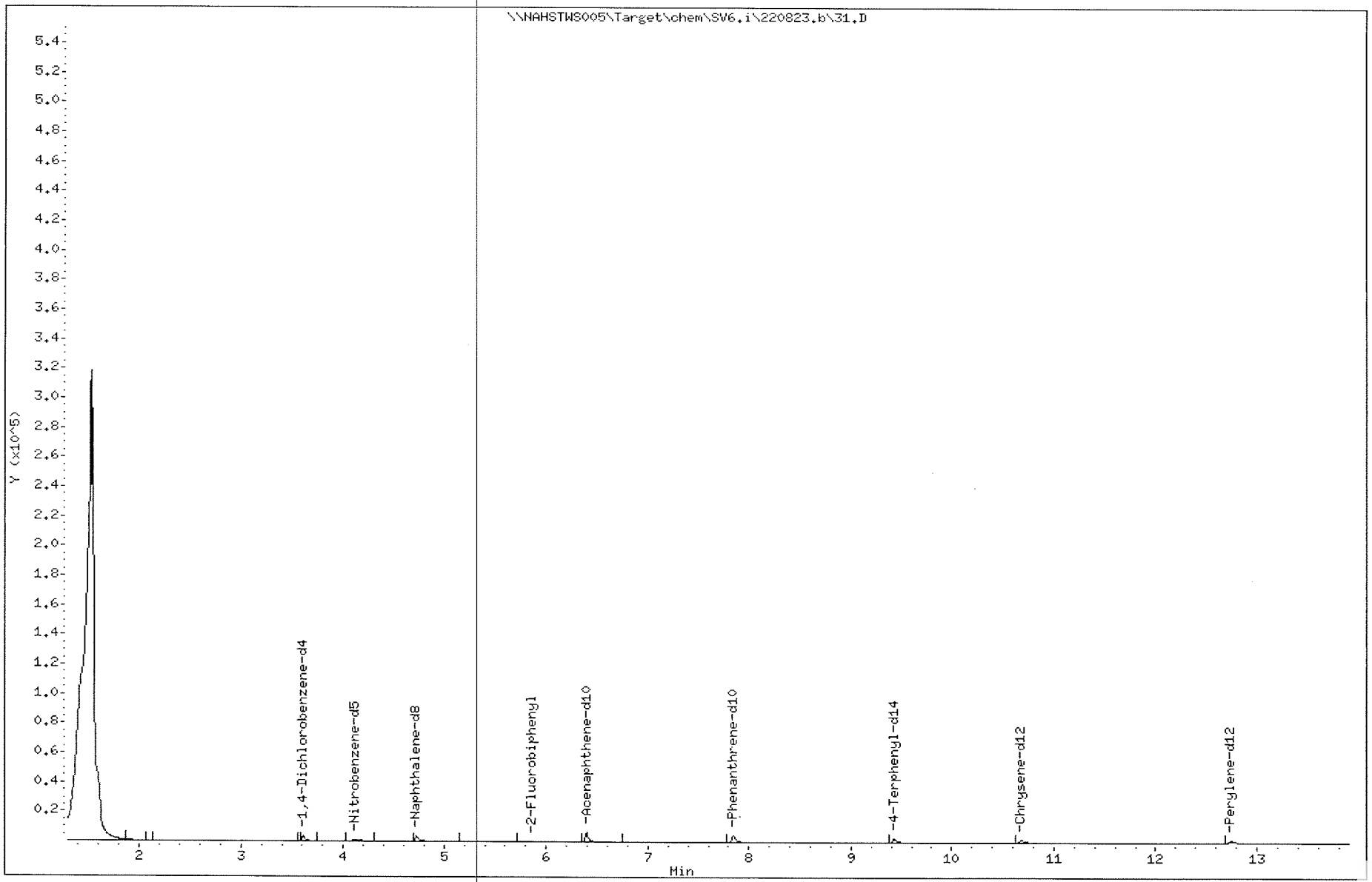
Sample Info: 1 4DIOX-0.08;1 4DIOX-0.08;2

Purge Volume: 1000.0

Operator: LG

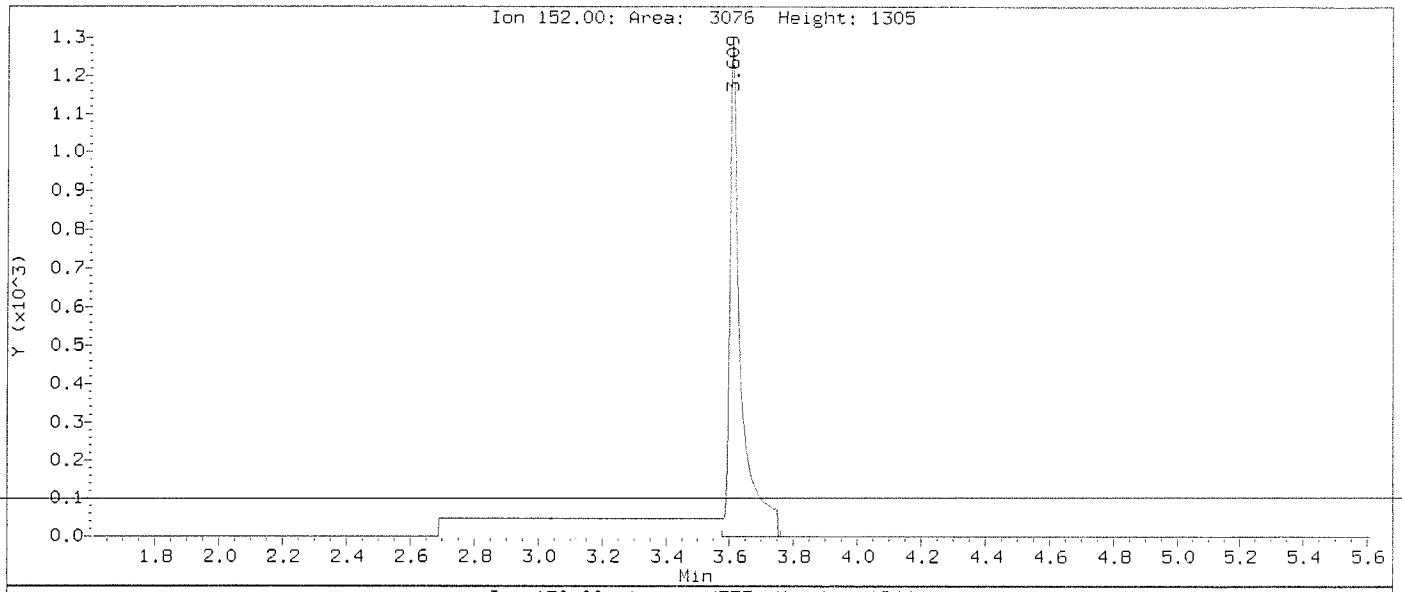
Column phase: RTX-5SIL MS

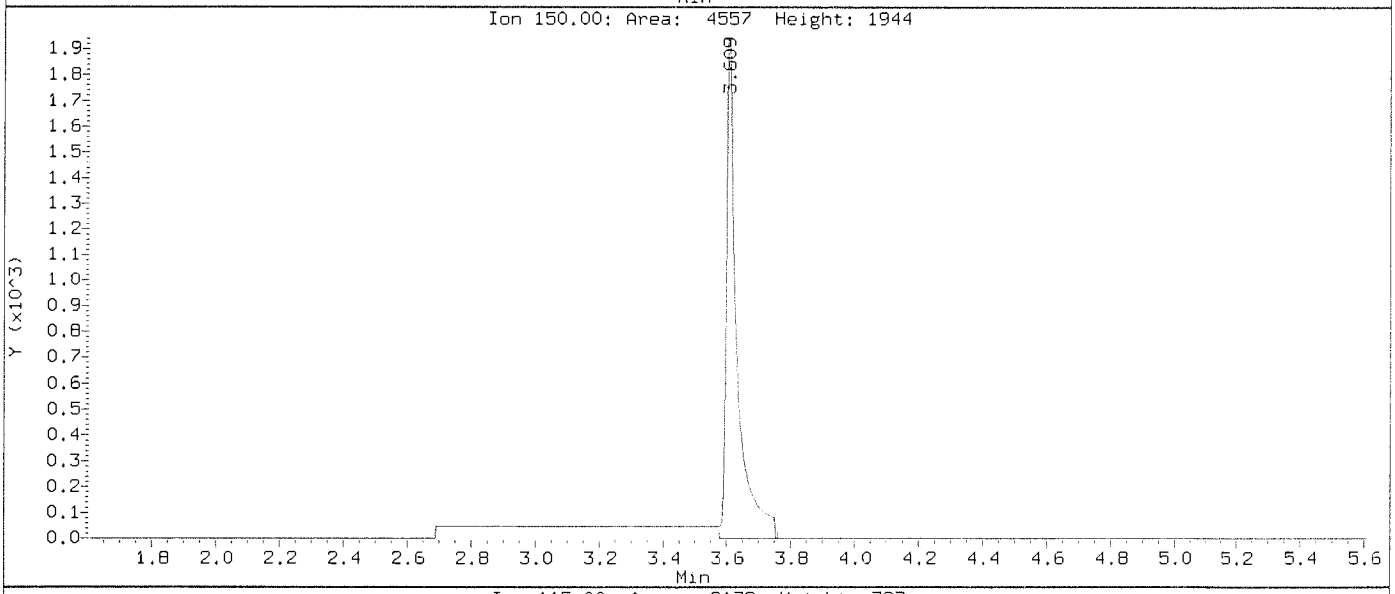
Column diameter: 0.28

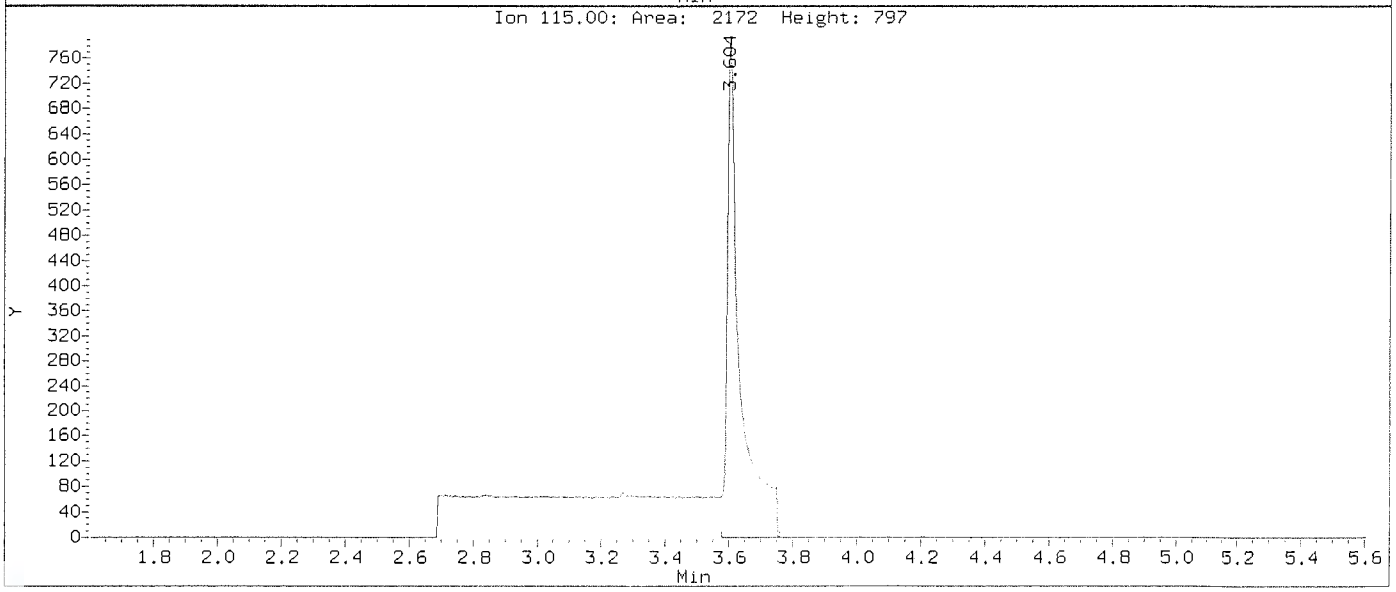


Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\Before\31.D
Injection Date: 23-AUG-2022 19:03
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

Compound: 1,4-Dichlorobenzene-d4
CAS Number: 3855-82-1

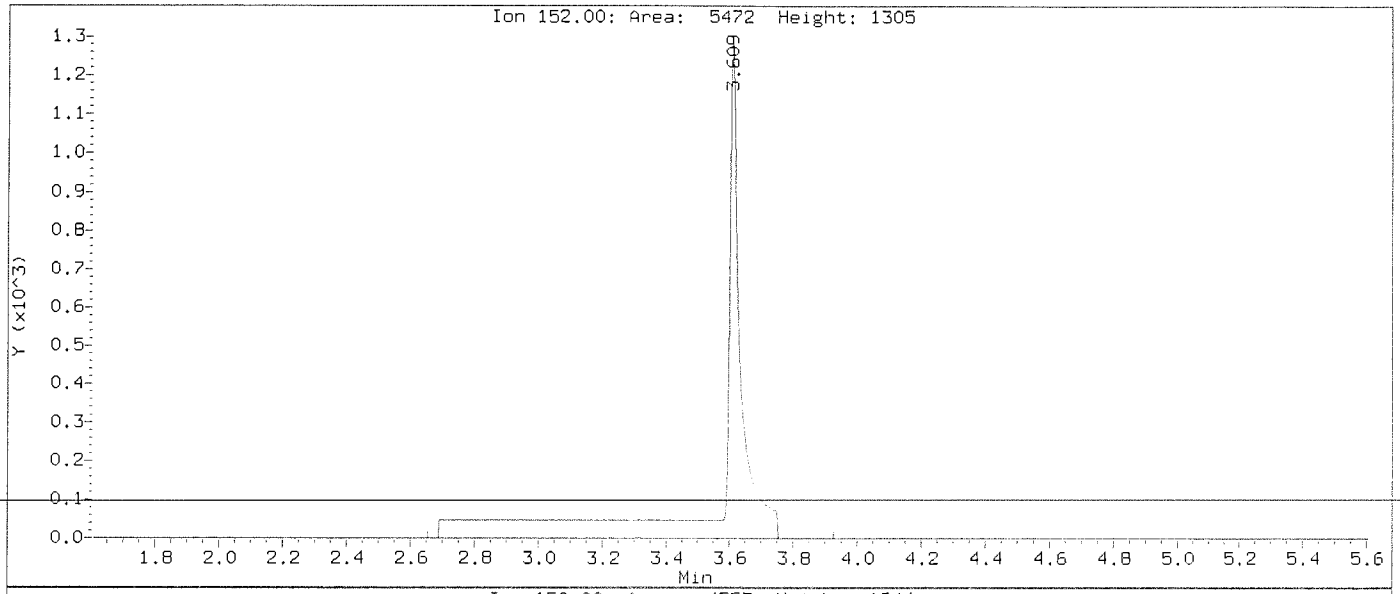


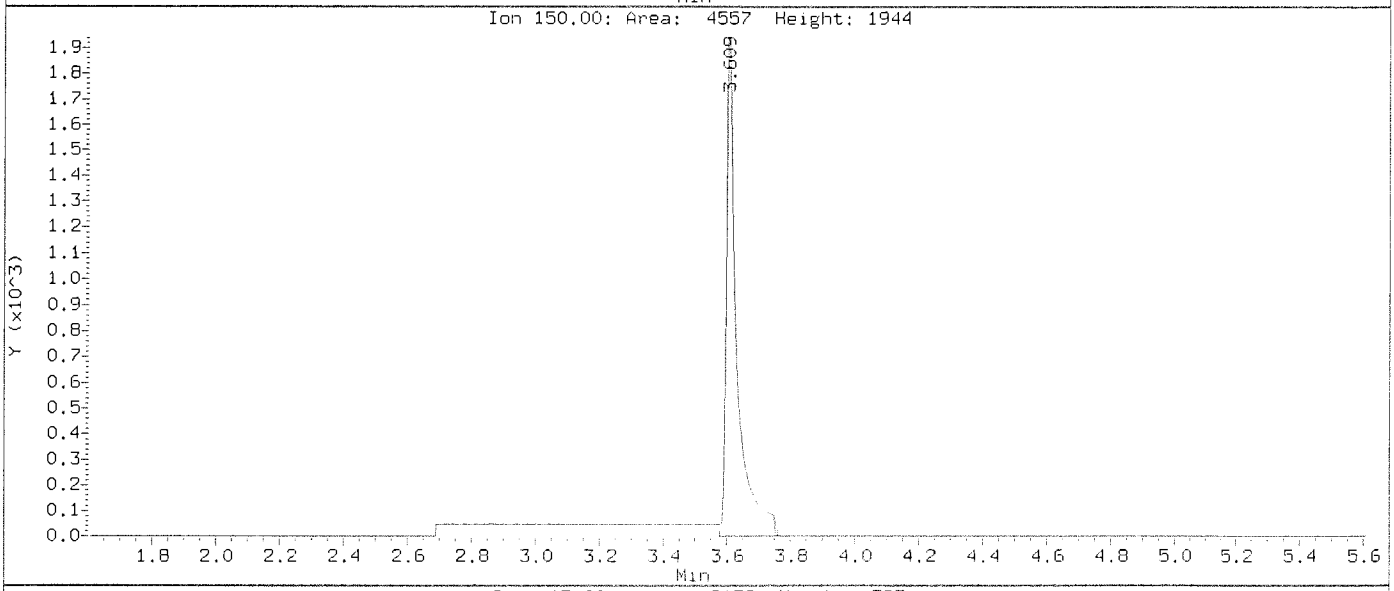


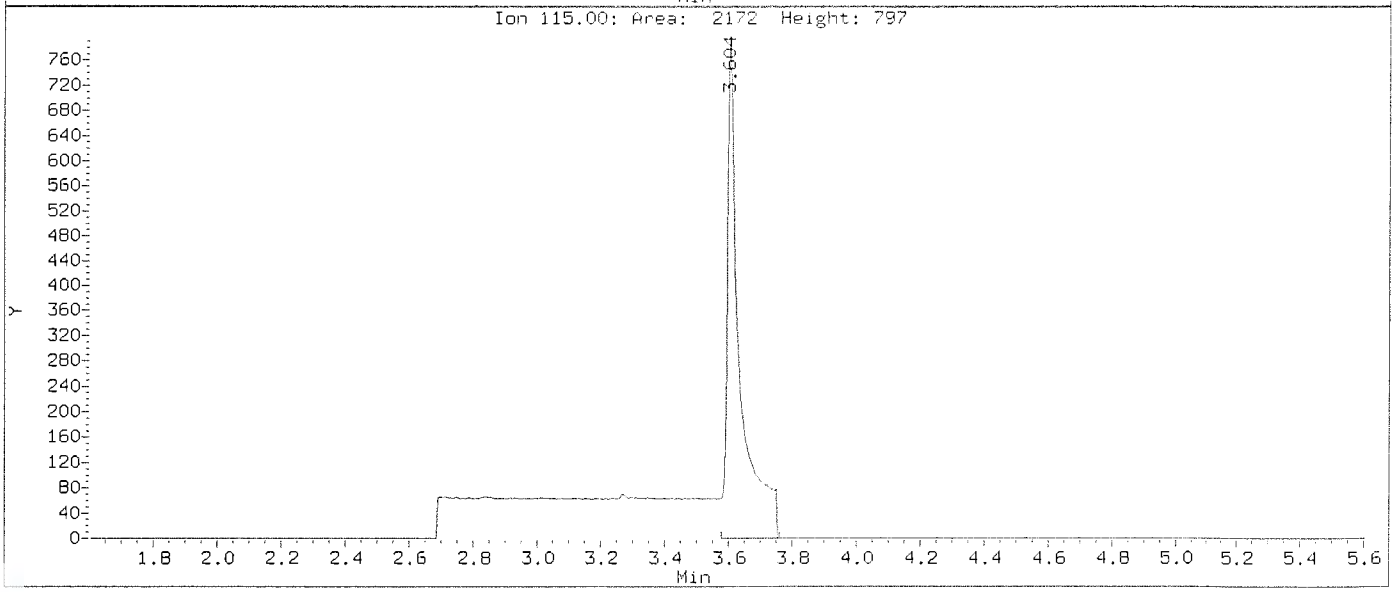


Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\31.D
Injection Date: 23-AUG-2022 19:03
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

Compound: 1,4-Dichlorobenzene-d4
CAS Number: 3855-82-1

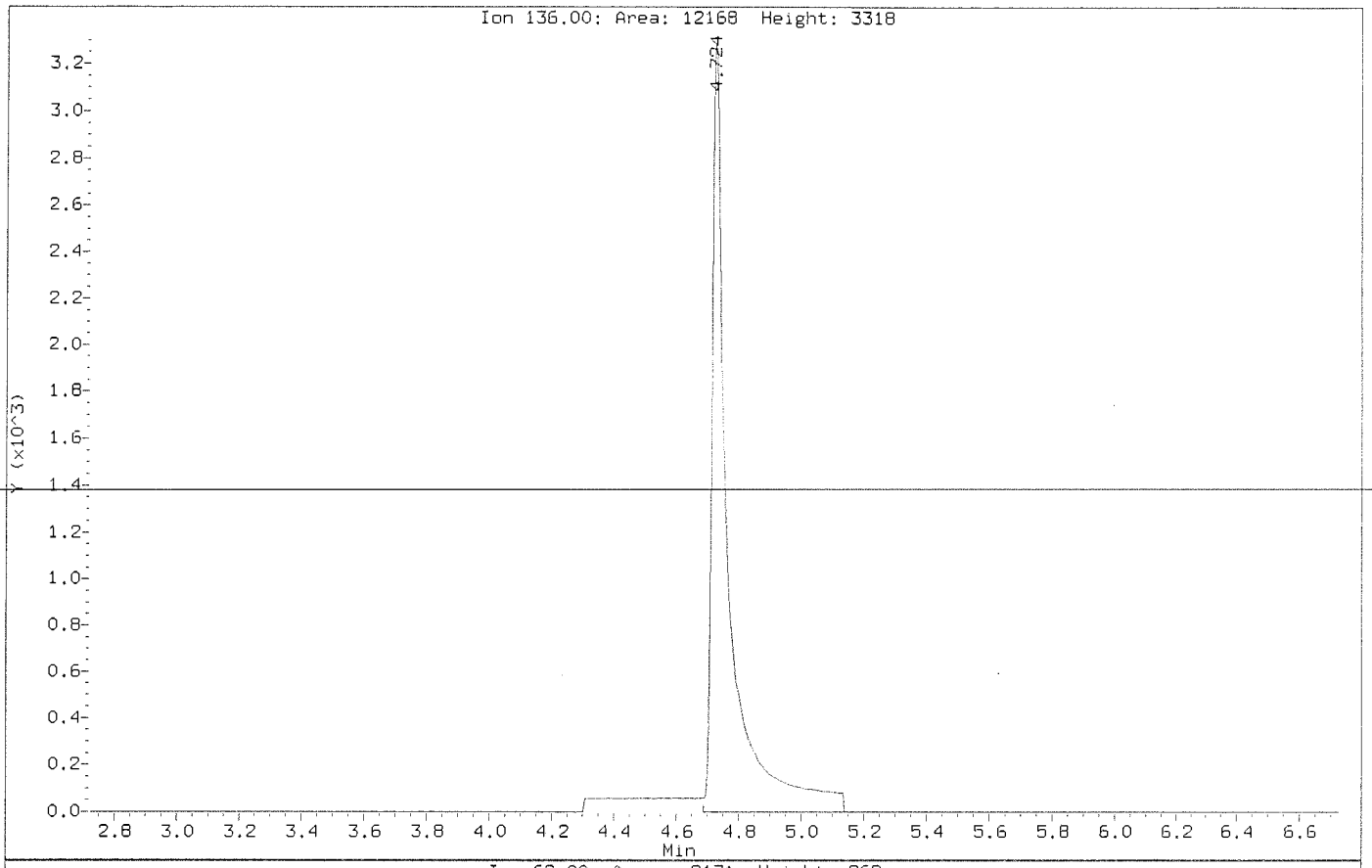


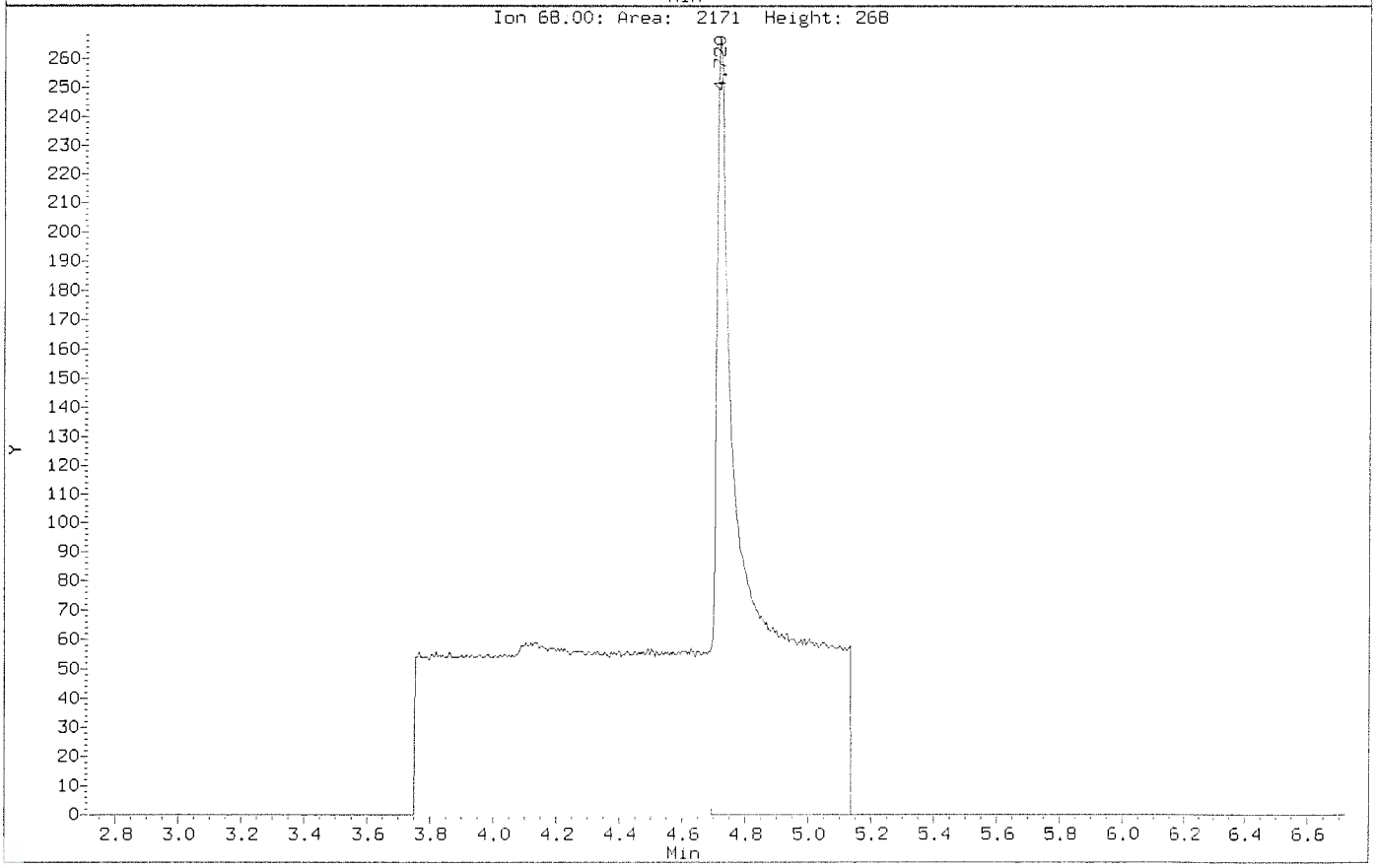




Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\Before\31.D
Injection Date: 23-AUG-2022 19:03
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

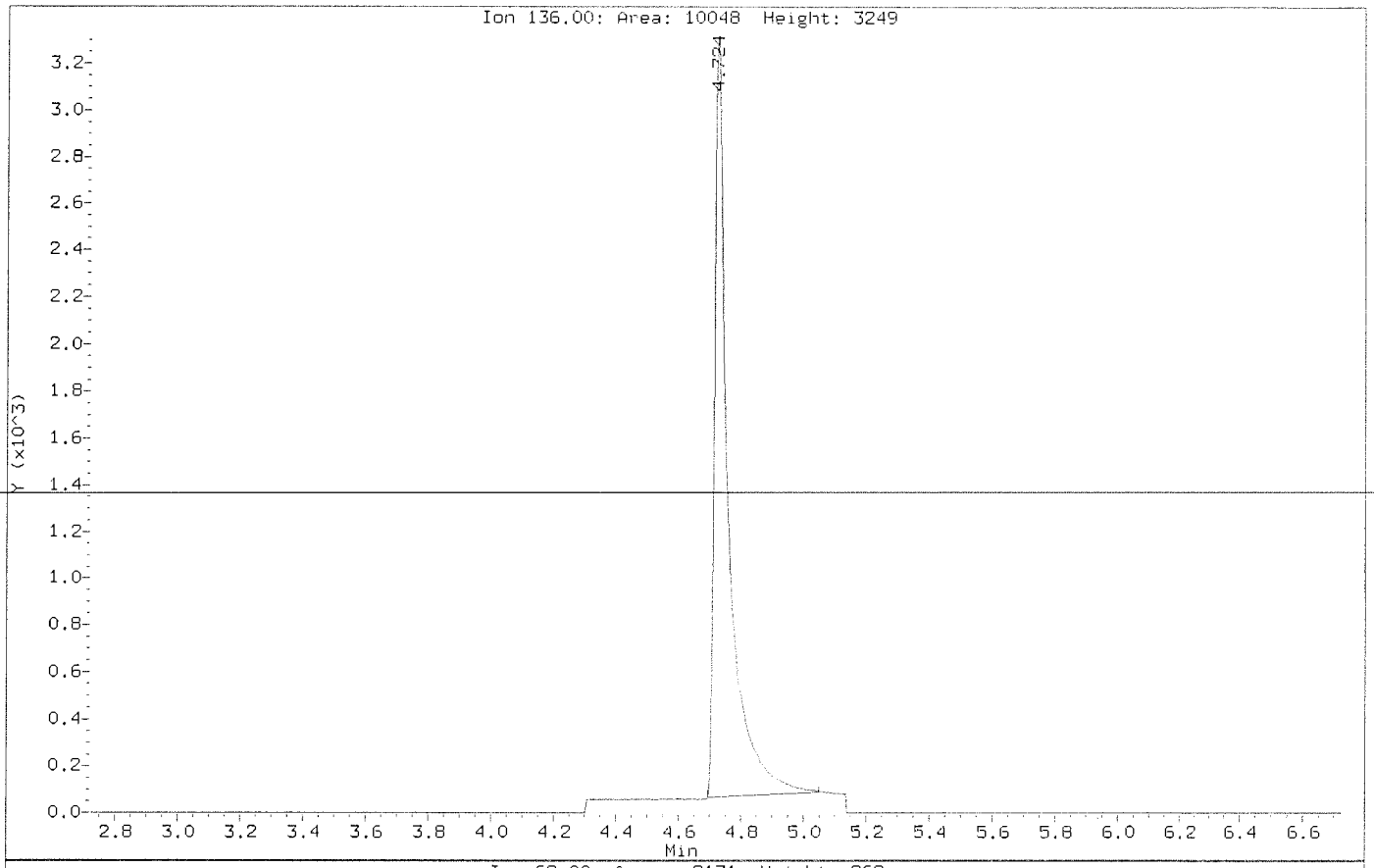
Compound: Naphthalene-d8
CAS Number: 1146-65-2

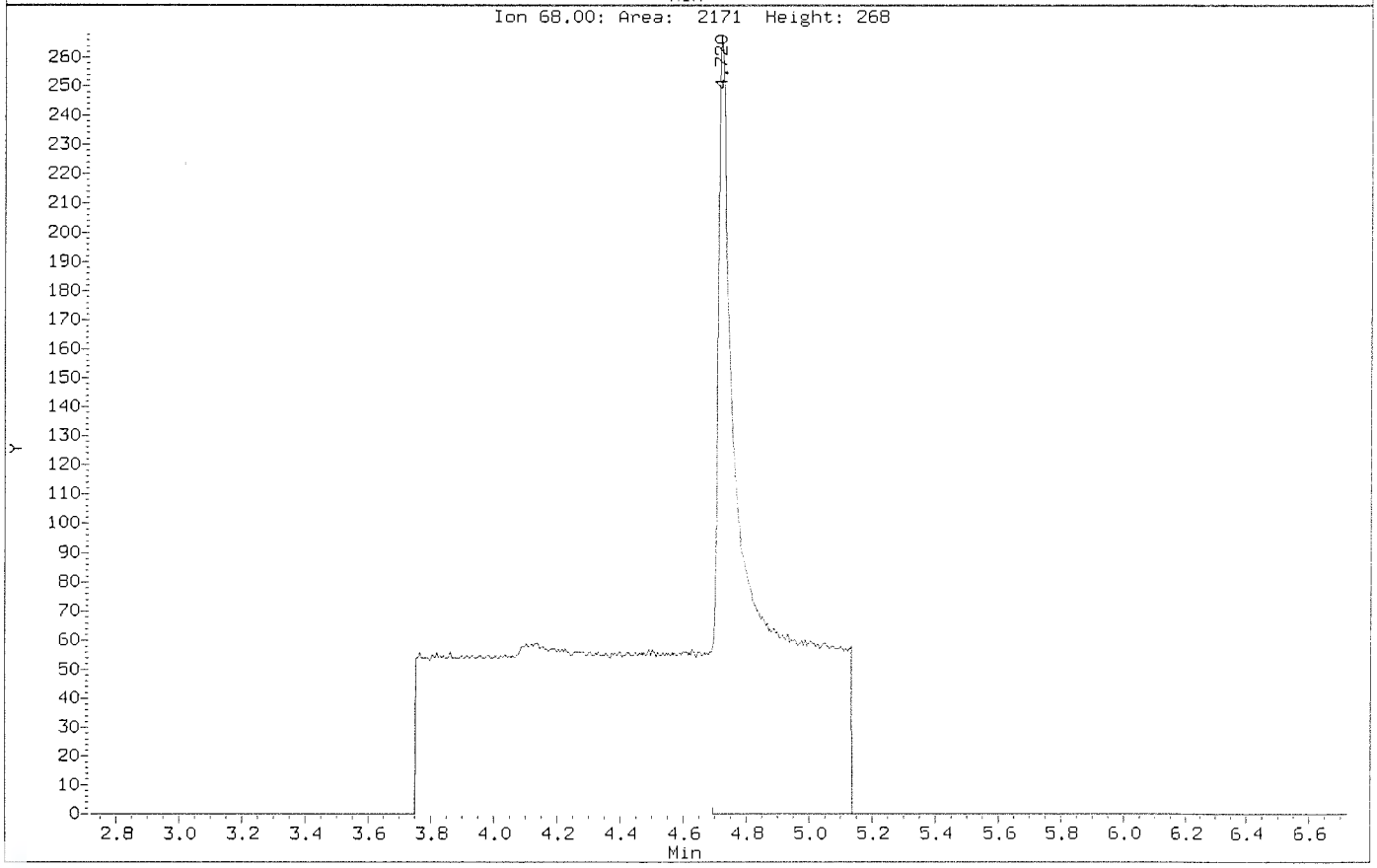




Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\31.D
Injection Date: 23-AUG-2022 19:03
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

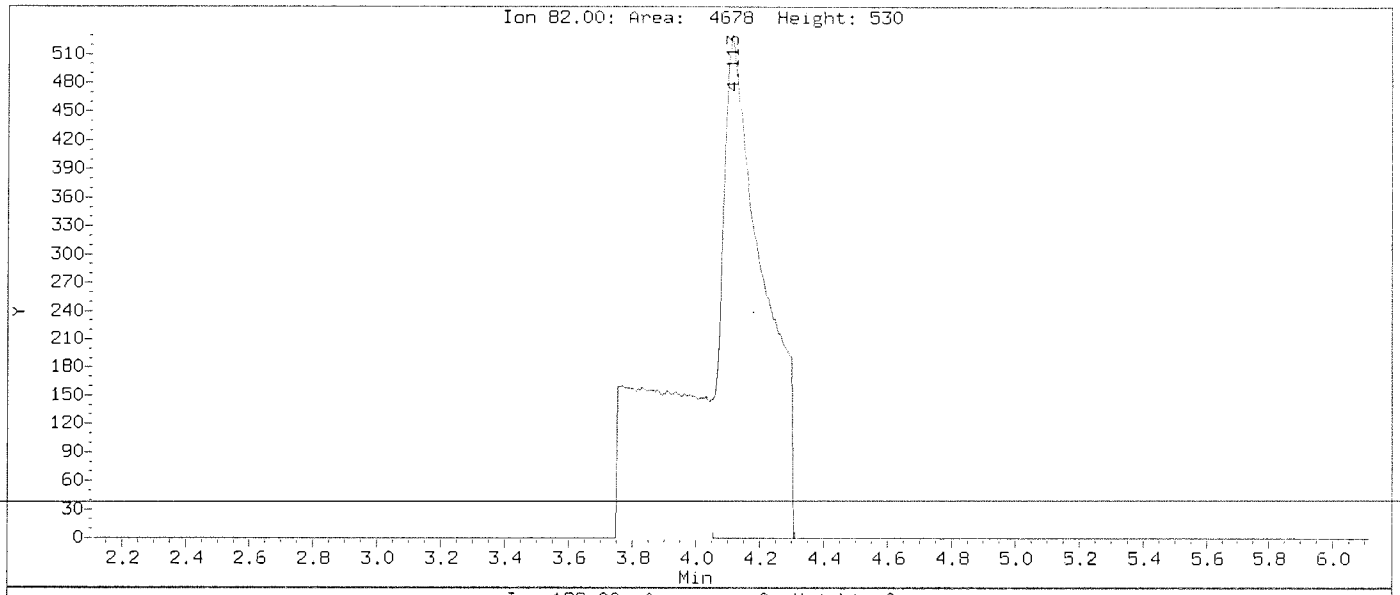
Compound: Naphthalene-d8
CAS Number: 1146-65-2

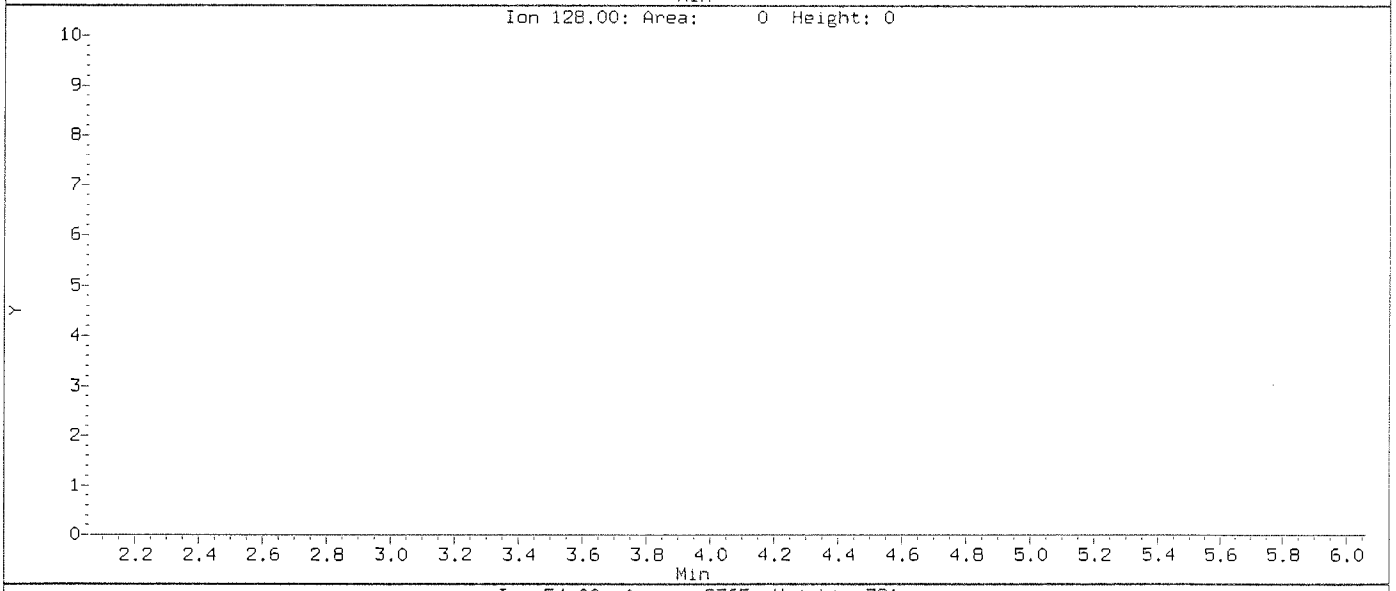


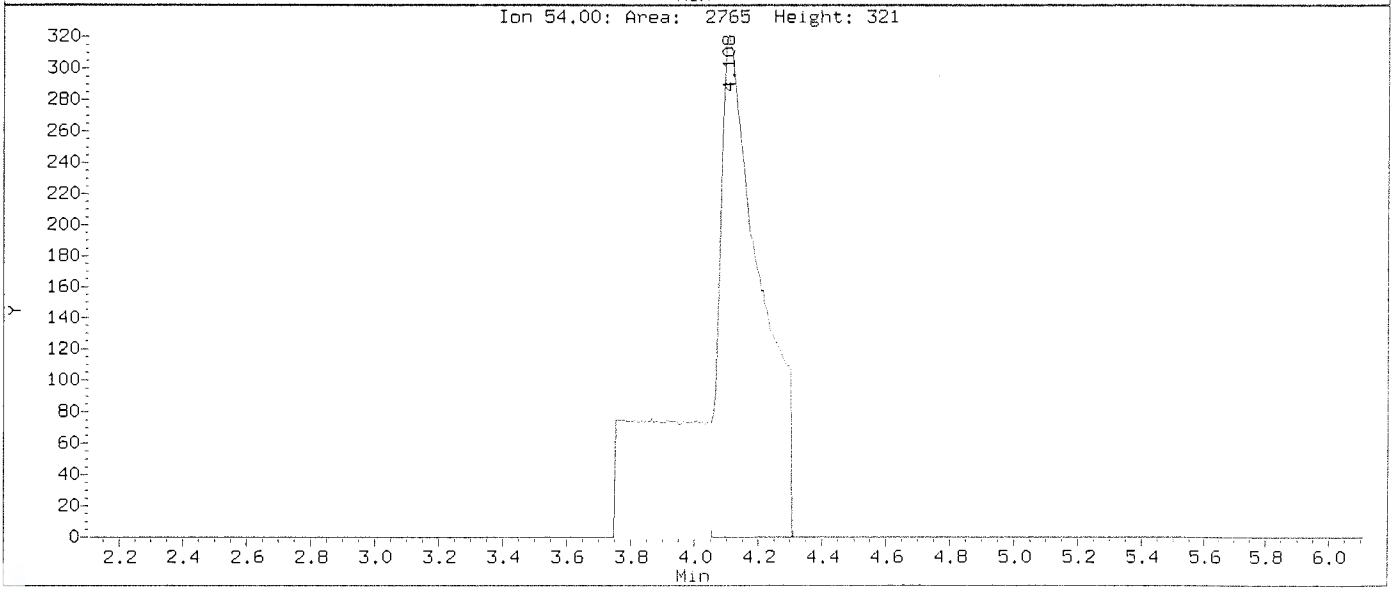


Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\Before\31.D
Injection Date: 23-AUG-2022 19:03
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

Compound: Nitrobenzene-d5
CAS Number: 4165-60-0

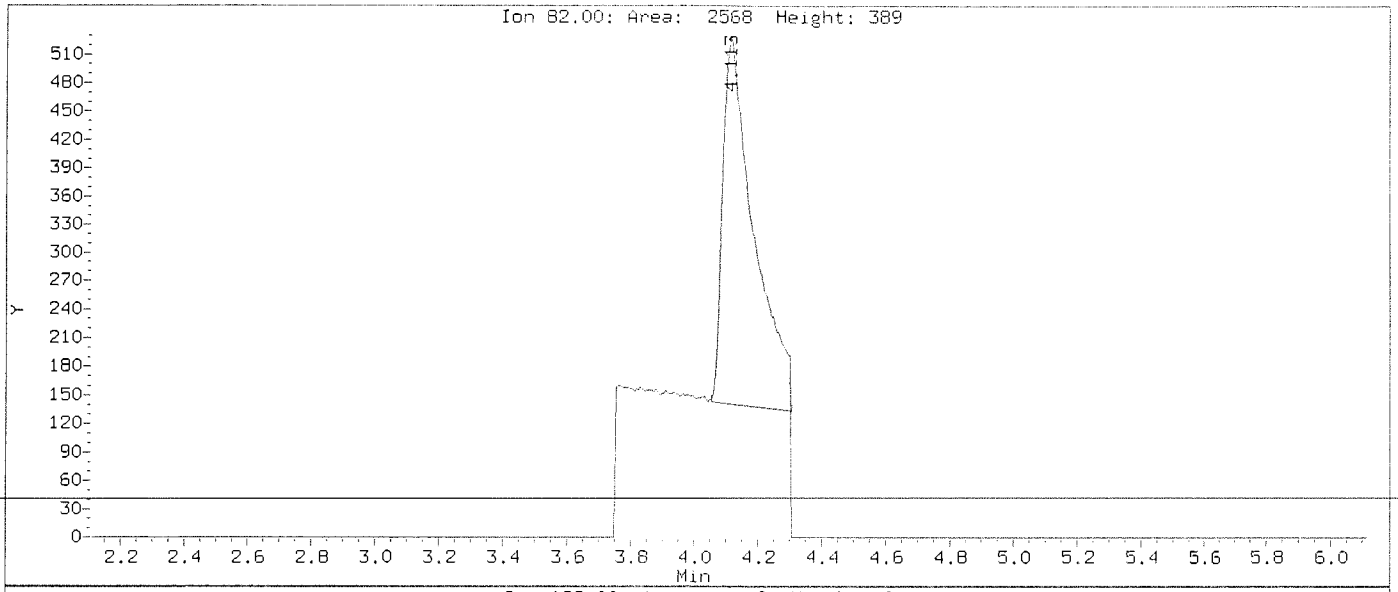


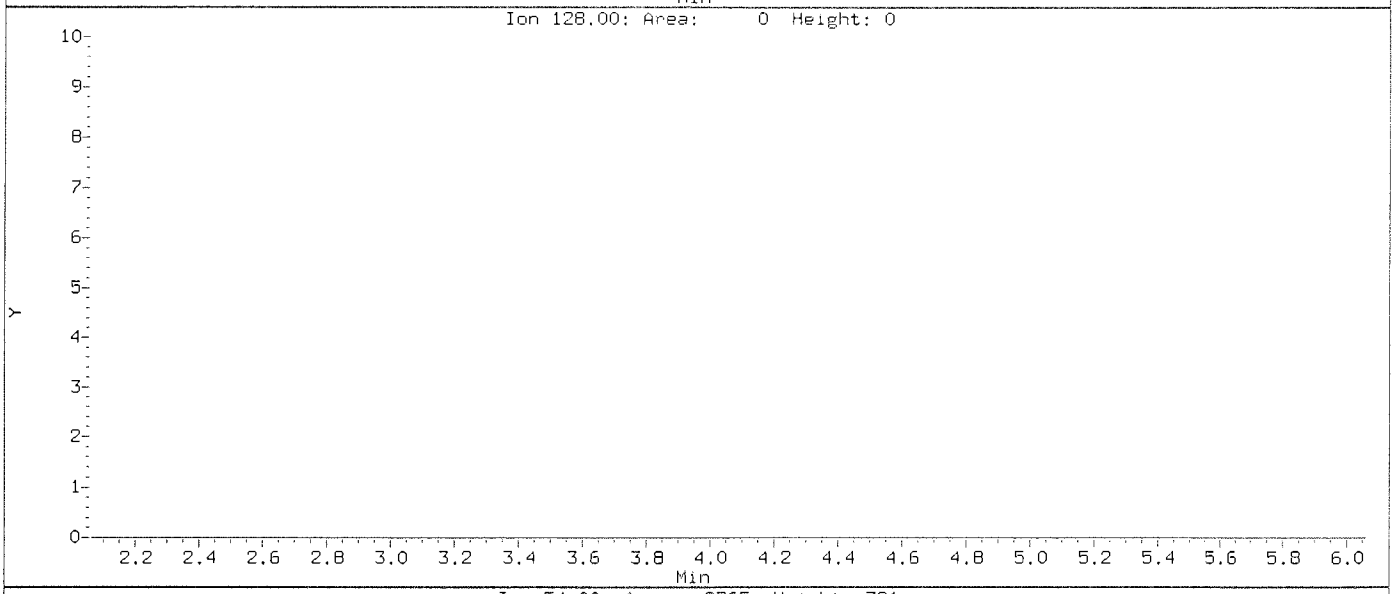


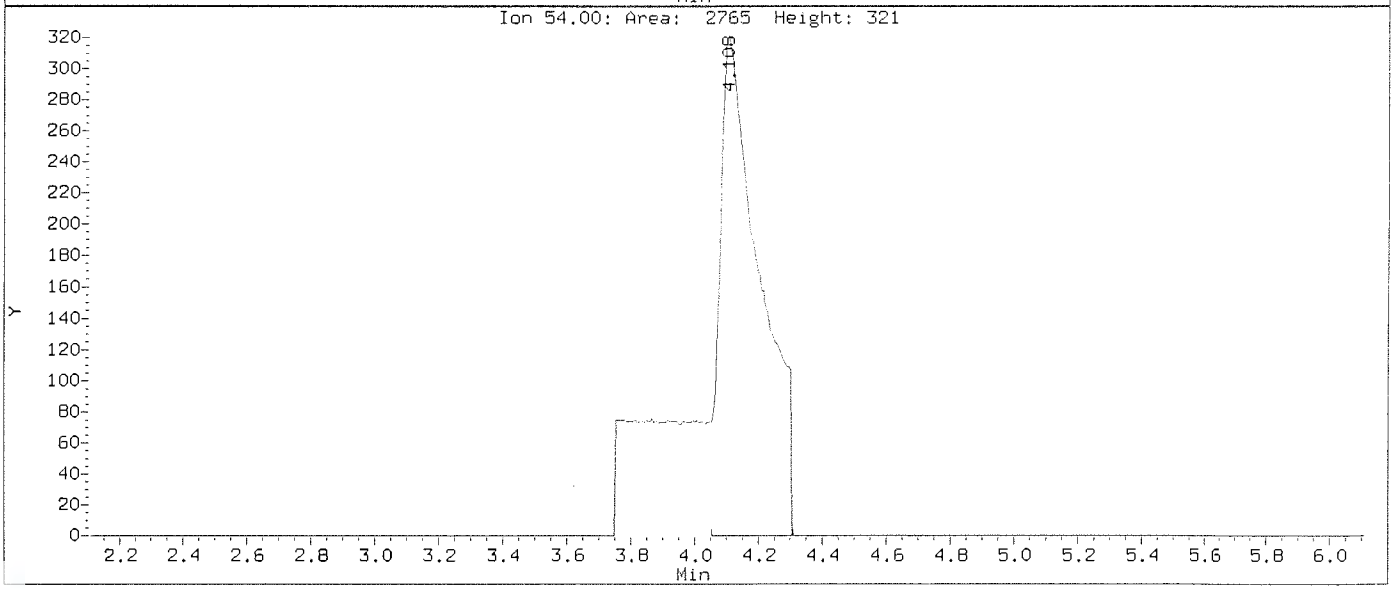


Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\31.D
Injection Date: 23-AUG-2022 19:03
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

Compound: Nitrobenzene-d5
CAS Number: 4165-60-0

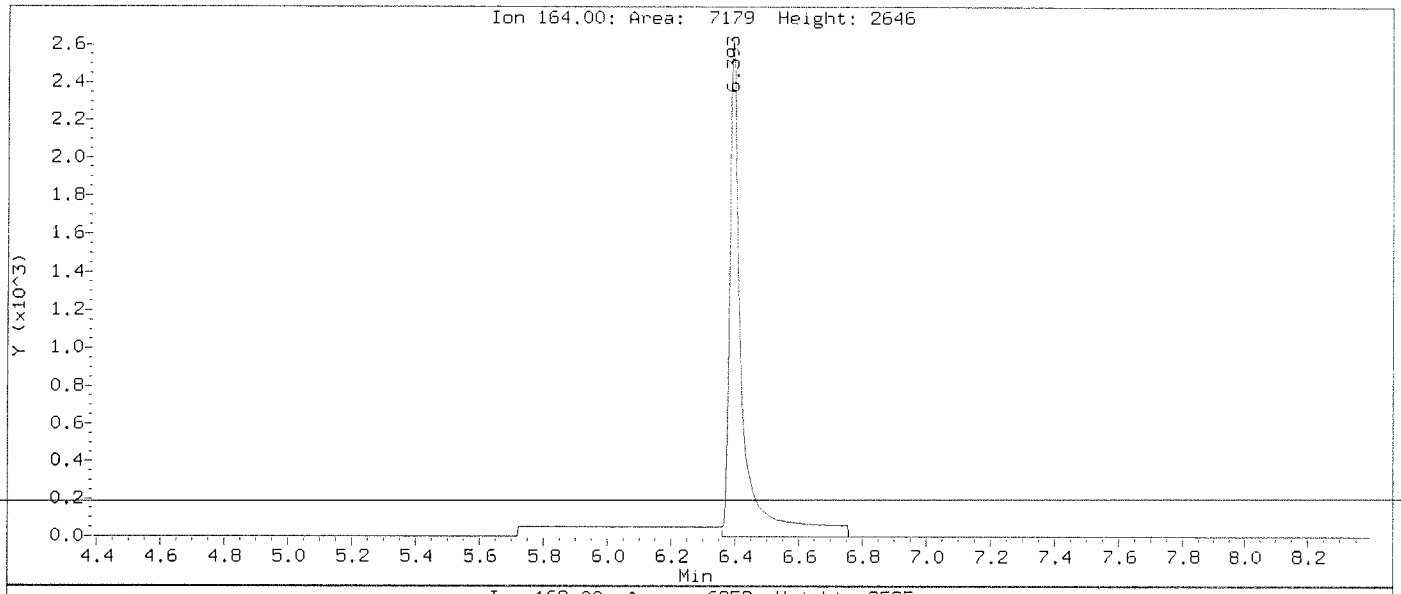


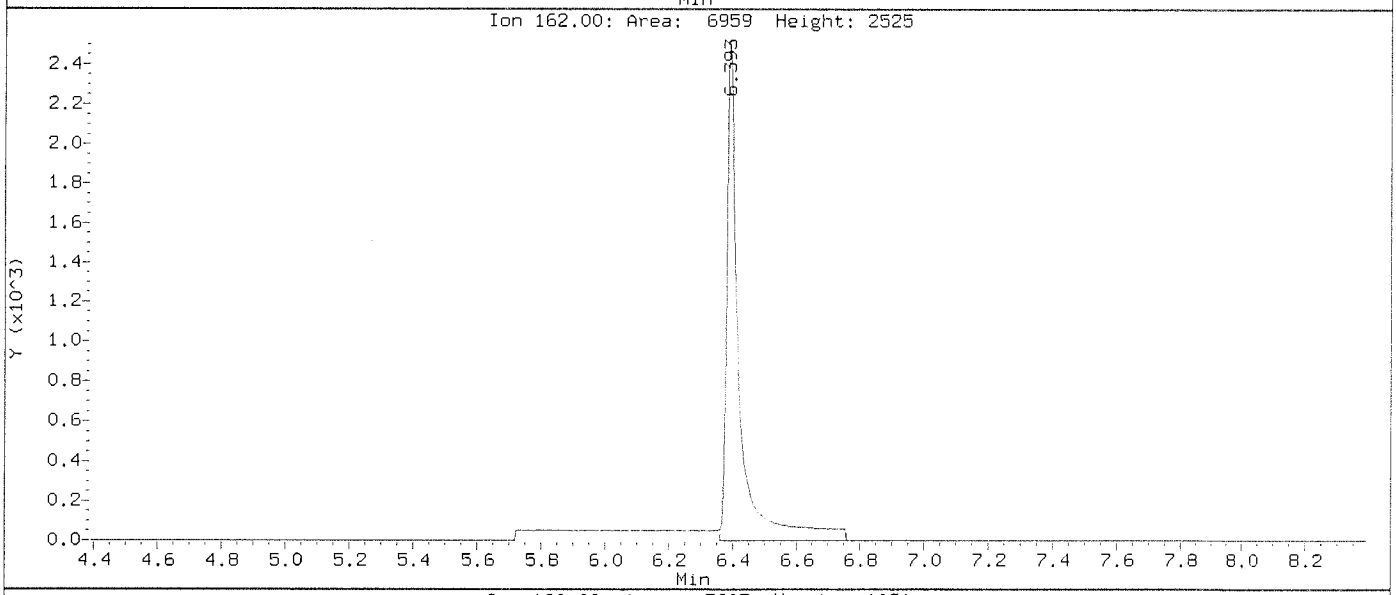


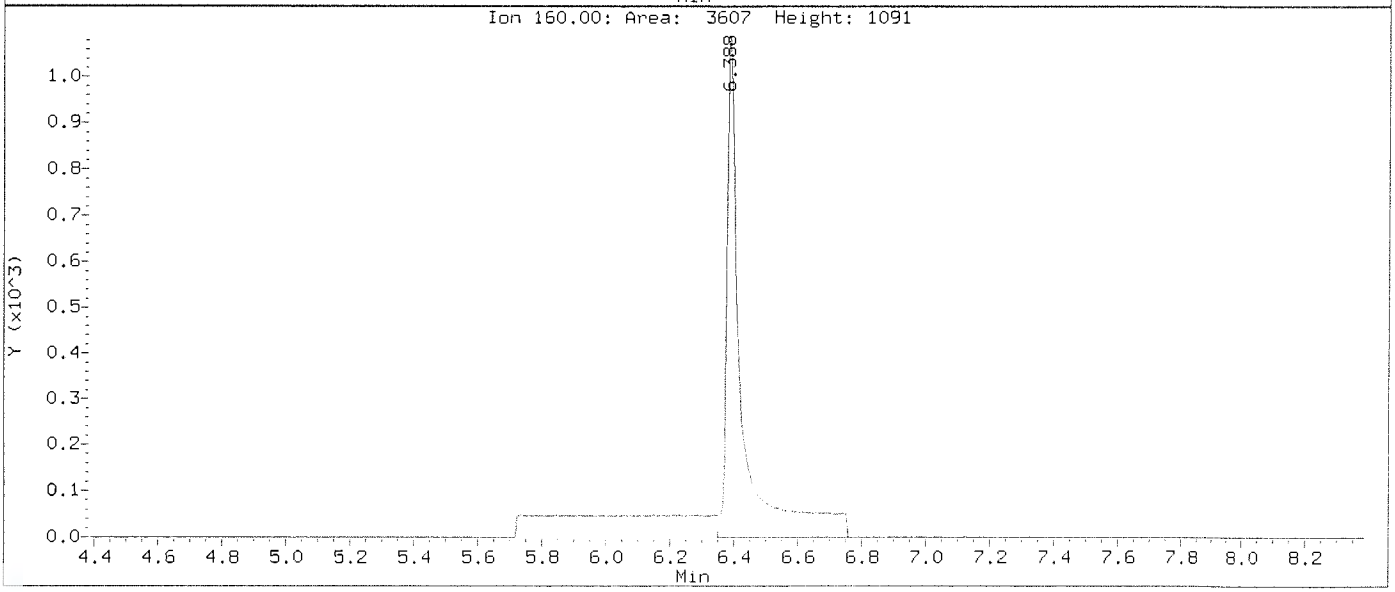


Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\Before\31.D
Injection Date: 23-AUG-2022 19:03
Instrument: SV6.i
Client Sample ID: i 4DIOX-CCV

Compound: Acenaphthene-d10
CAS Number: 15067-26-2

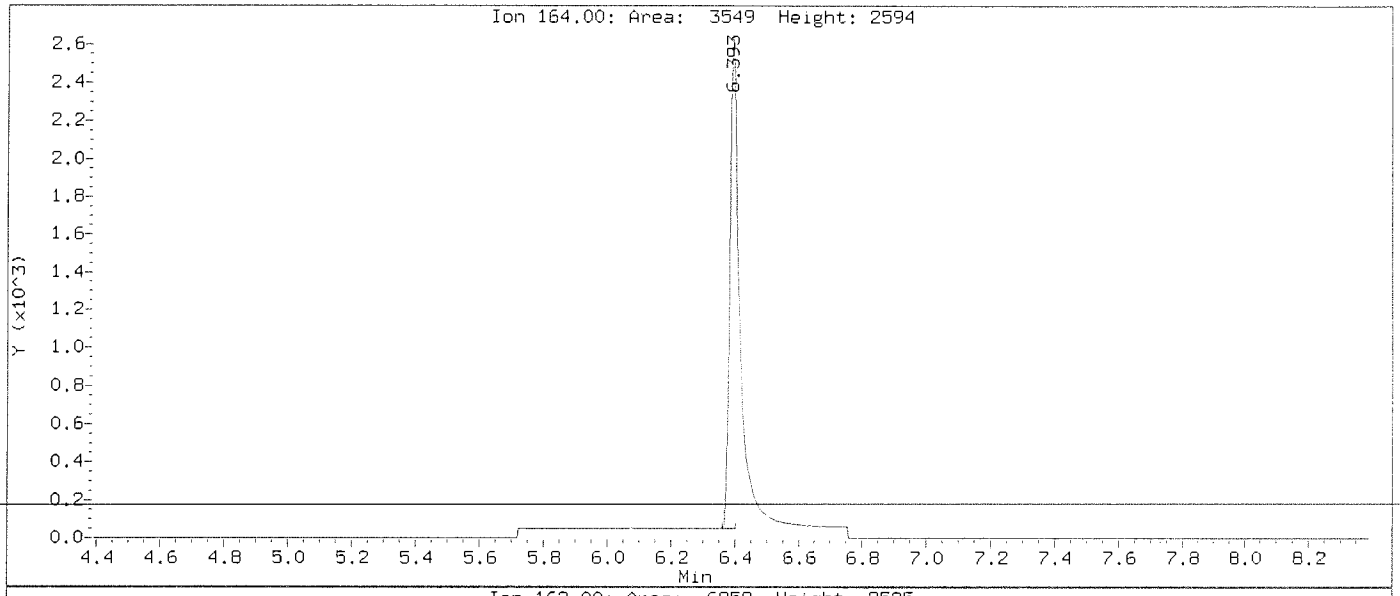


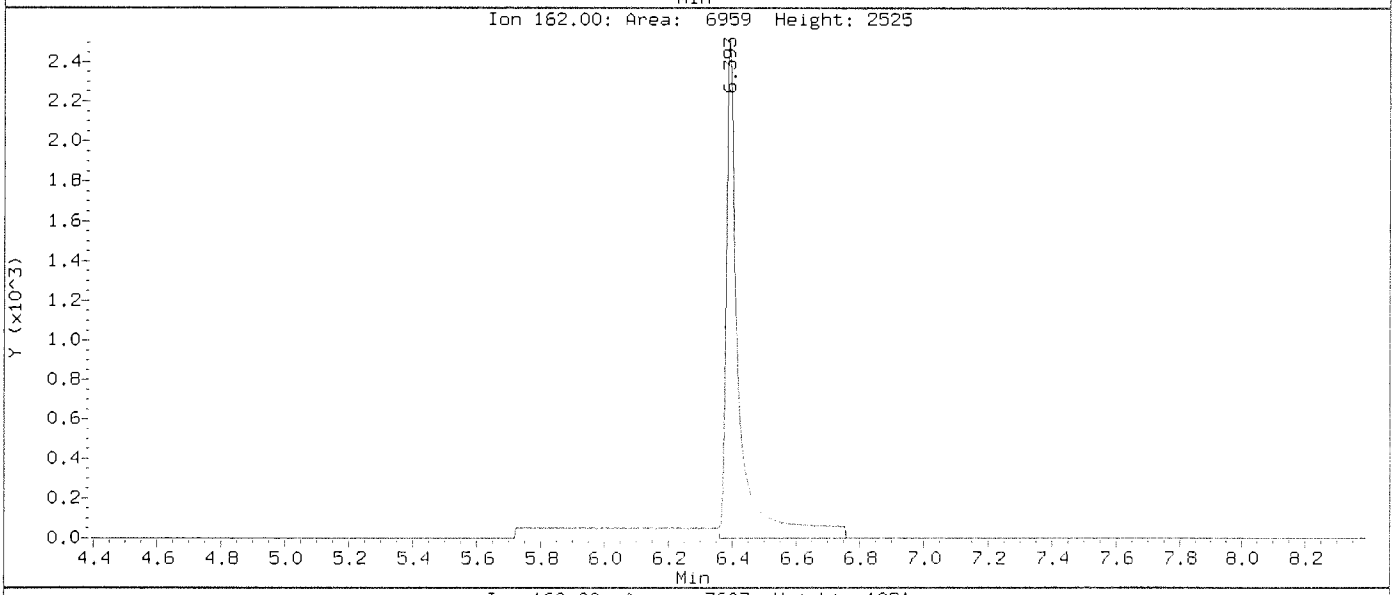


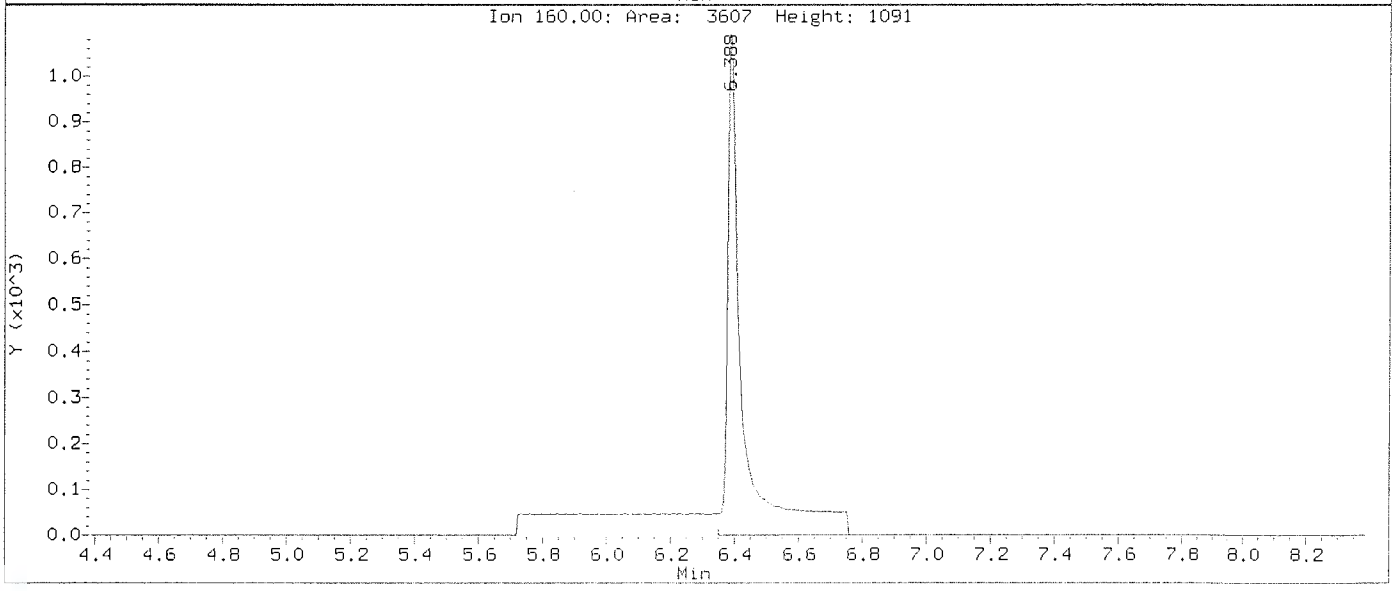


Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\31.D
Injection Date: 23-AUG-2022 19:03
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

Compound: Acenaphthene-d10
CAS Number: 15067-26-2

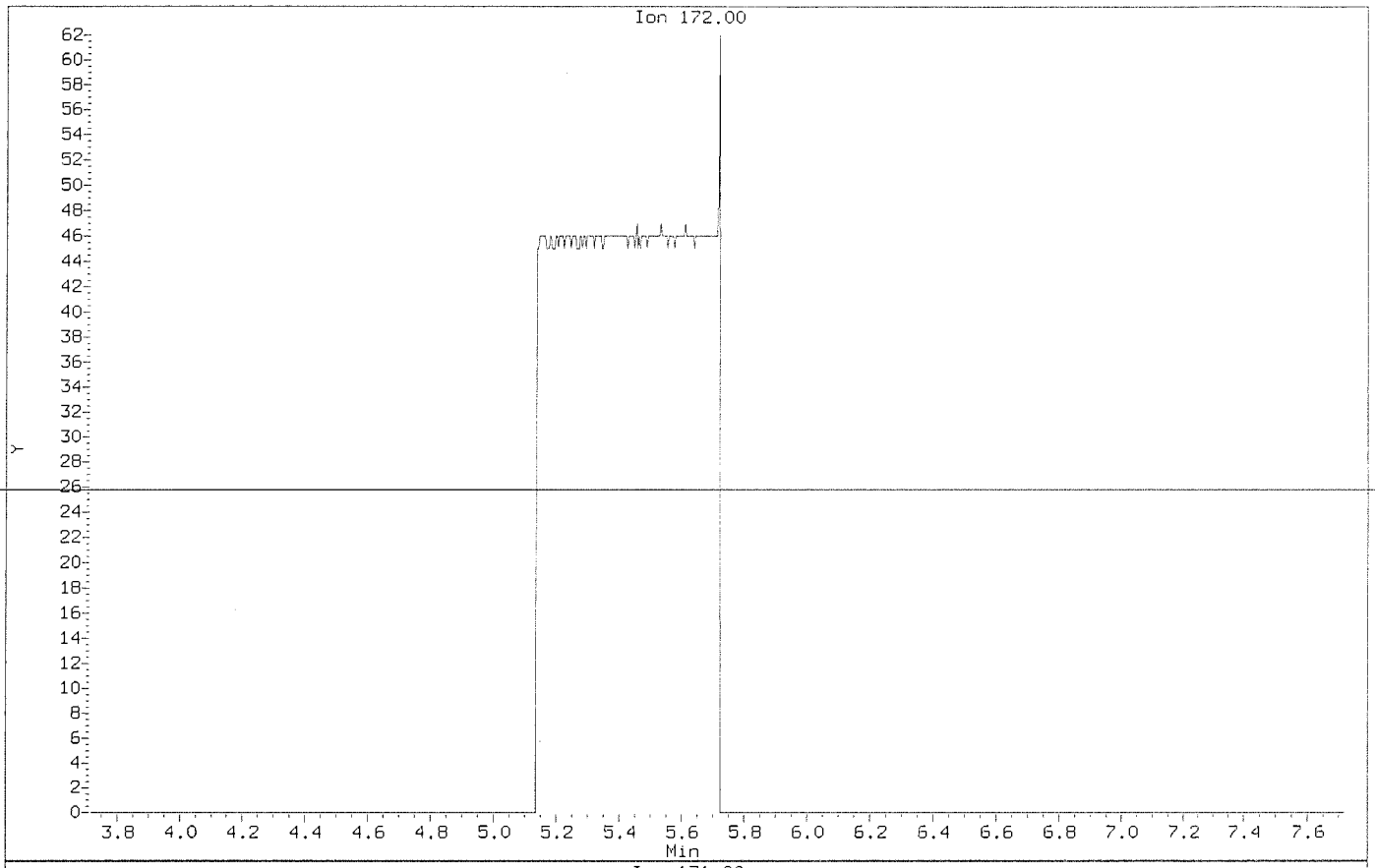


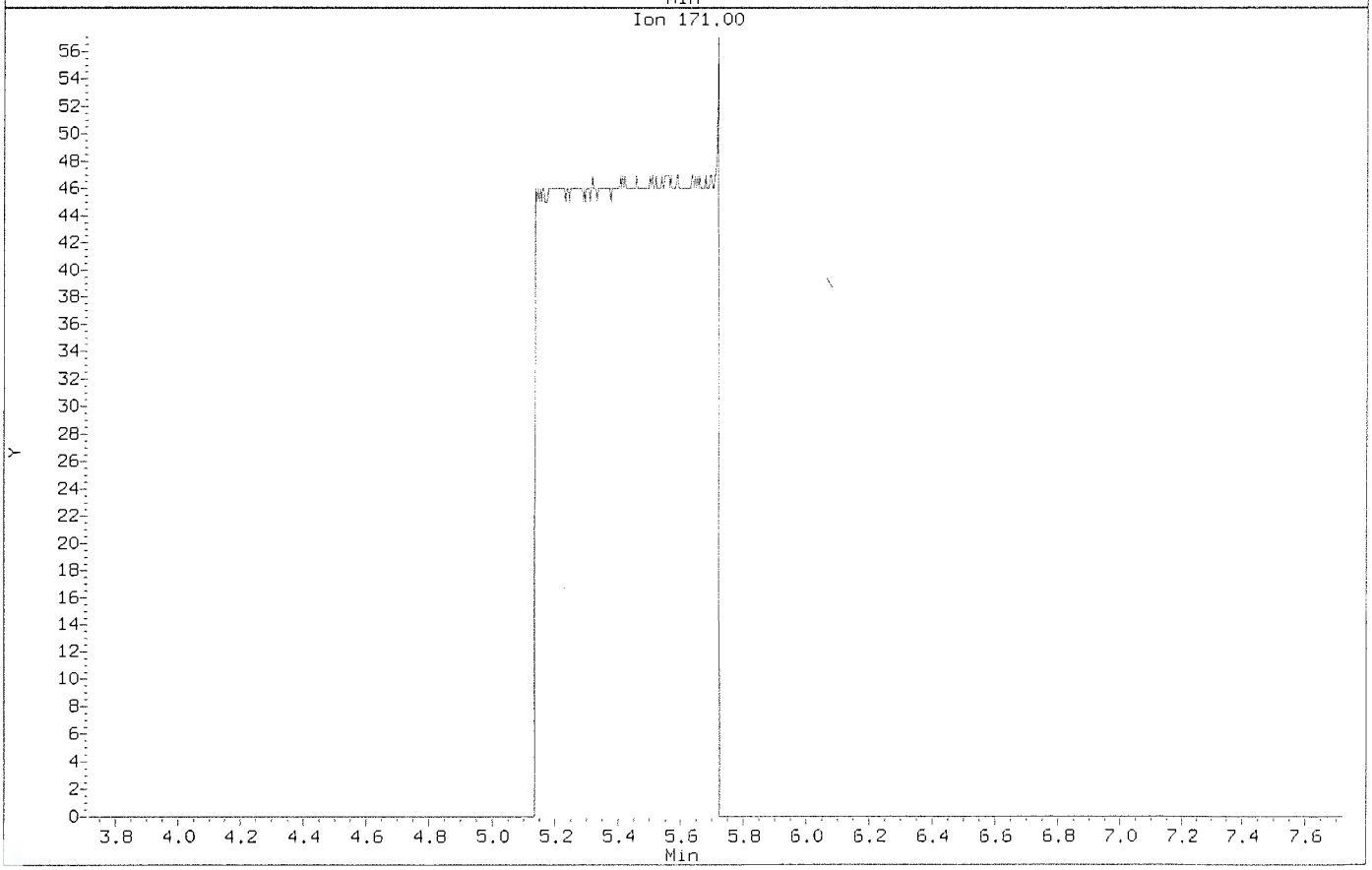




Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\Before\31.D
Injection Date: 23-AUG-2022 19:03
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

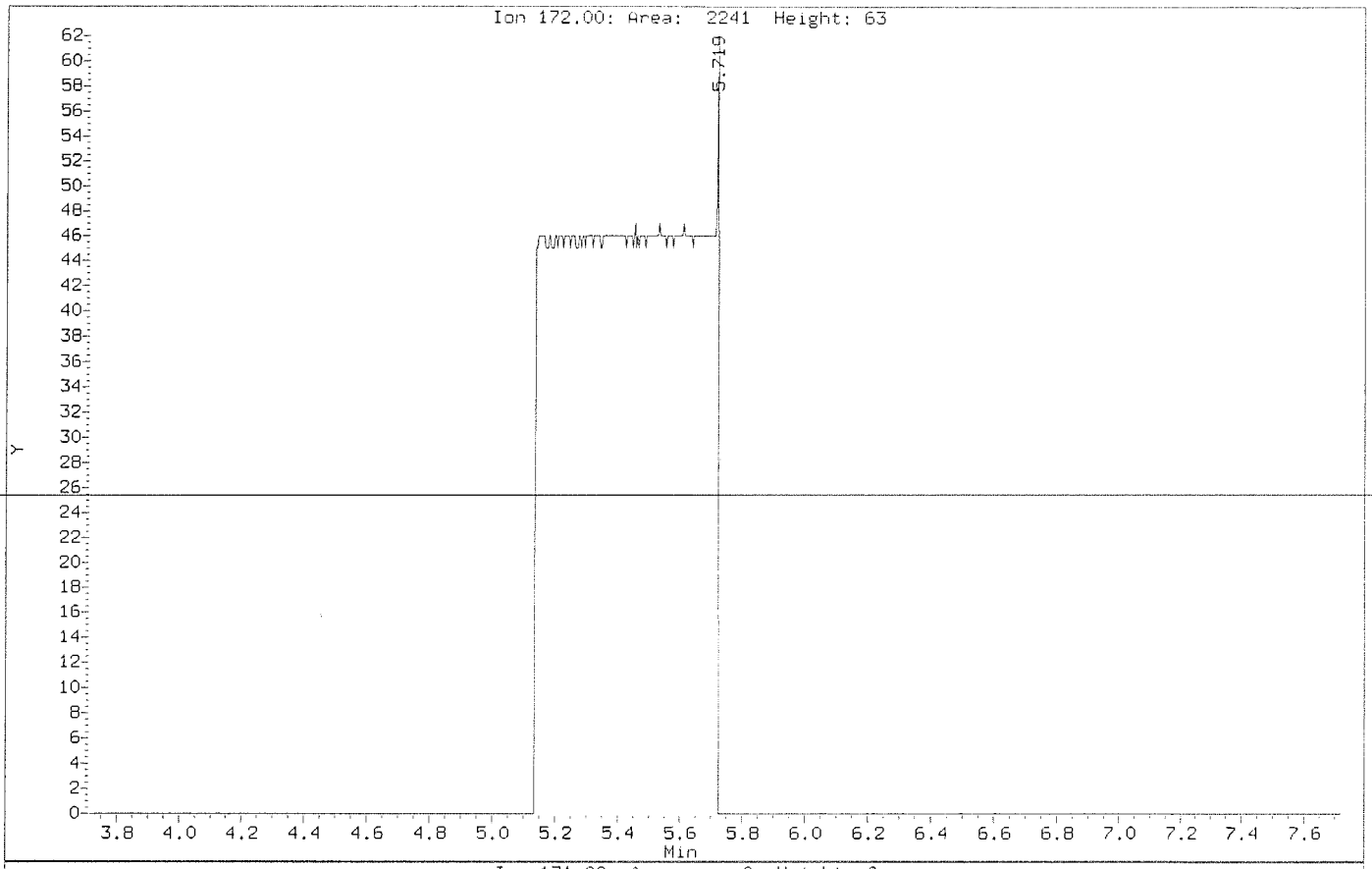
Compound: 2-Fluorobiphenyl
CAS Number: 321-60-8

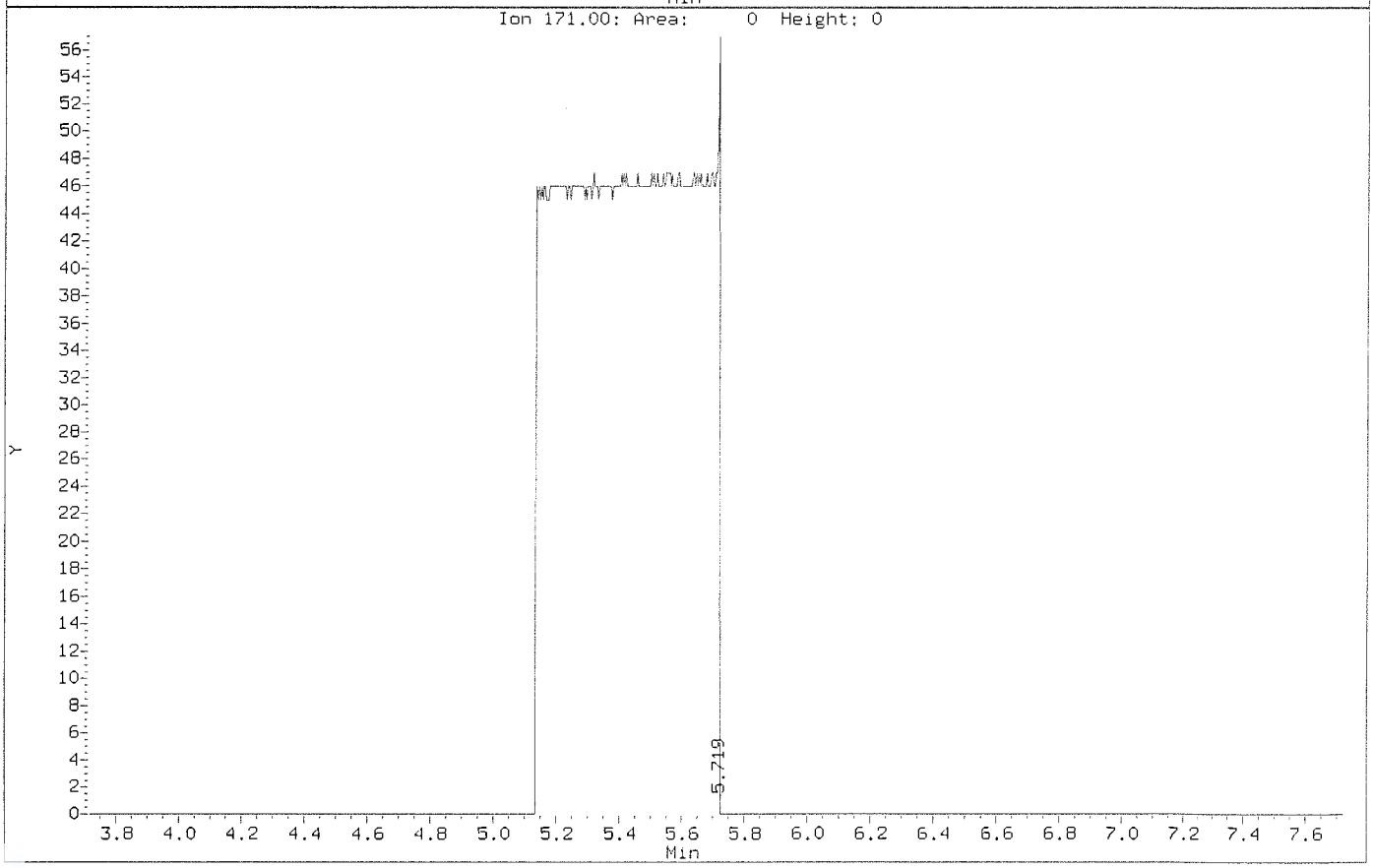




Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\31.D
Injection Date: 23-AUG-2022 19:03
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

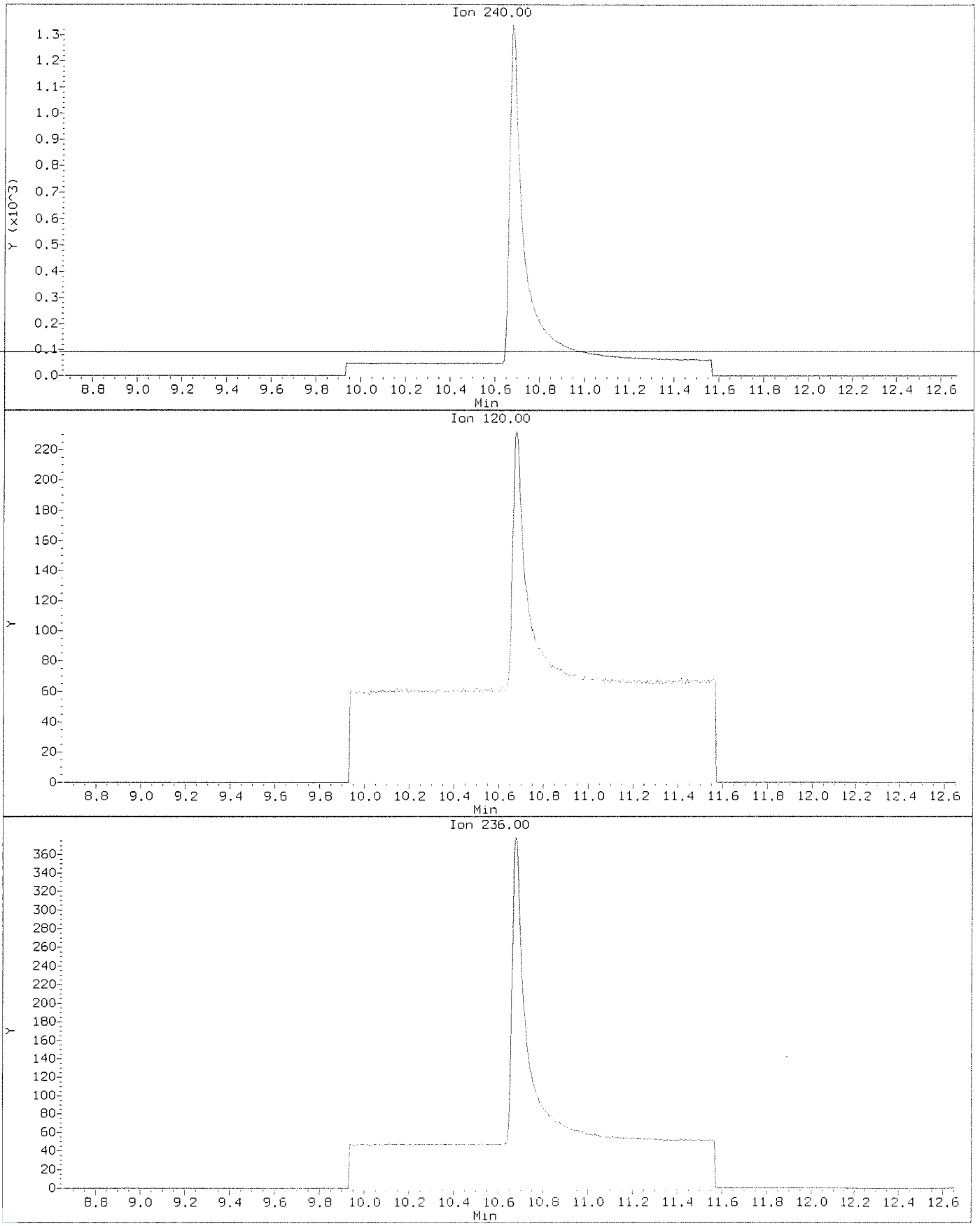
Compound: 2-Fluorobiphenyl
CAS Number: 321-60-8





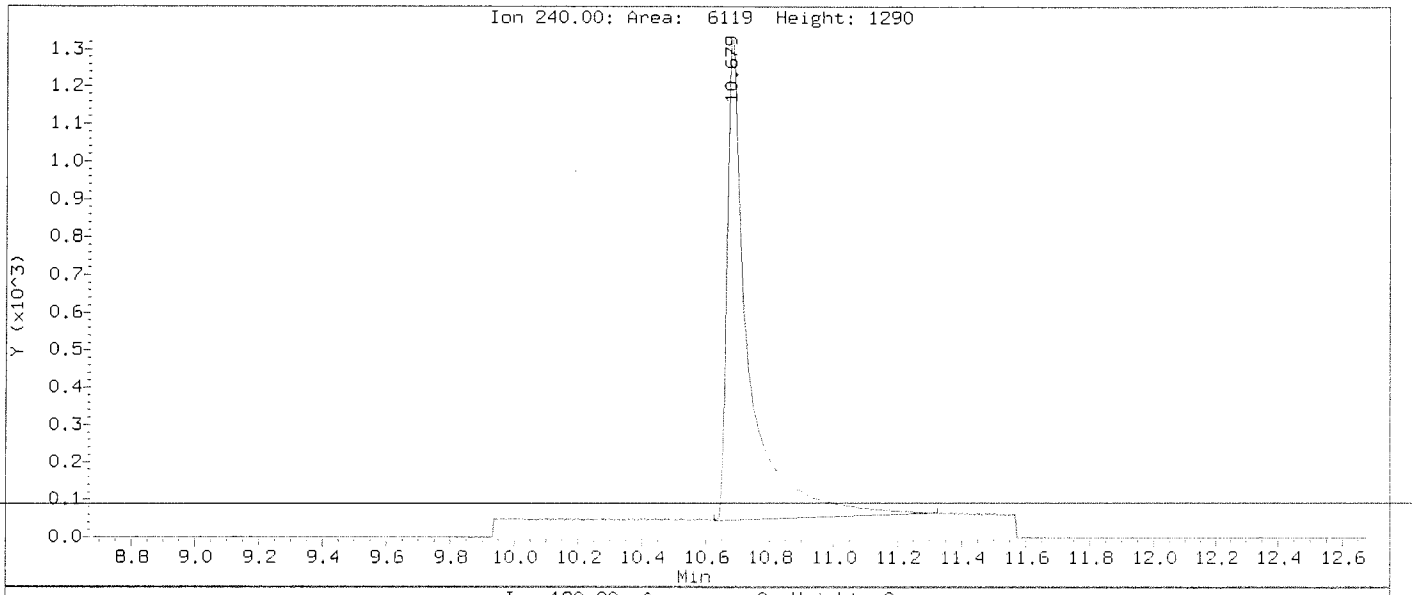
Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\Before\31.D
Injection Date: 23-AUG-2022 19:03
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

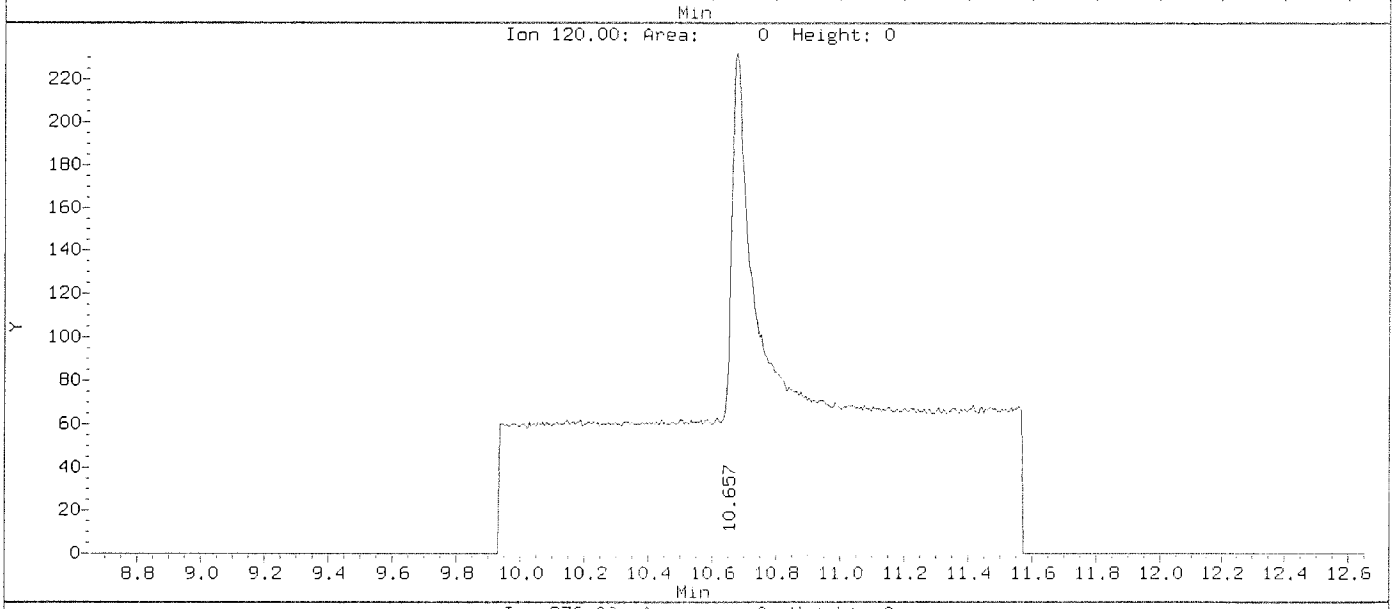
Compound: Chrysene-d12
CAS Number: 1719-03-5

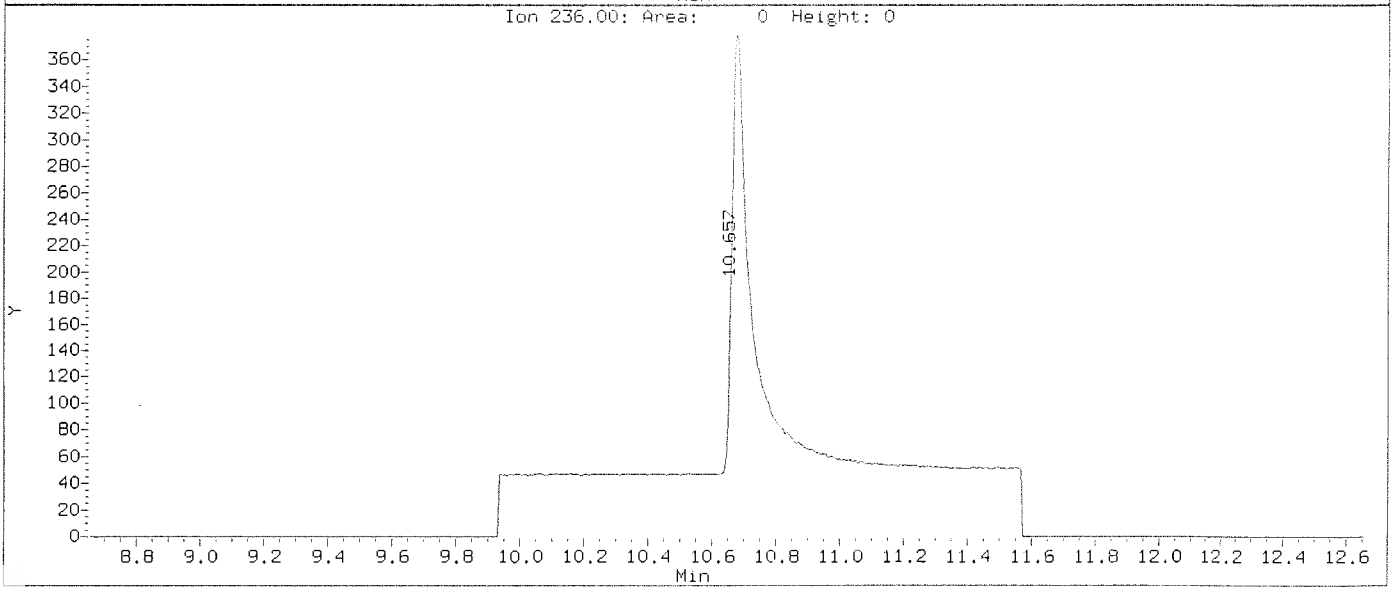


Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\31.D
Injection Date: 23-AUG-2022 19:03
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

Compound: Chrysene-d12
CAS Number: 1719-03-5

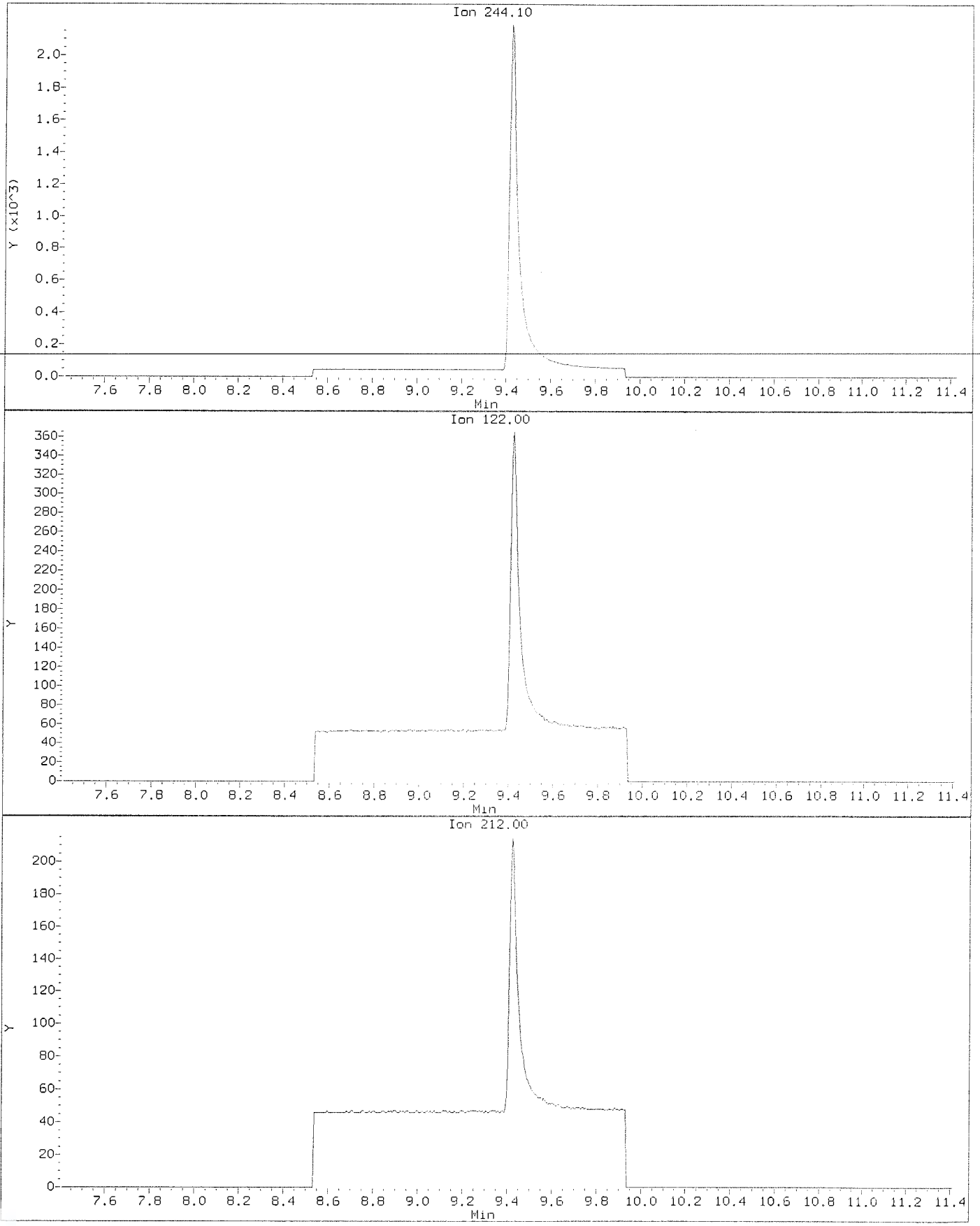






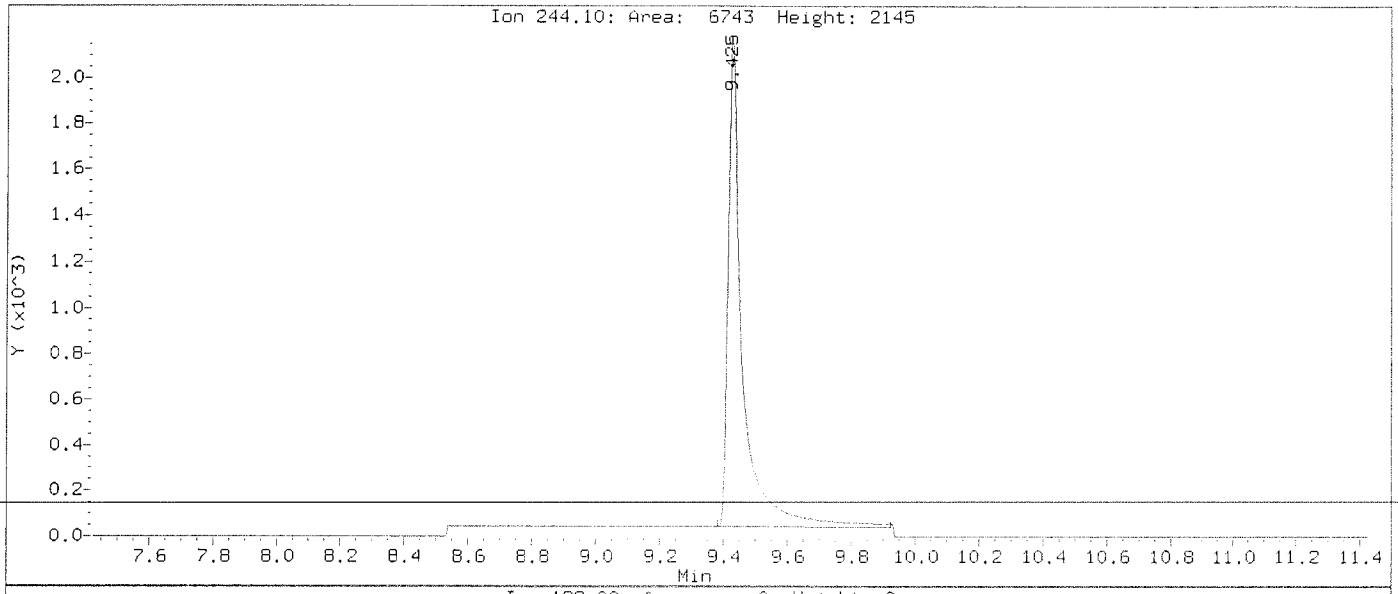
Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\Before\31.D
Injection Date: 23-AUG-2022 19:03
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

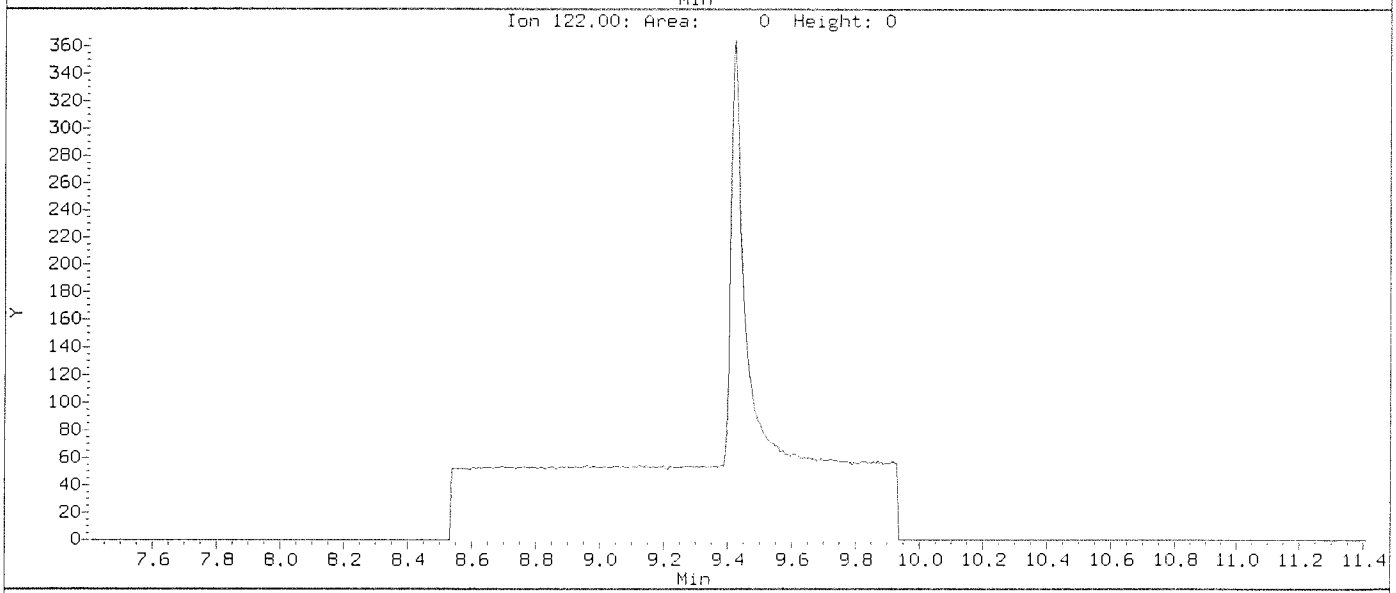
Compound: 4-Terphenyl-d14
CAS Number: 1718-51-0

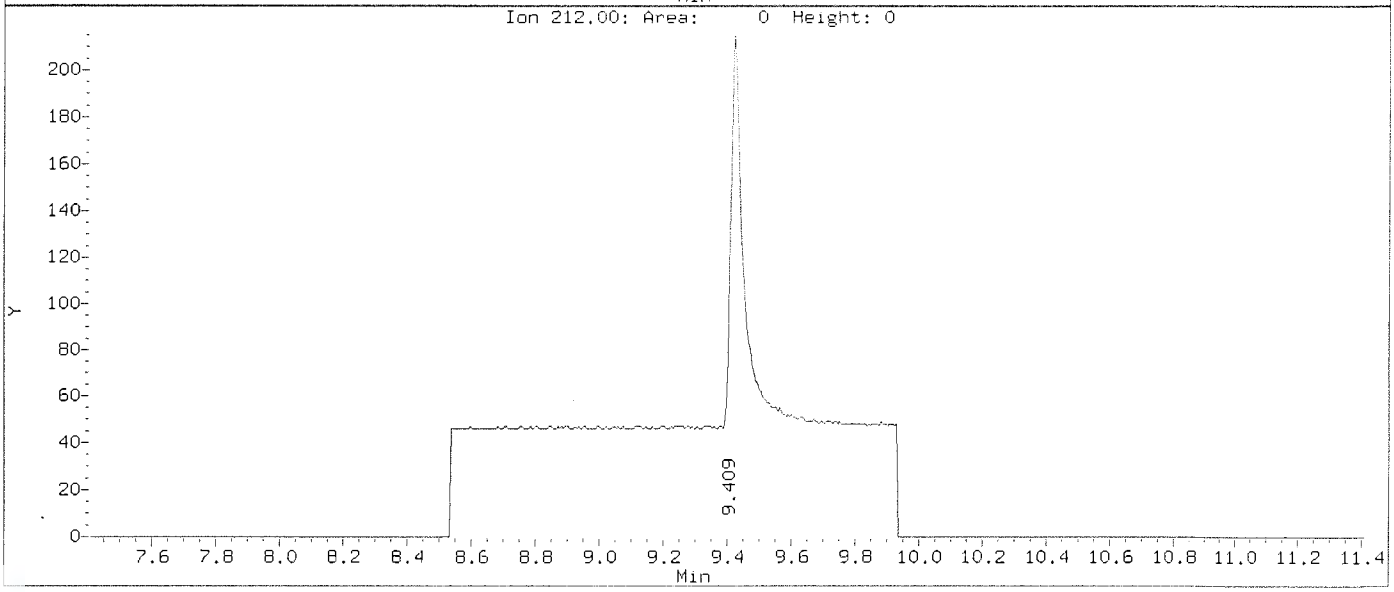


Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\31.D
Injection Date: 23-AUG-2022 19:03
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

Compound: 4-Terphenyl-d14
CAS Number: 1718-51-0

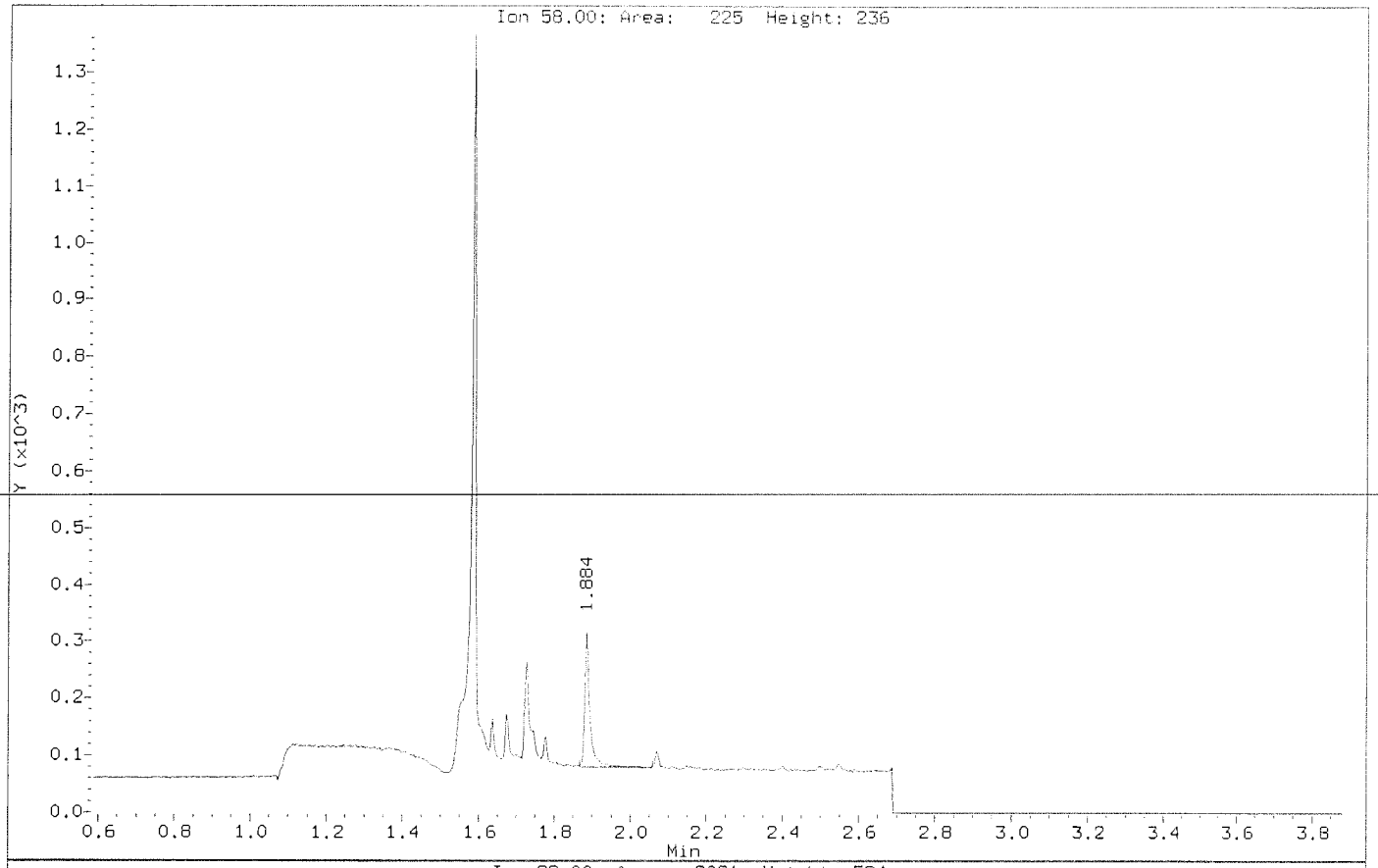


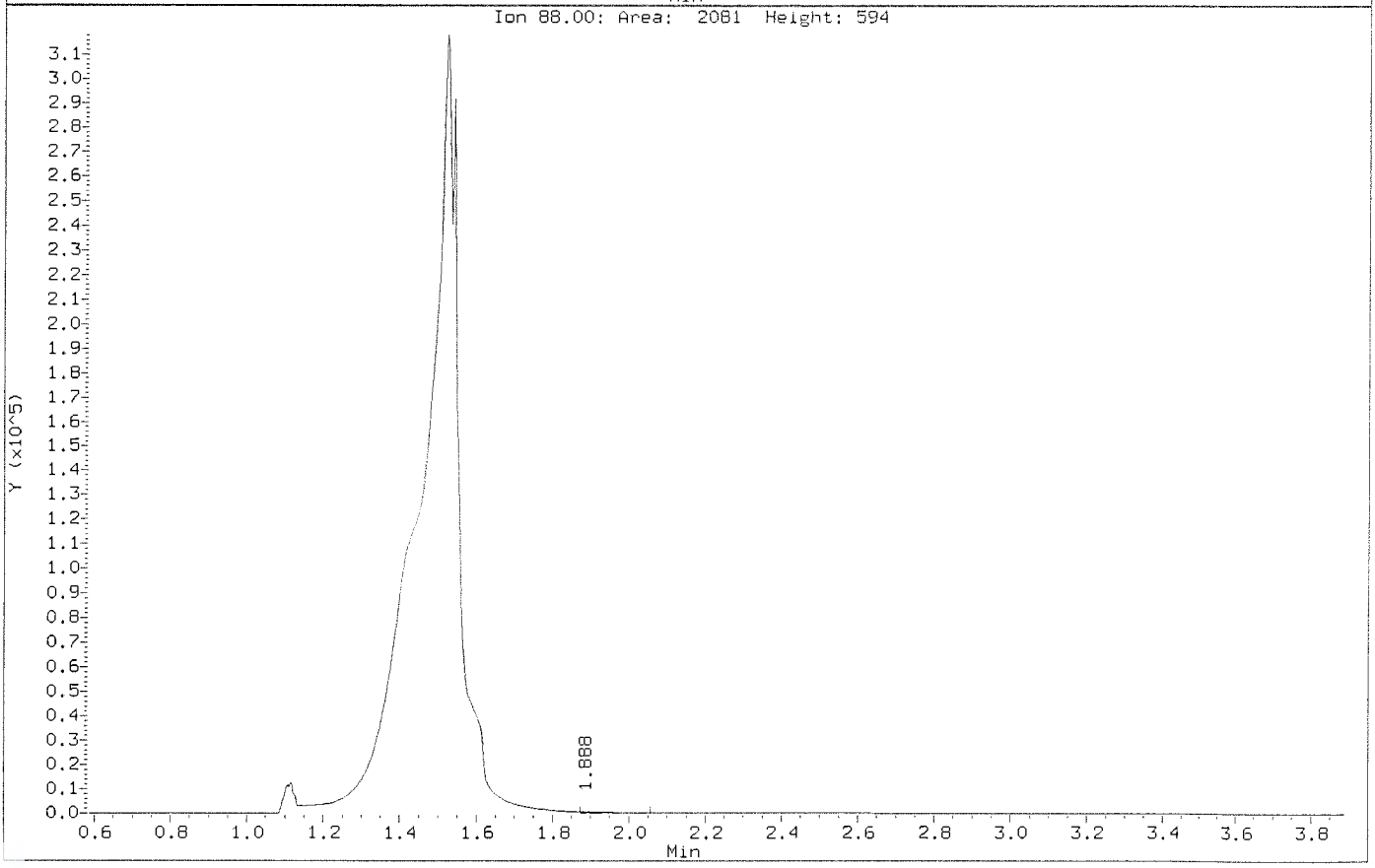




Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\Before\31.D
Injection Date: 23-AUG-2022 19:03
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

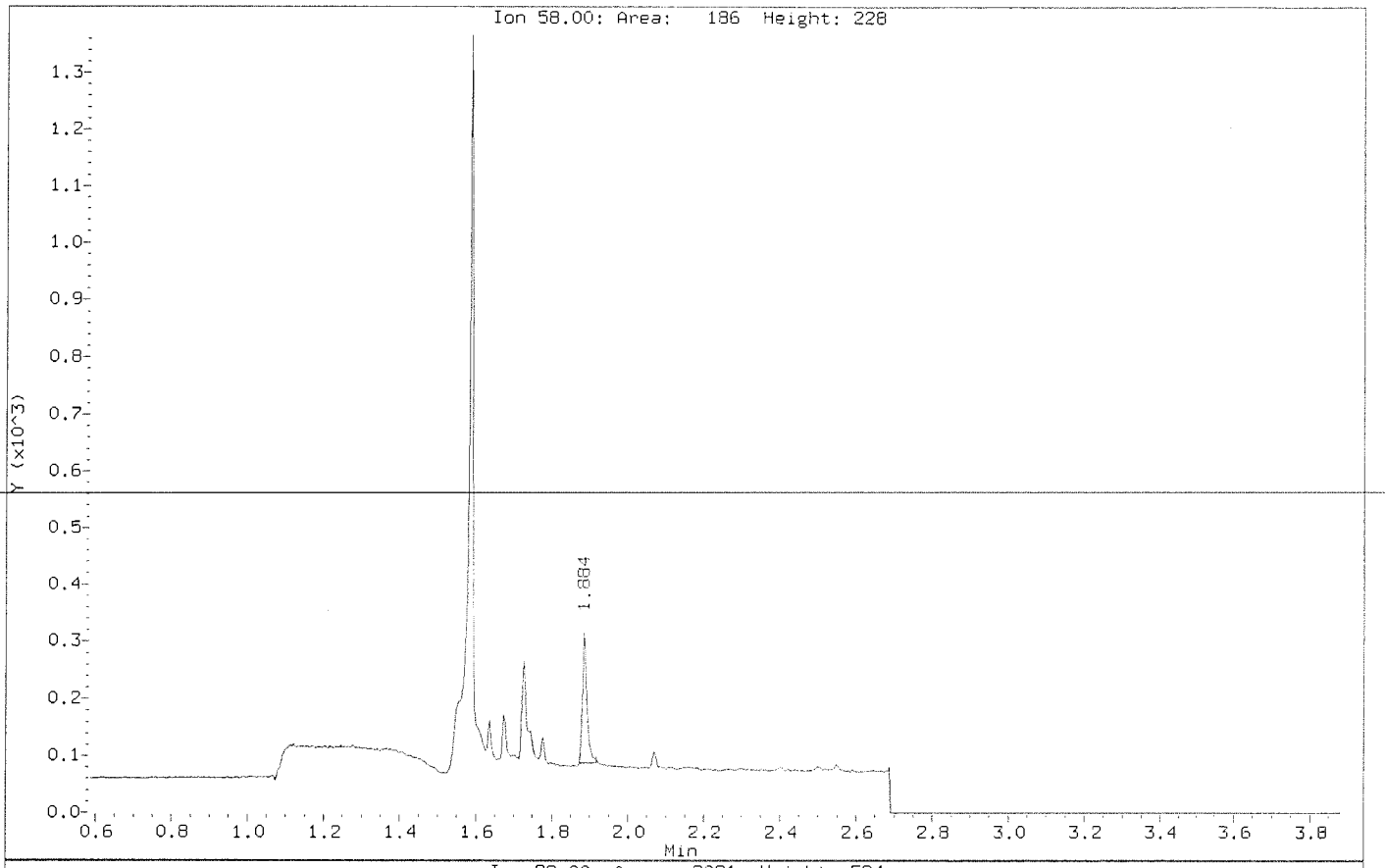
Compound: 1,4-Dioxane
CAS Number:

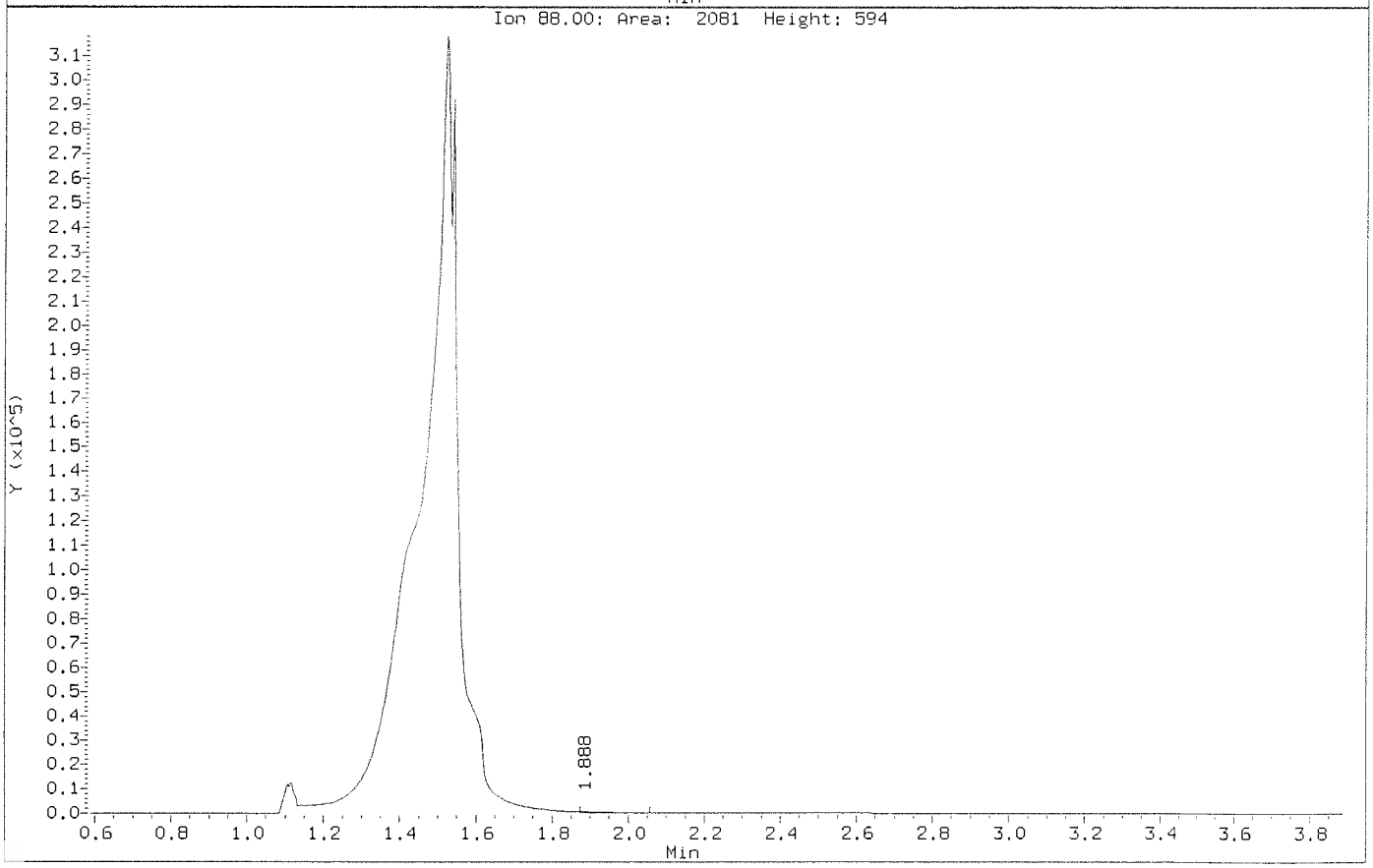




Data File: \\NAHSTWS005\Target\chem\SV6.i\220823.b\31.D
Injection Date: 23-AUG-2022 19:03
Instrument: SV6.i
Client Sample ID: 1 4DIOX-CCV

Compound: 1,4-Dioxane
CAS Number:





Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\01.D

Date : 27-AUG-2022 10:44

Client ID: DFTPP

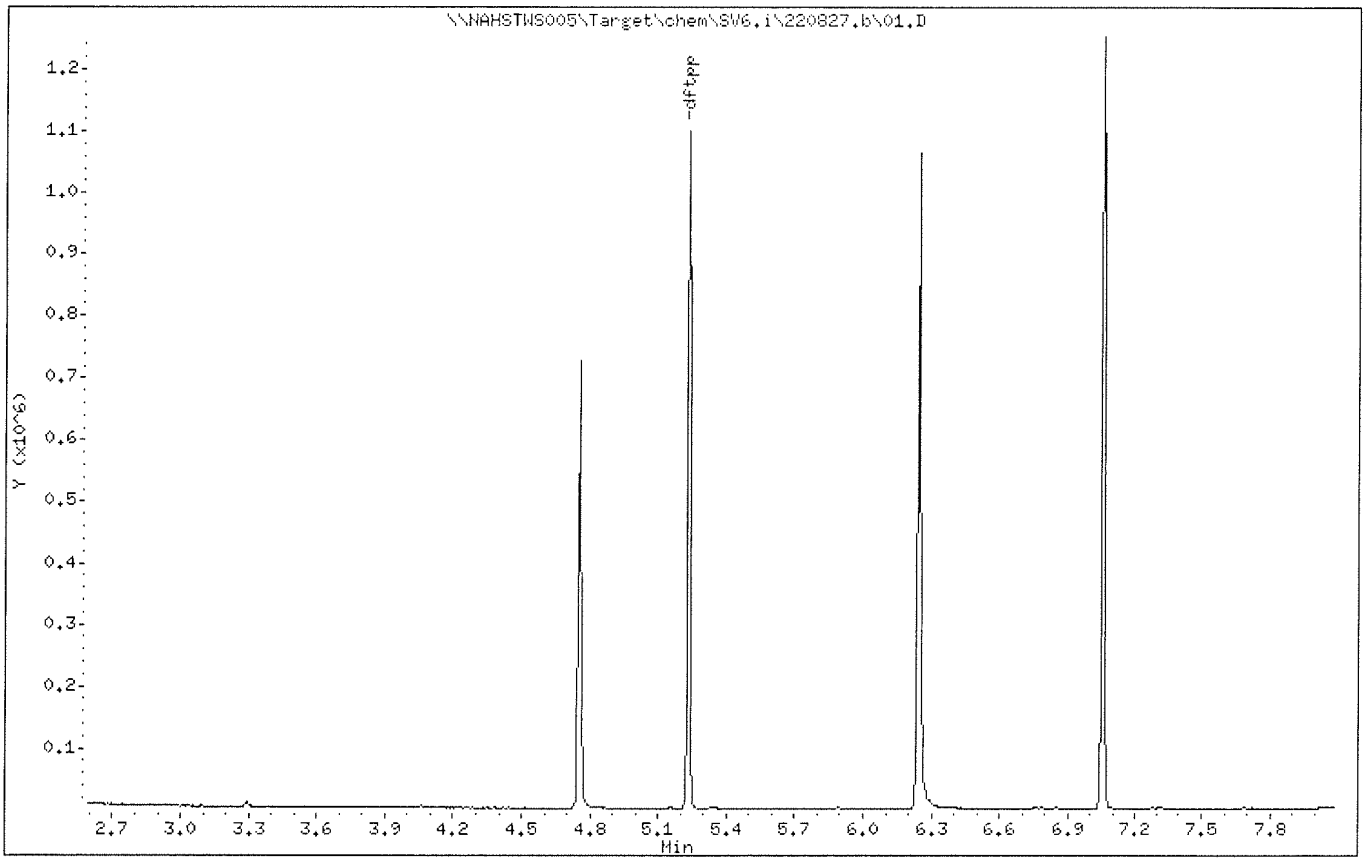
Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\01.D

Date : 27-AUG-2022 10:44

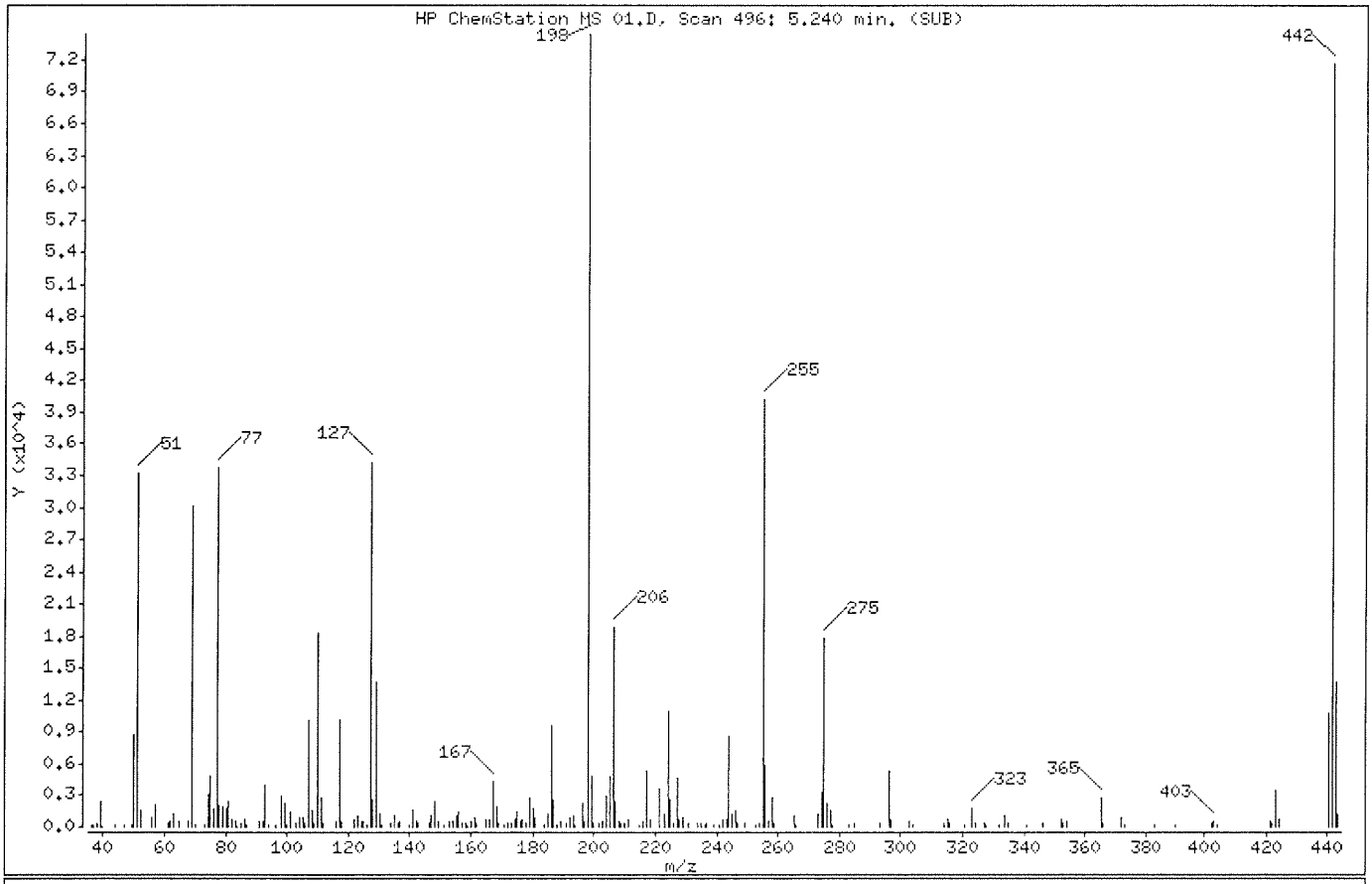
Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	44.64
68	Less than 2.00% of mass 69	0.60 (1.49)
69	Mass 69 relative abundance	40.45
70	Less than 2.00% of mass 69	0.22 (0.55)
127	10.00 - 80.00% of mass 198	46.03
197	Less than 2.00% of mass 198	0.62
199	5.00 - 9.00% of mass 198	6.53
275	10.00 - 60.00% of mass 198	23.85
365	1.00 - 100.00% of mass 198	3.59
441	Present, but less than mass 443	14.51
442	50.00 - 150.00% of mass 198	96.32
443	15.00 - 24.00% of mass 442	18.45 (19.16)

Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\01.D

Date : 27-AUG-2022 10:44

Client ID: DFTPP

Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25

Data File: 01.D

Spectrum: HP ChemStation MS 01.D, Scan 496: 5.240 min, (SUB)

Location of Maximum: 198.00

Number of points: 212

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	157	116.00	559	186.00	9615	258.00	2711
37.00	221	117.00	10026	187.00	2517	259.00	402
38.00	325	118.00	578	188.00	252	265.00	1007
39.10	2358	122.00	668	189.00	596	265.90	163
40.00	69	123.00	1063	191.00	351	273.00	1253
44.00	98	124.00	480	192.00	904	274.00	3172
47.00	161	125.00	448	193.00	1022	275.00	17736
49.00	91	126.10	173	194.00	226	276.00	2299
50.10	8637	127.00	34232	196.00	2257	277.00	1508
51.10	33200	128.00	2548	197.00	461	278.00	223
52.10	1583	129.00	13618	198.00	74376	283.00	175
56.00	870	130.00	1128	199.00	4857	285.10	275
57.00	2038	130.90	230	200.00	365	293.00	379
61.00	355	133.90	294	201.50	286	296.00	5295
62.00	461	135.00	1078	203.00	535	297.00	728
63.10	1209	136.00	406	204.00	2870	303.00	564
65.00	522	137.00	534	205.00	4716	304.00	214
68.00	447	140.00	189	206.10	18872	314.00	261
69.00	30080	141.00	1557	207.10	2398	315.00	689
70.00	164	142.00	519	208.00	596	316.00	302
73.00	247	142.90	362	208.90	257	320.90	170
74.00	3036	146.00	339	210.00	306	323.10	1771
75.00	4718	147.00	1014	211.00	690	324.00	353
76.00	1645	148.00	2441	215.00	224	327.00	293
77.10	33640	149.00	478	216.00	432	328.00	181
78.10	2019	151.00	197	217.00	5268	332.00	152
79.00	1812	153.00	551	218.00	689	334.00	1060
80.00	1665	154.00	477	221.00	3546	335.00	283
81.00	2378	155.00	1019	223.00	1275	341.00	175
82.00	663	156.00	1435	224.10	10912	346.00	376
83.00	545	157.00	264	225.10	2617	352.00	625
83.90	28	157.90	295	226.00	281	353.00	367
85.00	408	159.00	208	227.00	4607	354.00	479
86.00	668	160.00	509	228.00	700	365.00	2672
87.00	245	161.00	845	229.00	926	366.00	328

Data File: \\NAHSTWS005\Target\chem\SW6.i\220827.b\01.D

Date : 27-AUG-2022 10:44

Client ID: DFTPP Instrument: SW6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 01.D
Spectrum: HP ChemStation MS 01.D, Scan 496: 5.240 min, (SUB)
Location of Maximum: 198.00
Number of points: 212

m/z	Y	m/z	Y	m/z	Y	m/z	Y
91.00	531	161.90	290	231.00	391	372.00	855
92.00	533	165.00	767	233.90	262	373.00	186
93.00	3925	166.00	606	235.00	262	383.00	245
93.90	236	167.00	4192	236.00	194	390.00	154
96.00	162	168.00	1846	237.00	386	402.00	395
98.00	2918	169.00	373	239.00	168	403.00	478
99.00	2221	170.90	161	241.00	253	404.00	238
99.90	162	172.00	300	242.00	625	421.00	508
101.00	1286	173.00	413	243.00	619	422.00	387
103.00	386	174.00	696	244.10	8529	423.10	3407
104.00	857	175.00	1434	245.00	1152	424.10	732
105.00	816	176.00	447	246.00	1576	441.10	10789
105.90	275	176.90	605	247.00	344	442.10	71640
107.00	10158	178.00	259	249.00	263	443.10	13726
108.00	1507	179.00	2697	253.00	208	444.00	1189
109.00	276	180.00	1754	254.00	353		
110.00	18344	181.00	854	255.00	40264		
111.00	2696	184.00	218	256.00	5763		
112.00	308	185.00	1231	257.00	471		

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220827.b\03.D
Lab Smp Id: 1,4-DIOX-CCV Client Smp ID: 1,4-DIOX-CCV
Inj Date : 27-AUG-2022 11:26
Operator : LG Inst ID: SV6.i
Smp Info : 1,4-DIOX-0.08;1,4-DIOX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220827.b\DXSIM.m
Meth Date : 07-Sep-2022 13:04 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 12:56 Cal File: 009.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.368	3.368	(1.000)	5445	0.10000	(aM)
* 45 Naphthalene-d8	136	4.471	4.471	(1.000)	14264	0.10000	
$ 33 Nitrobenzene-d5	82	3.830	3.830	(0.857)	3751	0.08000	0.07889(QM)
* 86 Acenaphthene-d10	164	6.138	6.138	(1.000)	8311	0.10000	(Q)
$ 69 2-Fluorobiphenyl	172	5.492	5.492	(0.895)	10356	0.08000	0.08005(M)
* 126 Phenanthrene-d10	188	7.578	7.578	(1.000)	17053	0.10000	(M)
* 182 Chrysene-d12	240	10.332	10.332	(1.000)	6694	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.148	9.148	(0.885)	9417	0.08000	0.07482(M)
* 198 Perylene-d12	264	12.319	12.319	(1.000)	5099	0.10000	(M)
1 1,4-Dioxane	58	1.670	1.670	(0.496)	212	0.08000	0.09484(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.

01141523

Data File: \\NAHSTWS005\Target\chem\SW6.i\220827.b\03.D

Date : 27-AUG-2022 11:26

Client ID: 1,4-DIOX-CCV

Instrument: SW6.i

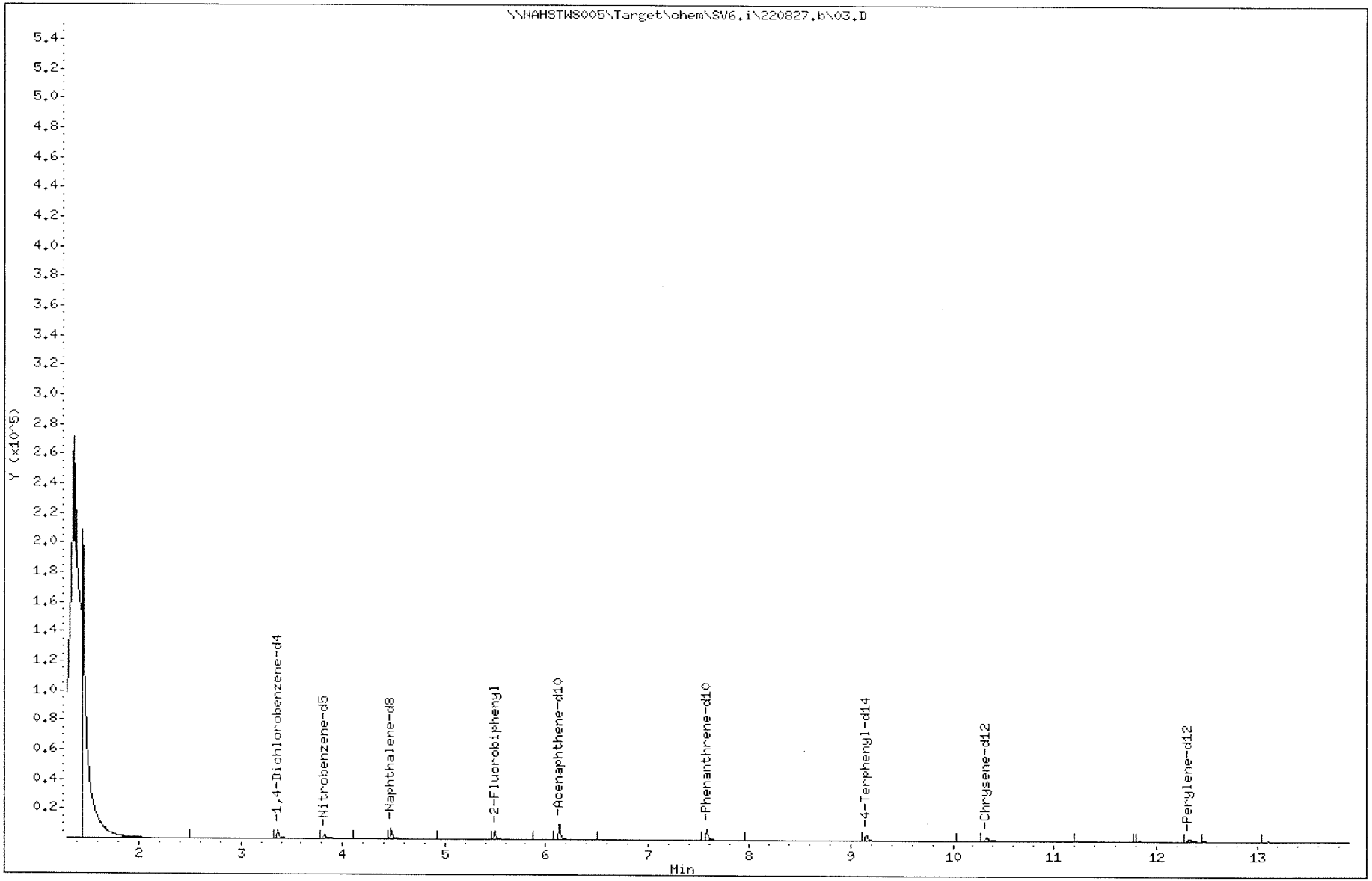
Sample Info: 1,4-DIOX-0.08:1,4-DIOX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



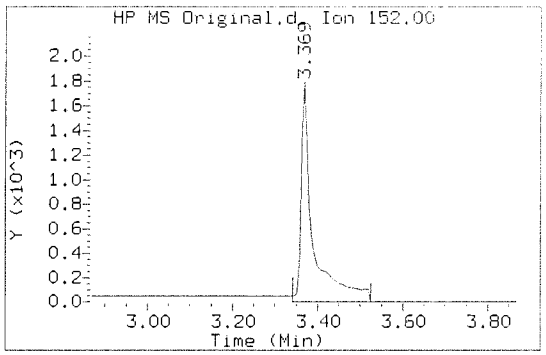
Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\03.D
Inj Date : 27-AUG-2022 11:26
InstruID : SV6.i
LabSampID : 1,4-DIOX-CCV

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

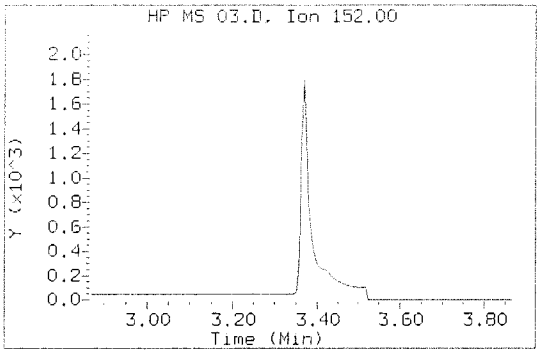
BEFORE

MASS 152
AREA 3472
HEIGHT 1797
27-Aug-2022 11:47
marco gutierrez



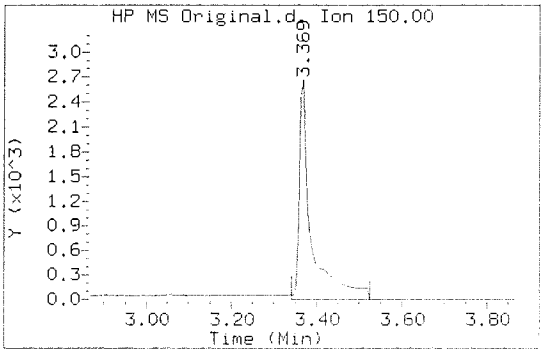
AFTER

MASS 152
AREA 5445
HEIGHT 1797
07-Sep-2022 13:04
marco gut



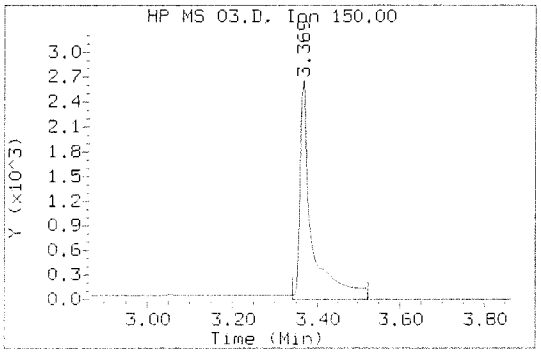
BEFORE

MASS 150
AREA 5205
HEIGHT 2671
27-Aug-2022 11:47
marco gutierrez



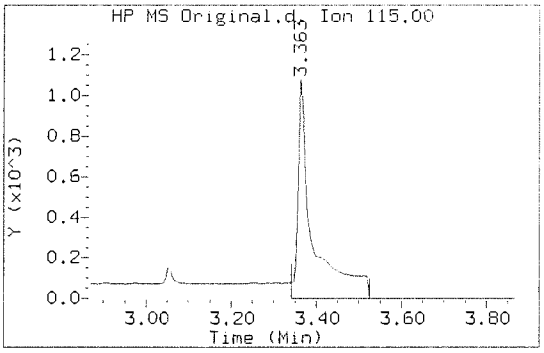
AFTER

MASS 150
AREA 5205
HEIGHT 2671
07-Sep-2022 13:04
marco gut



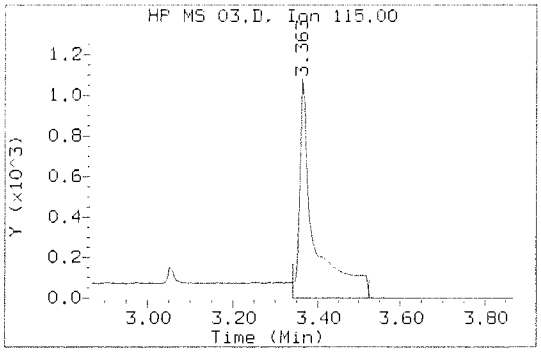
BEFORE

MASS 115
AREA 2579
HEIGHT 1082
27-Aug-2022 11:47
marco gutierrez



AFTER

MASS 115
AREA 2579
HEIGHT 1082
07-Sep-2022 13:04
marco gut

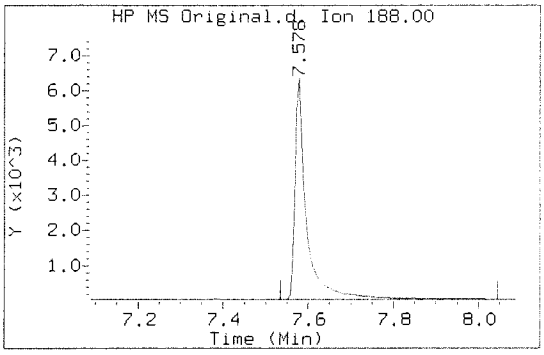


Phenanthrene-d10 (1517-22-2)

Reason Code:

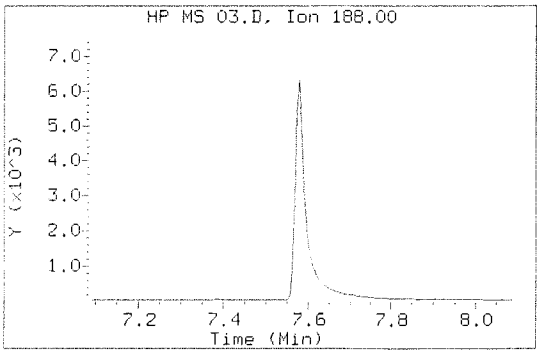
BEFORE

MASS 188
AREA 12044
HEIGHT 6286
27-Aug-2022 11:47
marco gutierrez



AFTER

MASS 188
AREA 17053
HEIGHT 6334
07-Sep-2022 13:04
marco gut

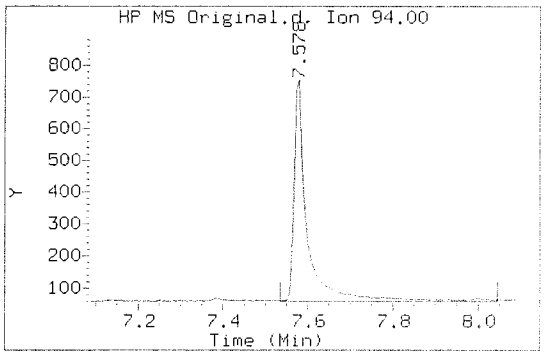


Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\03.D
Inj Date : 27-AUG-2022 11:26
InstruID : SV6.i
LabSampID : 1,4-DIOX-CCV

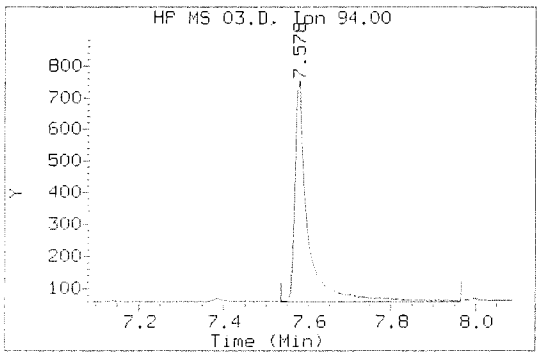
Phenanthrene-d10 (1517-22-2)

Reason Code:

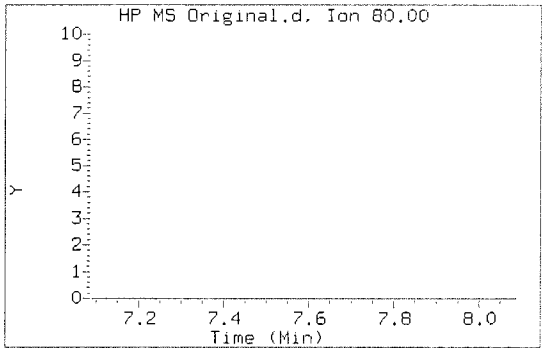
BEFORE
MASS
94
AREA
1481
HEIGHT
693
27-Aug-2022
11:47
marco
gutierrez



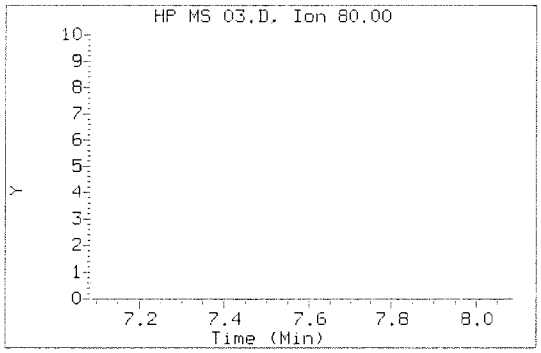
AFTER
MASS
94
AREA
1455
HEIGHT
693
07-Sep-2022
13:04
marco
gut



BEFORE
MASS
80
AREA
0
HEIGHT
0
27-Aug-2022
11:47
marco
gutierrez



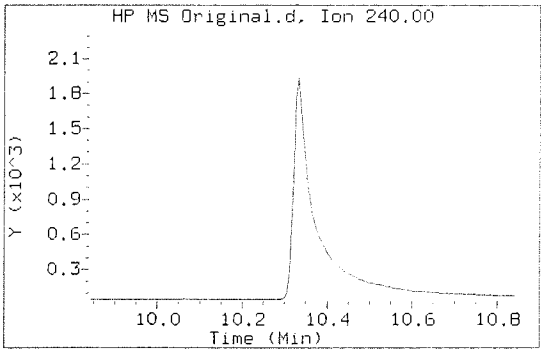
AFTER
MASS
80
AREA
0
HEIGHT
0
07-Sep-2022
13:04
marco
gut



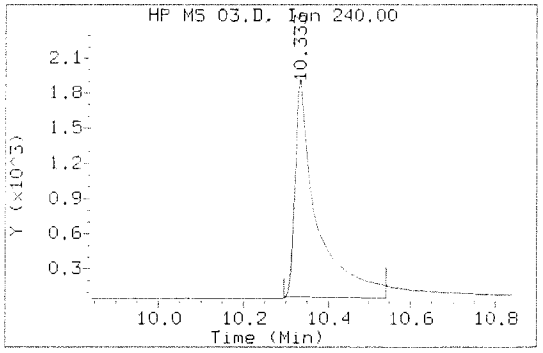
Chrysene-d12 (1719-03-5)

Reason Code:

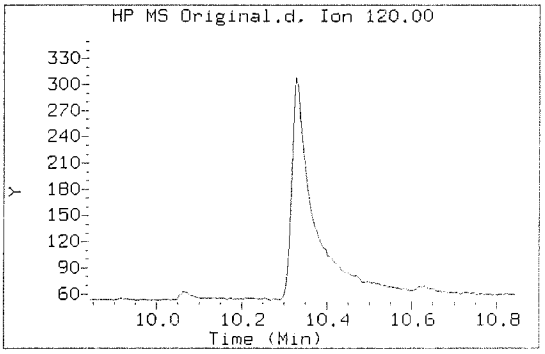
BEFORE
MASS
240
AREA
0
HEIGHT
0
27-Aug-2022
11:47
marco
gutierrez



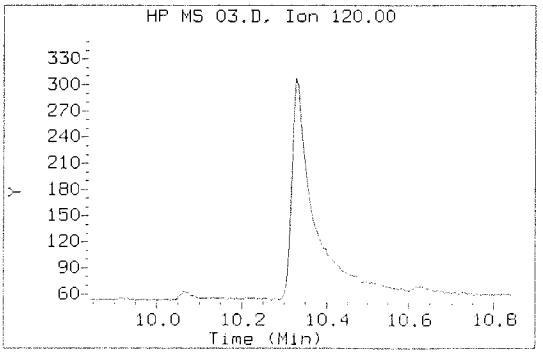
AFTER
MASS
240
AREA
1876
HEIGHT
1876
07-Sep-2022
13:04
marco
gut



BEFORE
MASS
120
AREA
0
HEIGHT
0
27-Aug-2022
11:47
marco
gutierrez



AFTER
MASS
120
AREA
0
HEIGHT
0
07-Sep-2022
13:04
marco
gut



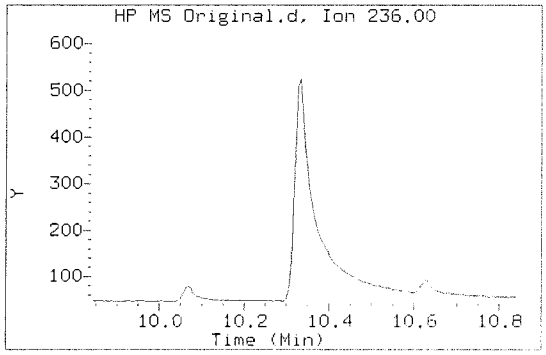
Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\03.D
Inj Date : 27-AUG-2022 11:26
InstruID : SV6.i
LabSampID : 1,4-DIOX-CCV

Chrysene-d12 (1719-03-5)

Reason Code:

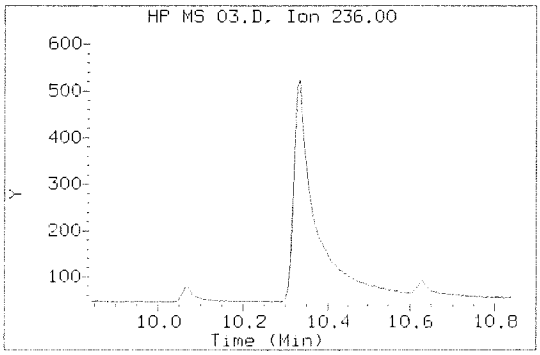
BEFORE

MASS
236
AREA
0
HEIGHT
0
27-Aug-2022
11:47
marco
gutierrez



AFTER

MASS
236
AREA
0
HEIGHT
0
07-Sep-2022
13:04
marco
gut

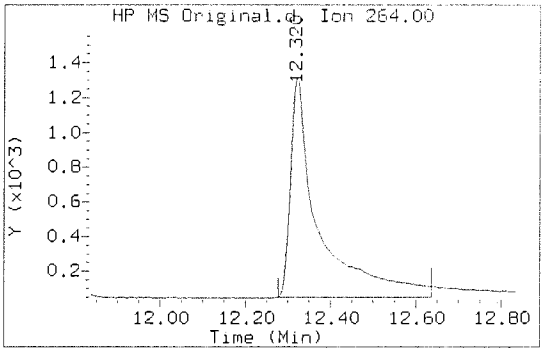


Perylene-d12 (1520-96-3)

Reason Code:

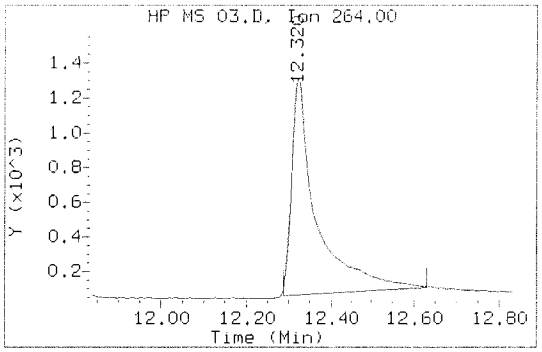
BEFORE

MASS
264
AREA
5854
HEIGHT
1257
27-Aug-2022
11:47
marco
gutierrez



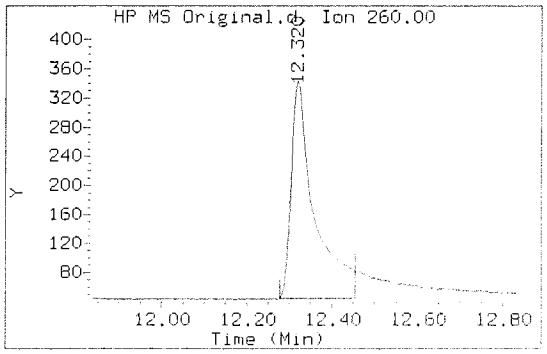
AFTER

MASS
264
AREA
5029
HEIGHT
1240
07-Sep-2022
13:04
marco
gut



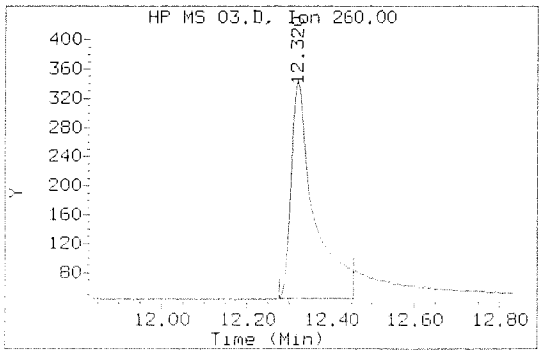
BEFORE

MASS
260
AREA
1127
HEIGHT
300
27-Aug-2022
11:47
marco
gutierrez



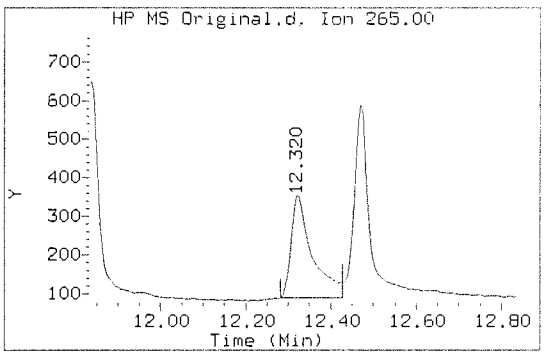
AFTER

MASS
260
AREA
1127
HEIGHT
300
07-Sep-2022
13:04
marco
gut



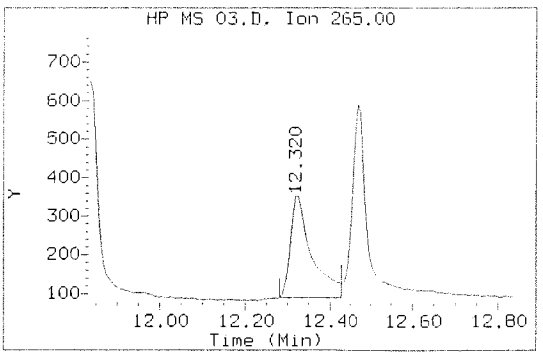
BEFORE

MASS
265
AREA
897
HEIGHT
262
27-Aug-2022
11:47
marco
gutierrez



AFTER

MASS
265
AREA
897
HEIGHT
262
07-Sep-2022
13:04
marco
gut



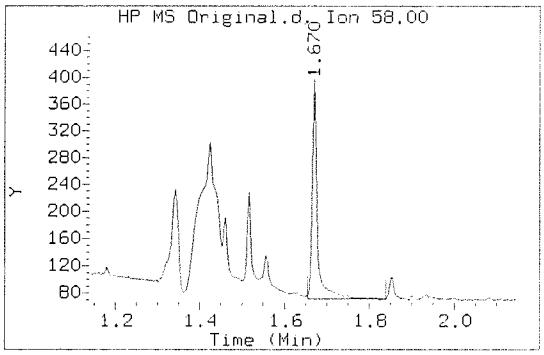
Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\03.D
Inj Date : 27-AUG-2022 11:26
InstruID : SV6.i
LabSampID : 1,4-DIOX-CCV

1,4-Dioxane ()

Reason Code:

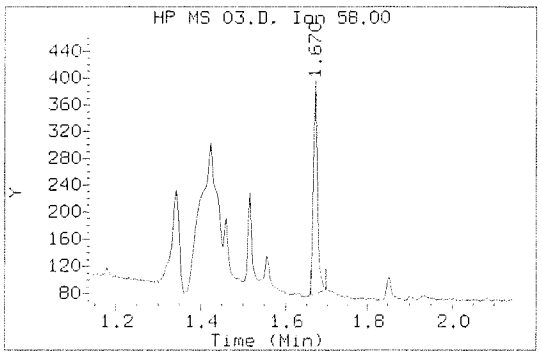
BEFORE

MASS
58
AREA
267
HEIGHT
325
27-Aug-2022
11:47
marco
gutierrez



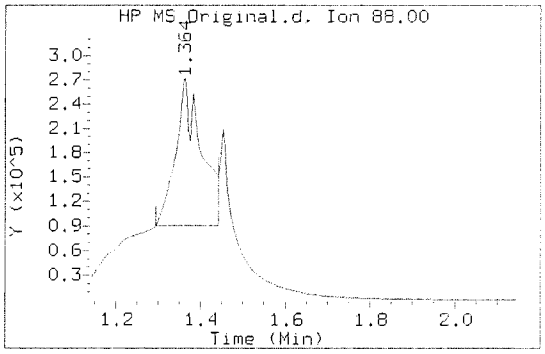
AFTER

MASS
58
AREA
212
HEIGHT
316
07-Sep-2022
13:04
marco
gut



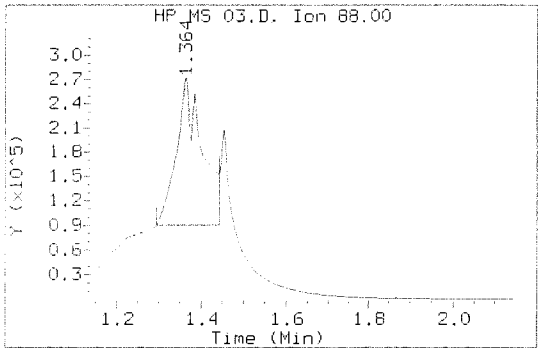
BEFORE

MASS
88
AREA
761634
HEIGHT
180968
27-Aug-2022
11:47
marco
gutierrez



AFTER

MASS
88
AREA
761634
HEIGHT
180968
07-Sep-2022
13:04
marco
gut

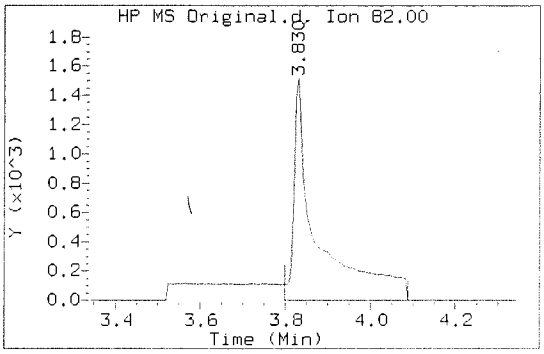


Nitrobenzene-d5 (4165-60-0)

Reason Code:

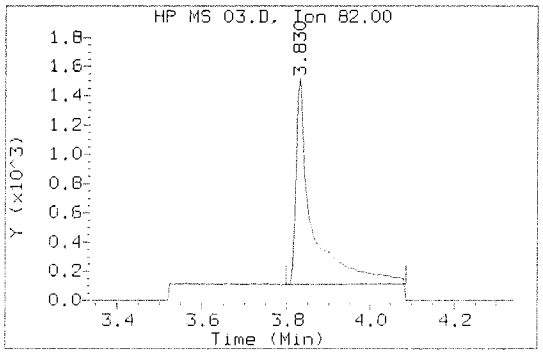
BEFORE

MASS
82
AREA
5734
HEIGHT
1518
27-Aug-2022
11:47
marco
gutierrez



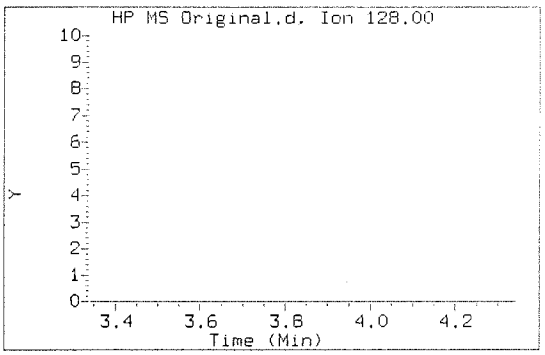
AFTER

MASS
82
AREA
3751
HEIGHT
1406
07-Sep-2022
13:04
marco
gut



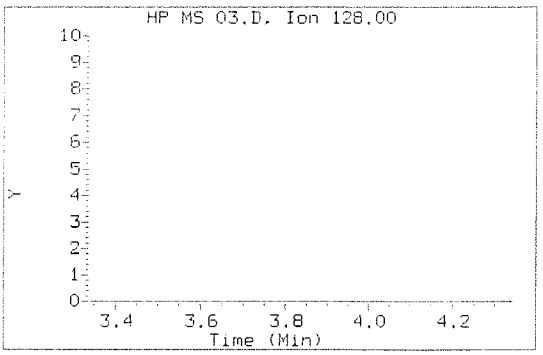
BEFORE

MASS
128
AREA
0
HEIGHT
0
27-Aug-2022
11:47
marco
gutierrez



AFTER

MASS
128
AREA
0
HEIGHT
0
07-Sep-2022
13:04
marco
gut

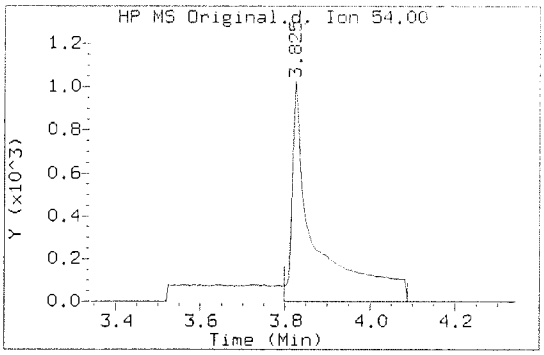


Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\03.D
Inj Date : 27-AUG-2022 11:26
InstruID : SV6.i
LabSampID : 1,4-DIOX-CCV

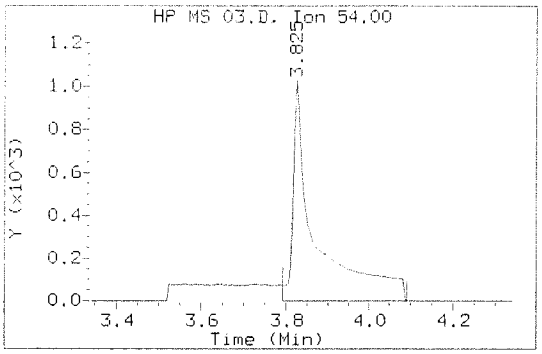
Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE
MASS
54
AREA
3621
HEIGHT
1030
27-Aug-2022
11:47
marco
gutierrez



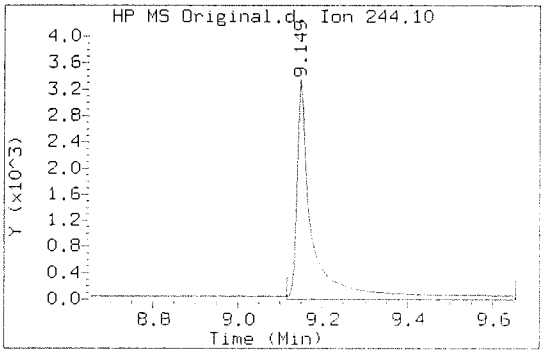
AFTER
MASS
54
AREA
3623
HEIGHT
1030
07-Sep-2022
13:04
marco
gut



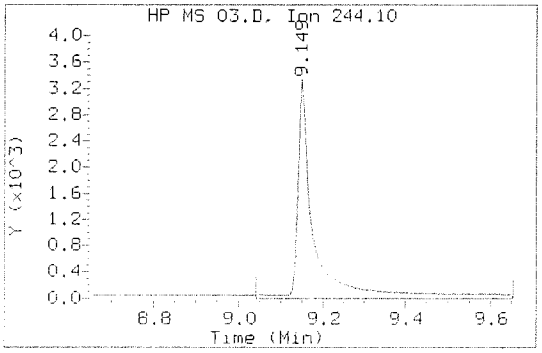
4-Terphenyl-d14 (1718-51-0)

Reason Code:

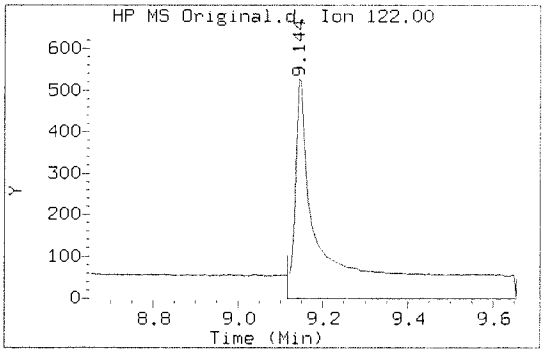
BEFORE
MASS
244.1
AREA
9048
HEIGHT
3351
27-Aug-2022
11:47
marco
gutierrez



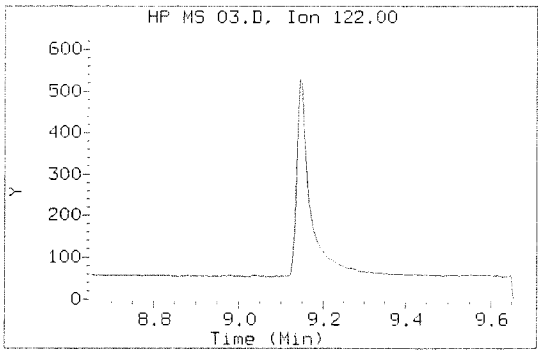
AFTER
MASS
244.1
AREA
9417
HEIGHT
3355
07-Sep-2022
13:04
marco
gut



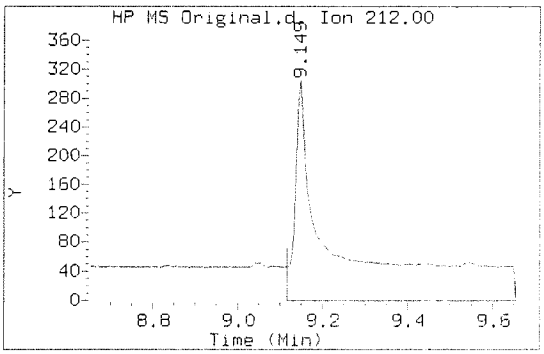
BEFORE
MASS
122
AREA
2871
HEIGHT
528
27-Aug-2022
11:47
marco
gutierrez



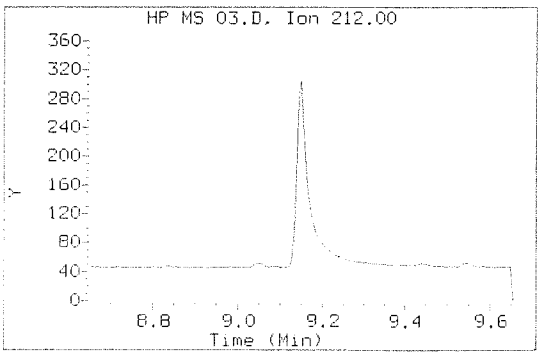
AFTER
MASS
122
AREA
0
HEIGHT
0
07-Sep-2022
13:04
marco
gut



BEFORE
MASS
212
AREA
2092
HEIGHT
305
27-Aug-2022
11:47
marco
gutierrez



AFTER
MASS
212
AREA
0
HEIGHT
0
07-Sep-2022
13:04
marco
gut

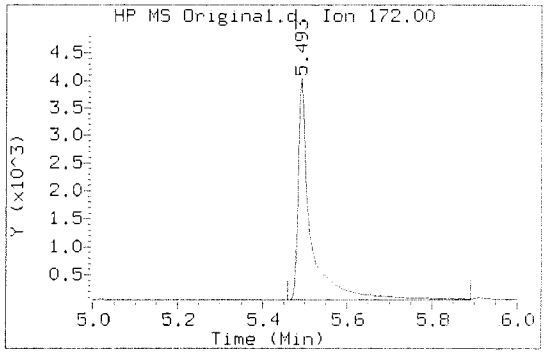


Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\03.D
Inj Date : 27-AUG-2022 11:26
InstruID : SV6.i
LabSampID : 1,4-DIOX-CCV

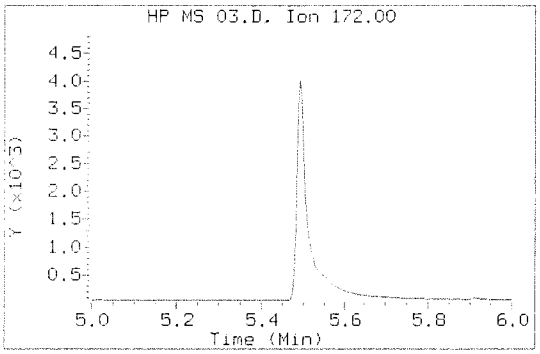
2-Fluorobiphenyl (321-60-8)

Reason Code:

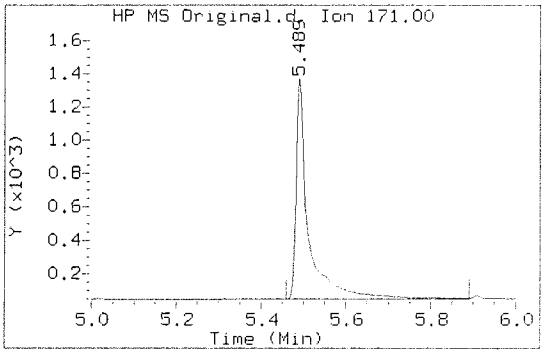
BEFORE
MASS
172
AREA
8149
HEIGHT
3988
27-Aug-2022
11:47
marco
gutierrez



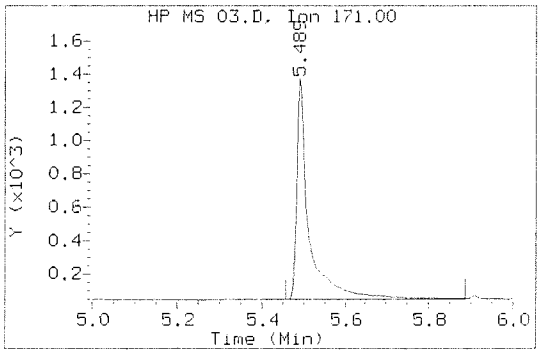
AFTER
MASS
172
AREA
1035
HEIGHT
4051
07-Sep-2022
13:04
marco
gut



BEFORE
MASS
171
AREA
2727
HEIGHT
1325
27-Aug-2022
11:47
marco
gutierrez



AFTER
MASS
171
AREA
2725
HEIGHT
1325
07-Sep-2022
13:04
marco
gut



Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\11.D Page 1
Report Date: 30-Aug-2022 15:50

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220827.b\11.D
Lab Smp Id: HS22080933-01
Inj Date : 27-AUG-2022 14:05
Operator : LG Inst ID: SV6.i
Smp Info : HS22080933-01
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\220827.b\DXSIM.m
Meth Date : 29-Aug-2022 09:27 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 12:56 Cal File: 009.D
Als bottle: 11
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	3.374	3.368	(1.000)	5575	0.10000	(aM)
* 45 Naphthalene-d8	136	4.471	4.471	(1.000)	12842	0.10000	
$ 33 Nitrobenzene-d5	82	3.830	3.830	(0.857)	2771	0.06473	0.06473(M)
* 86 Acenaphthene-d10	164	6.133	6.138	(1.000)	6918	0.10000	(Q)
$ 69 2-Fluorobiphenyl	172	5.489	5.492	(0.895)	5791	0.05378	0.05378(M)
* 126 Phenanthrene-d10	188	7.573	7.578	(1.000)	11973	0.10000	
* 182 Chrysene-d12	240	10.327	10.332	(1.000)	6055	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.143	9.148	(0.885)	6142	0.05395	0.05395(M)
* 198 Perylene-d12	264	12.314	12.319	(1.000)	5207	0.10000	
1 1,4-Dioxane	58	1.688	1.670	(0.501)	838	0.36615	0.3661(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.

01141531

Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\11.D

Date : 27-AUG-2022 14:05

Client ID:

Instrument: SV6.i

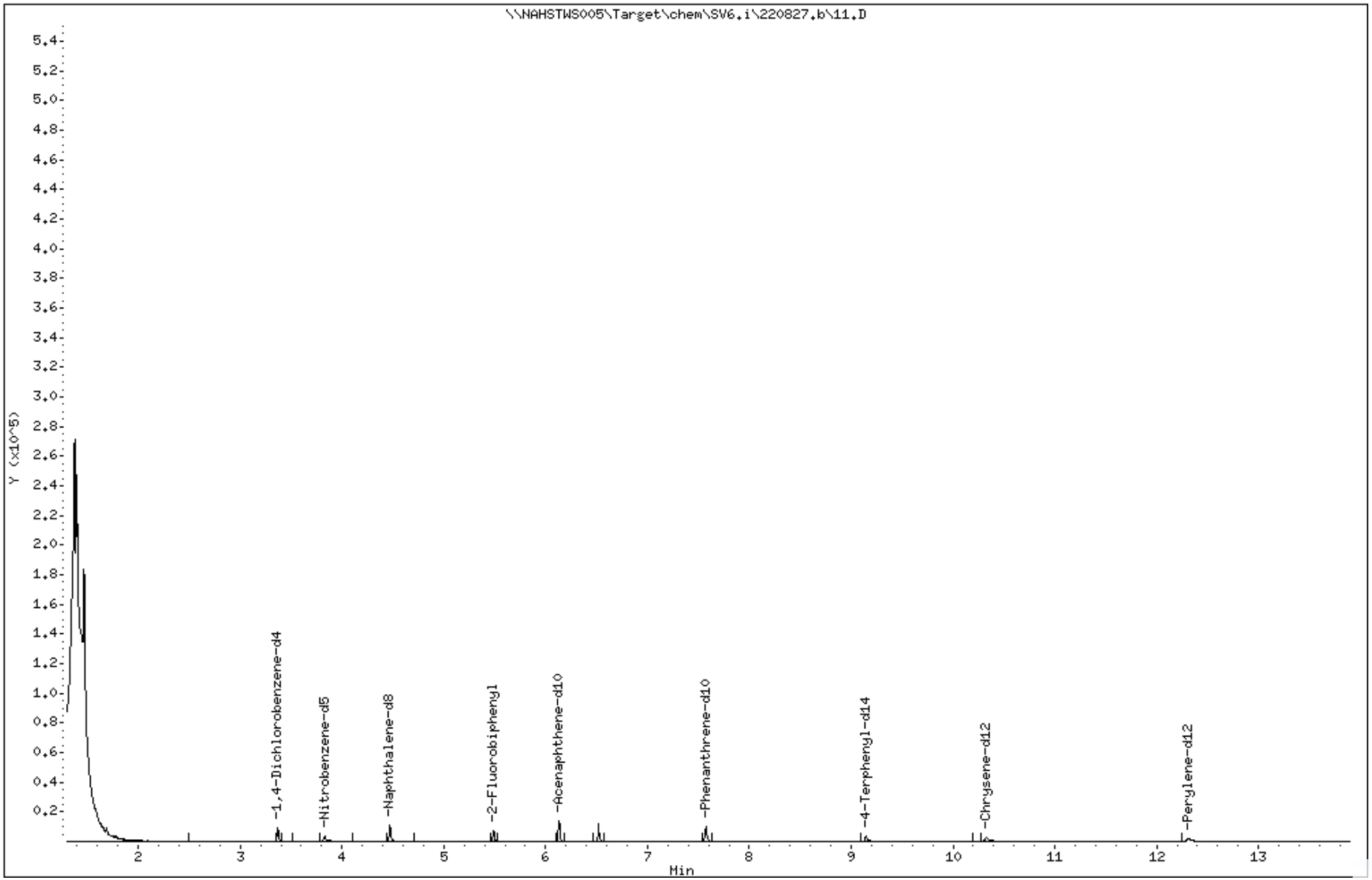
Sample Info: HS22080933-01

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\11.D

Date : 27-AUG-2022 14:05

Client ID:

Instrument: SV6.i

Sample Info: HS22080933-01

Purge Volume: 1000.0

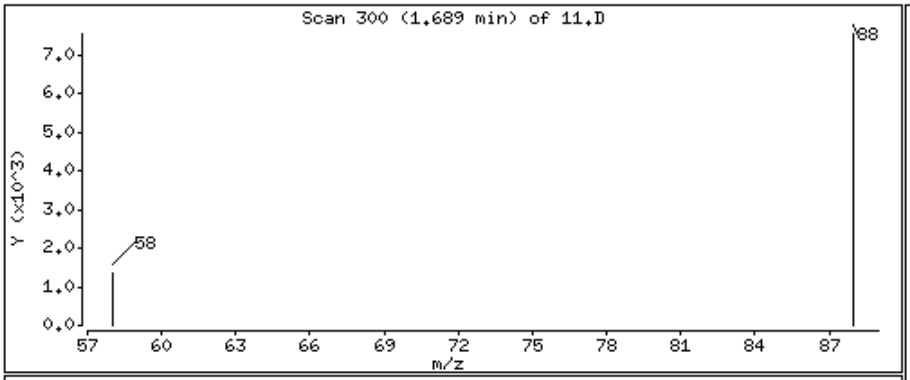
Operator: LG

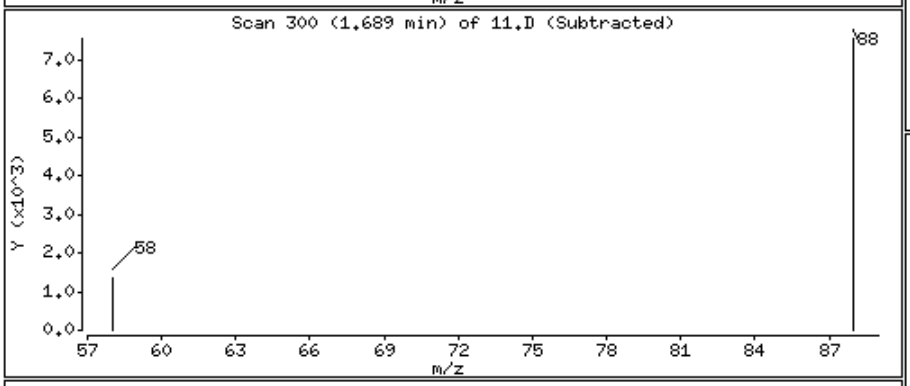
Column phase: RTX-5SIL MS

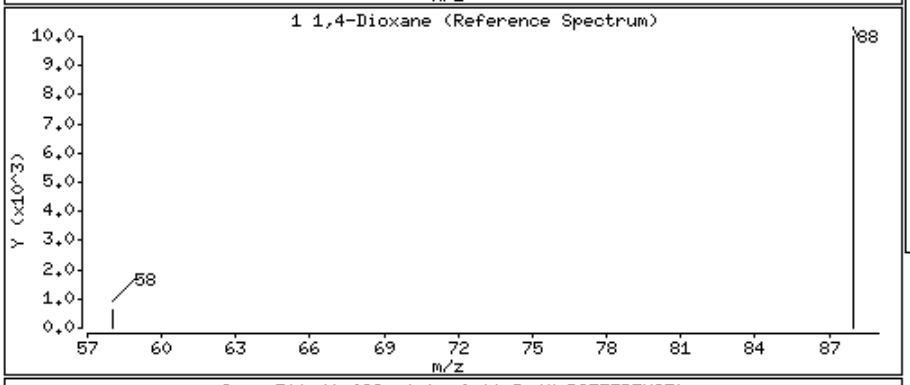
Column diameter: 0.28

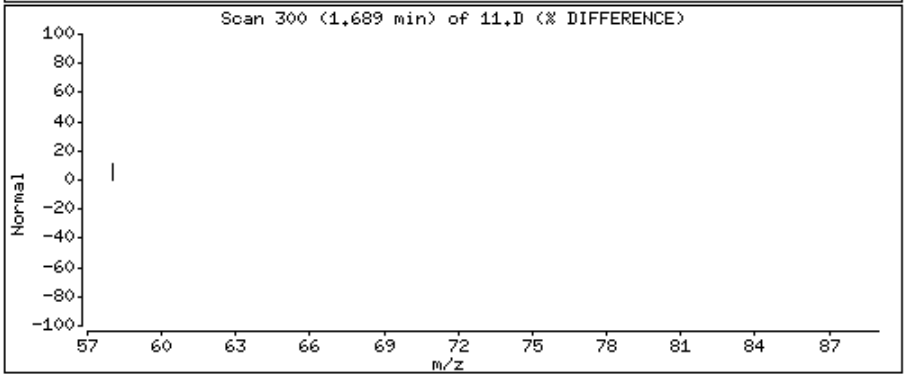
1 1,4-Dioxane

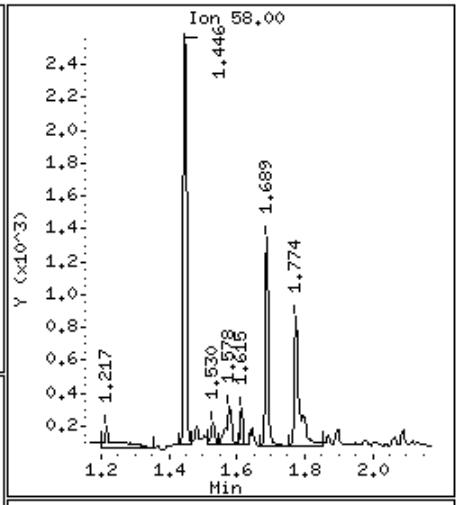
Concentration: 0.3661 ug/L

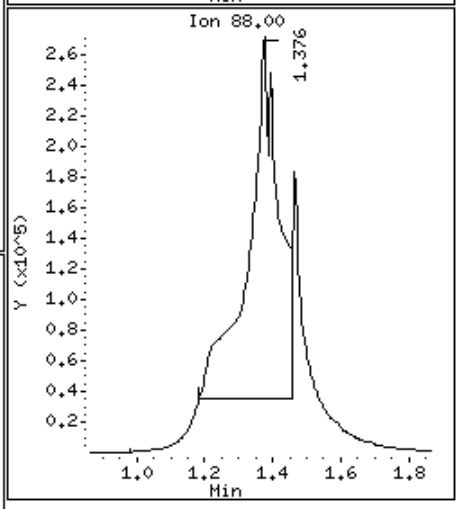










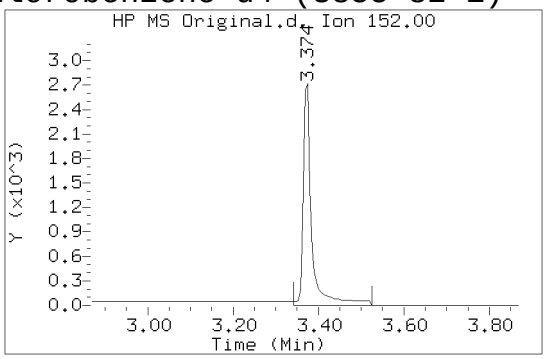


Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\11.D
Inj Date : 27-AUG-2022 14:05
InstruID : SV6.i
LabSampID : HS22080933-01

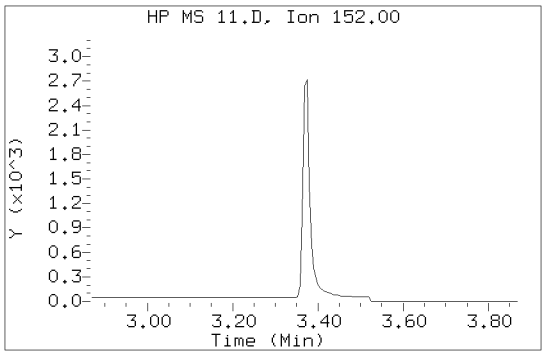
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

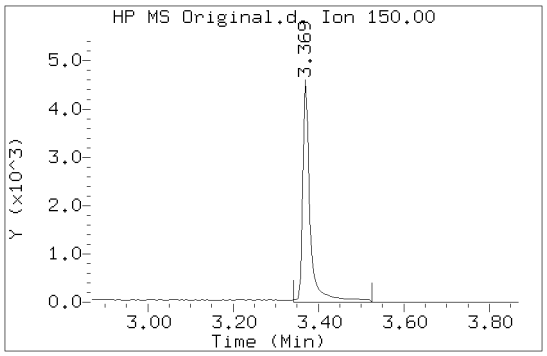
BEFORE
MASS
152
AREA
3681
HEIGHT
2717
27-Aug-2022
14:20
ALSHS
Server



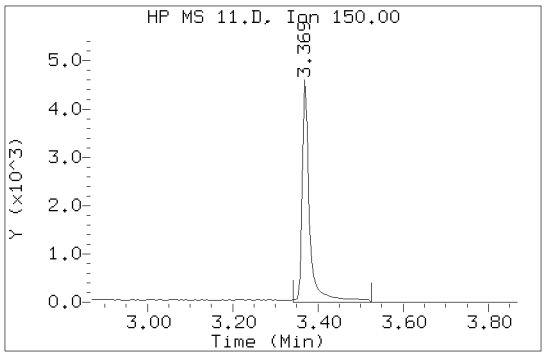
AFTER
MASS
152
AREA
5575
HEIGHT
2717
30-Aug-2022
15:50



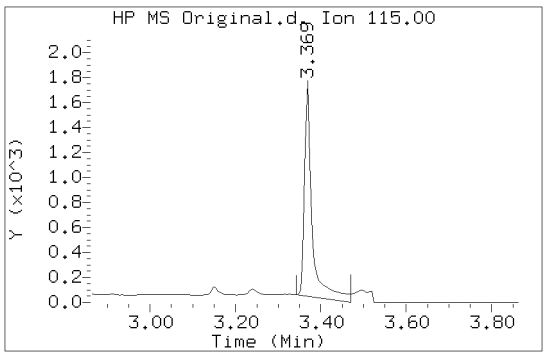
BEFORE
MASS
150
AREA
5517
HEIGHT
4604
27-Aug-2022
14:20
ALSHS
Server



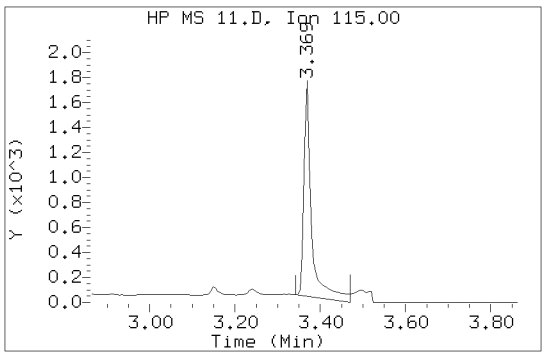
AFTER
MASS
150
AREA
5517
HEIGHT
4604
30-Aug-2022
15:50



BEFORE
MASS
115
AREA
2121
HEIGHT
1725
27-Aug-2022
14:20
ALSHS
Server



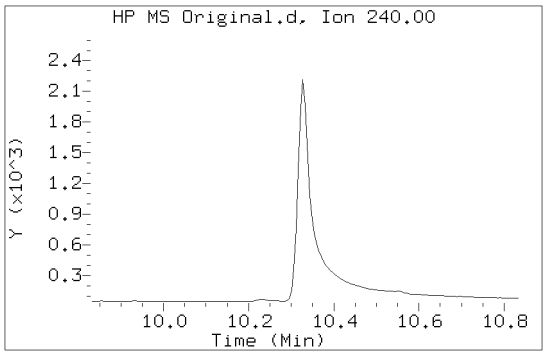
AFTER
MASS
115
AREA
2121
HEIGHT
1725
30-Aug-2022
15:50



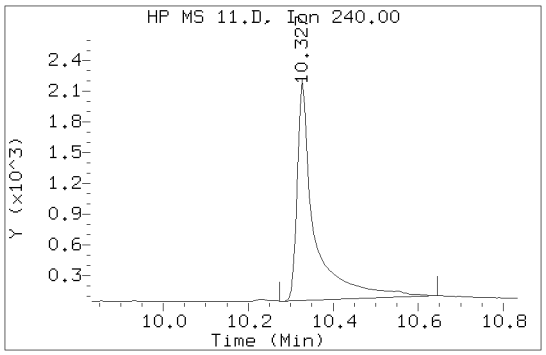
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
0
HEIGHT
0
27-Aug-2022
14:20
ALSHS
Server



AFTER
MASS
240
AREA
6055
HEIGHT
2156
30-Aug-2022
15:50

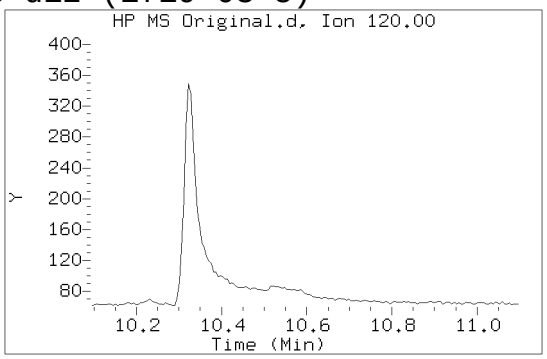


Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\11.D
Inj Date : 27-AUG-2022 14:05
InstruID : SV6.i
LabSampID : HS22080933-01

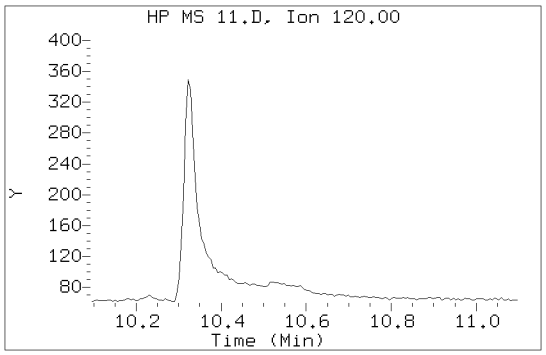
Chrysene-d12 (1719-03-5)

Reason Code:

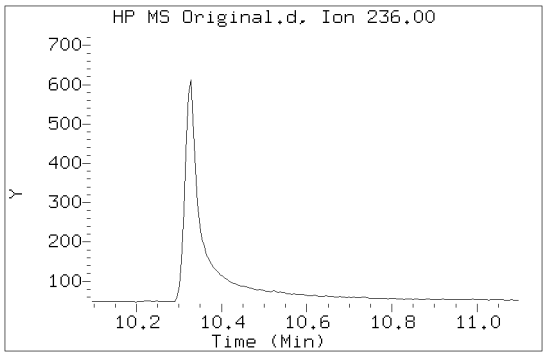
BEFORE
MASS
120
AREA
0
HEIGHT
0
27-Aug-2022
14:20
ALSHS
Server



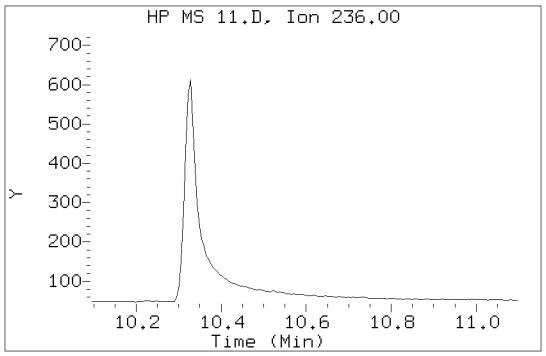
AFTER
MASS
120
AREA
0
HEIGHT
0
30-Aug-2022
15:50



BEFORE
MASS
236
AREA
0
HEIGHT
0
27-Aug-2022
14:20
ALSHS
Server



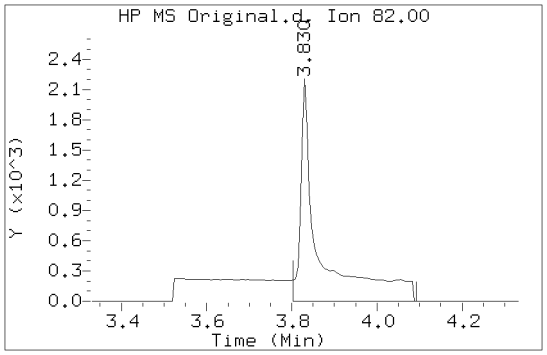
AFTER
MASS
236
AREA
0
HEIGHT
0
30-Aug-2022
15:50



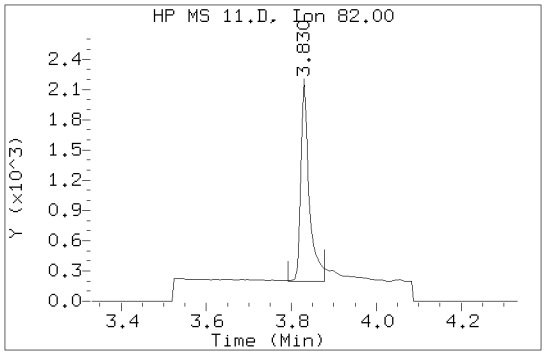
Nitrobenzene-d5 (4165-60-0)

Reason Code:

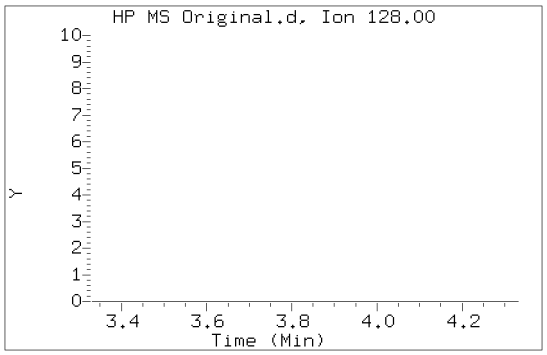
BEFORE
MASS
82
AREA
6514
HEIGHT
2205
27-Aug-2022
14:20
ALSHS
Server



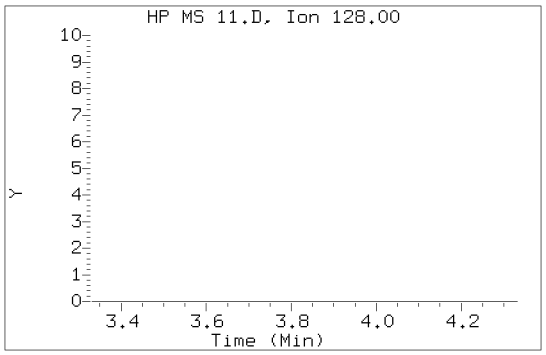
AFTER
MASS
82
AREA
2771
HEIGHT
2008
30-Aug-2022
15:50



BEFORE
MASS
128
AREA
0
HEIGHT
0
27-Aug-2022
14:20
ALSHS
Server



AFTER
MASS
128
AREA
0
HEIGHT
0
30-Aug-2022
15:50



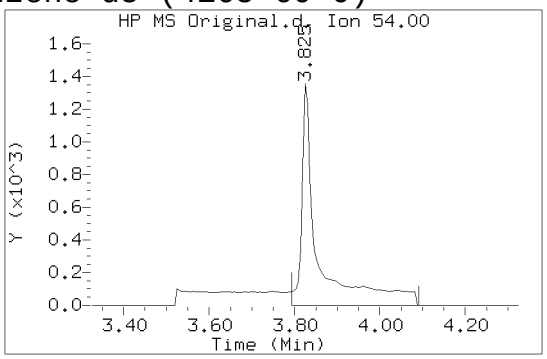
Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\11.D
Inj Date : 27-AUG-2022 14:05
InstruID : SV6.i
LabSampID : HS22080933-01

Nitrobenzene-d5 (4165-60-0)

Reason Code:

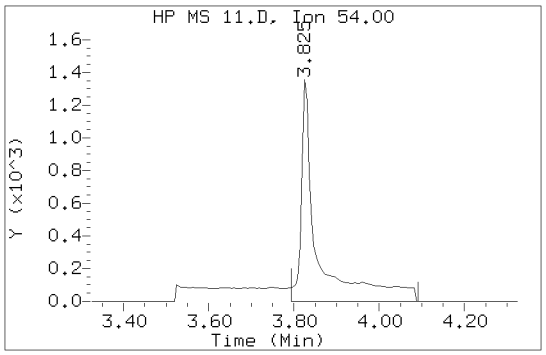
BEFORE

MASS
54
AREA
3521
HEIGHT
1356
27-Aug-2022
14:20
ALSHS
Server



AFTER

MASS
54
AREA
3521
HEIGHT
1356
30-Aug-2022
15:50

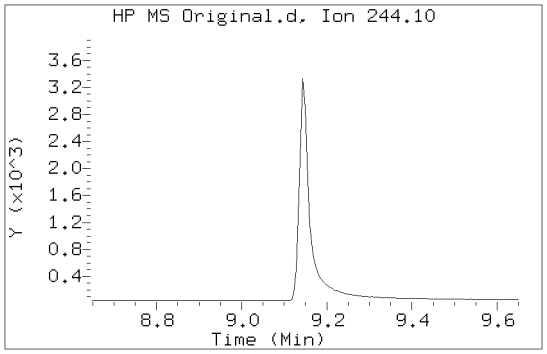


4-Terphenyl-d14 (1718-51-0)

Reason Code:

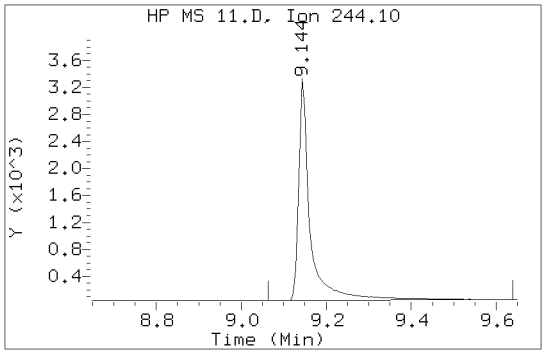
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
27-Aug-2022
14:20
ALSHS
Server



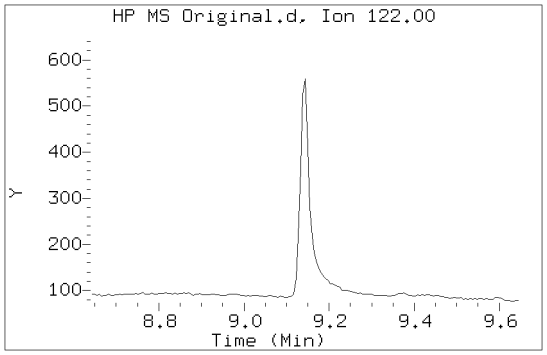
AFTER

MASS
244.1
AREA
6142
HEIGHT
3279
30-Aug-2022
15:50



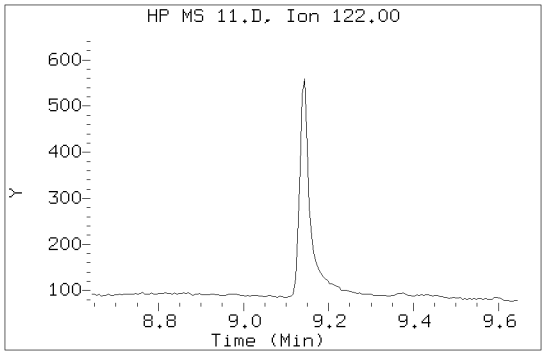
BEFORE

MASS
122
AREA
0
HEIGHT
0
27-Aug-2022
14:20
ALSHS
Server



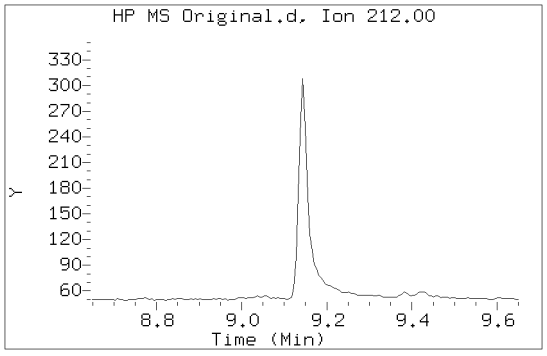
AFTER

MASS
122
AREA
0
HEIGHT
0
30-Aug-2022
15:50



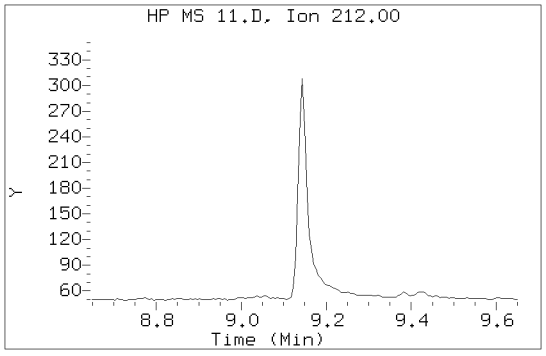
BEFORE

MASS
212
AREA
0
HEIGHT
0
27-Aug-2022
14:20
ALSHS
Server



AFTER

MASS
212
AREA
0
HEIGHT
0
30-Aug-2022
15:50



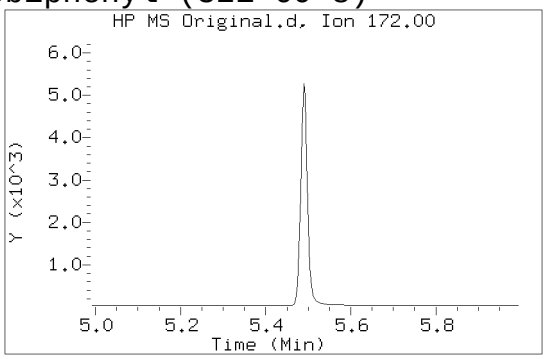
Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\11.D
Inj Date : 27-AUG-2022 14:05
InstruID : SV6.i
LabSampID : HS22080933-01

2-Fluorobiphenyl (321-60-8)

Reason Code:

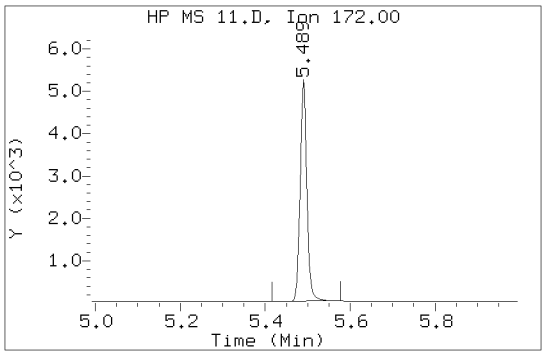
BEFORE

MASS
172
AREA
0
HEIGHT
0
27-Aug-2022
14:20
ALSHS
Server



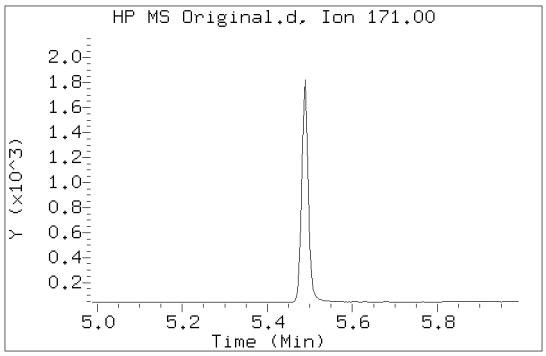
AFTER

MASS
172
AREA
5791
HEIGHT
5223
30-Aug-2022
15:50



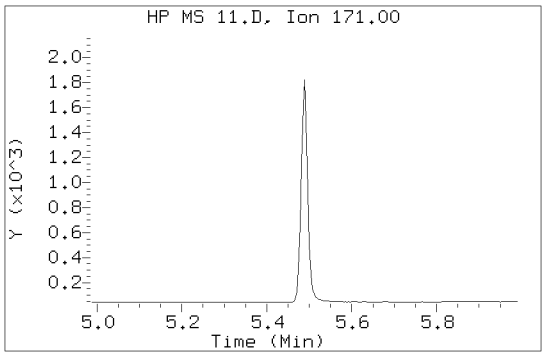
BEFORE

MASS
171
AREA
0
HEIGHT
0
27-Aug-2022
14:20
ALSHS
Server



AFTER

MASS
171
AREA
0
HEIGHT
0
30-Aug-2022
15:50



Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\12.D Page 1
Report Date: 30-Aug-2022 15:58

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220827.b\12.D
Lab Smp Id: HS22080933-02
Inj Date : 27-AUG-2022 14:23
Operator : LG Inst ID: SV6.i
Smp Info : HS22080933-02
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\220827.b\DXSIM.m
Meth Date : 29-Aug-2022 09:27 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 12:56 Cal File: 009.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	3.368	3.368	(1.000)	5313	0.10000	(aM)
* 45 Naphthalene-d8	136	4.471	4.471	(1.000)	10117	0.10000	
$ 33 Nitrobenzene-d5	82	3.830	3.830	(0.857)	2657	0.07879	0.07879(M)
* 86 Acenaphthene-d10	164	6.138	6.138	(1.000)	5430	0.10000	(Q)
$ 69 2-Fluorobiphenyl	172	5.492	5.492	(0.895)	5137	0.06078	0.06078
* 126 Phenanthrene-d10	188	7.578	7.578	(1.000)	9958	0.10000	
* 182 Chrysene-d12	240	10.327	10.332	(1.000)	4904	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.143	9.148	(0.885)	4669	0.05064	0.05064(M)
* 198 Perylene-d12	264	12.319	12.319	(1.000)	3599	0.10000	
1 1,4-Dioxane	58	1.663	1.670	(0.494)	66119	30.3139	30.31(AQ)

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.

01141539

Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\12.D

Date : 27-AUG-2022 14:23

Client ID:

Instrument: SV6.i

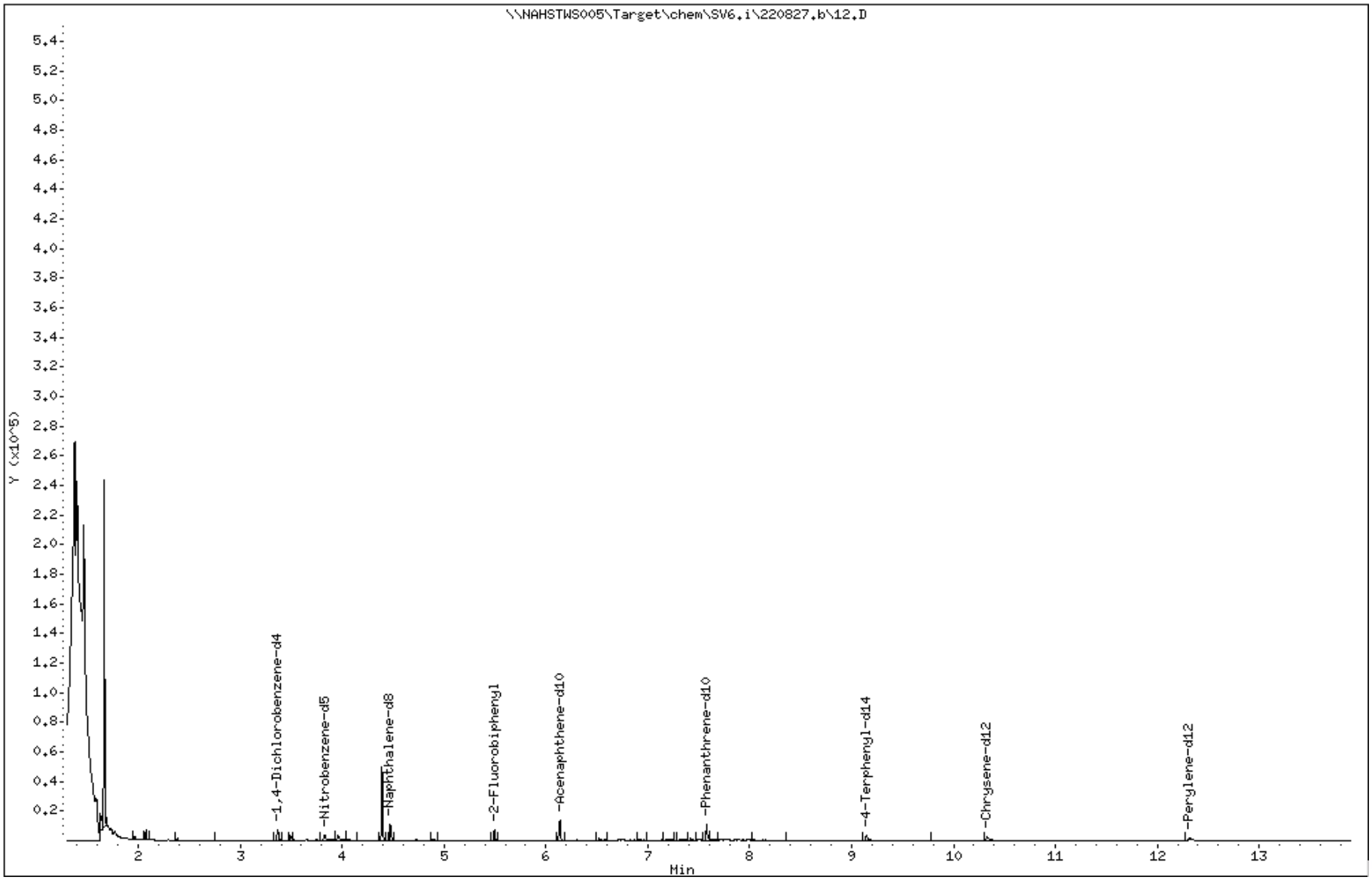
Sample Info: HS22080933-02

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\12.D

Date : 27-AUG-2022 14:23

Client ID:

Instrument: SV6.i

Sample Info: HS22080933-02

Purge Volume: 1000.0

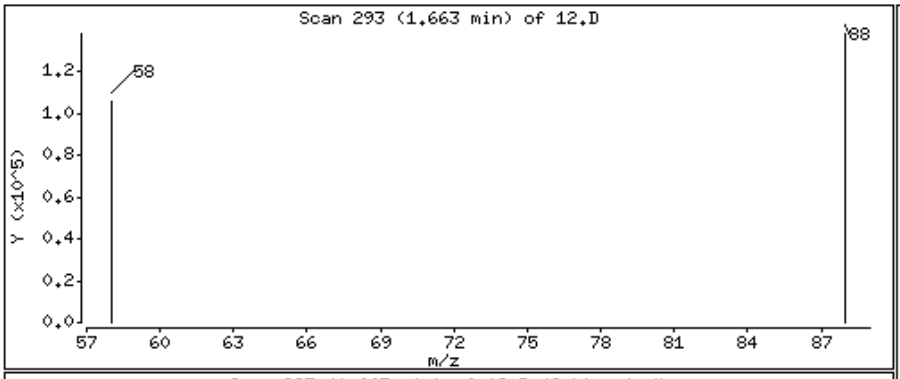
Operator: LG

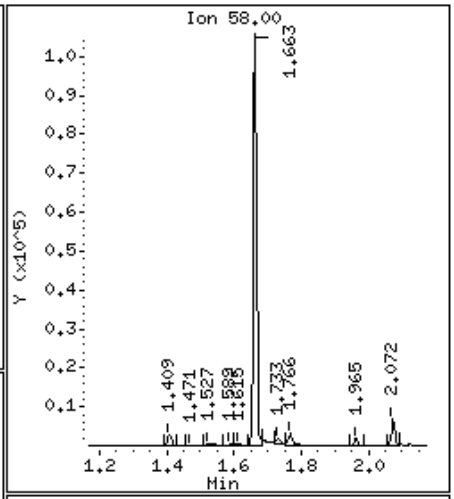
Column phase: RTX-5SIL MS

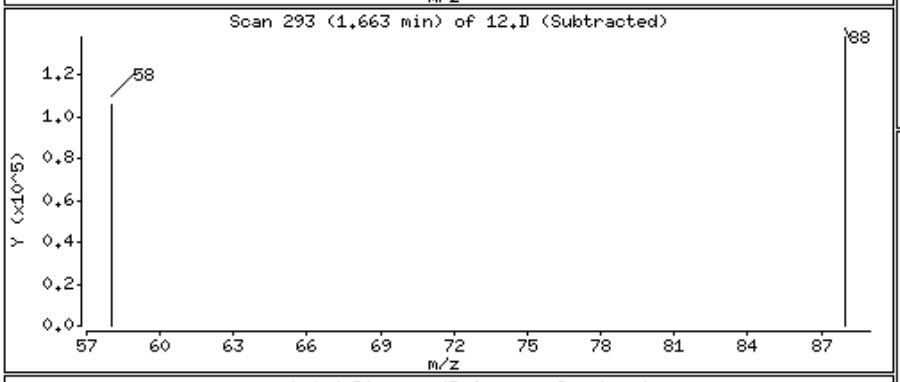
Column diameter: 0.28

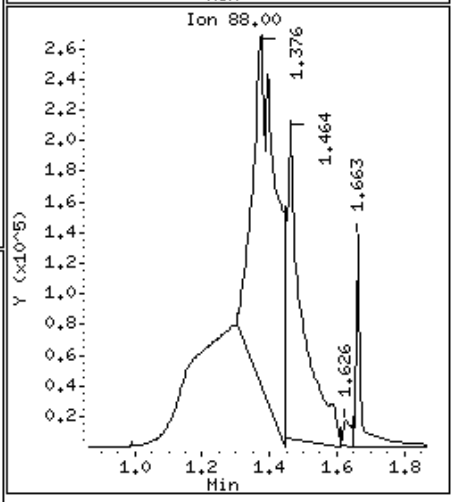
1 1,4-Dioxane

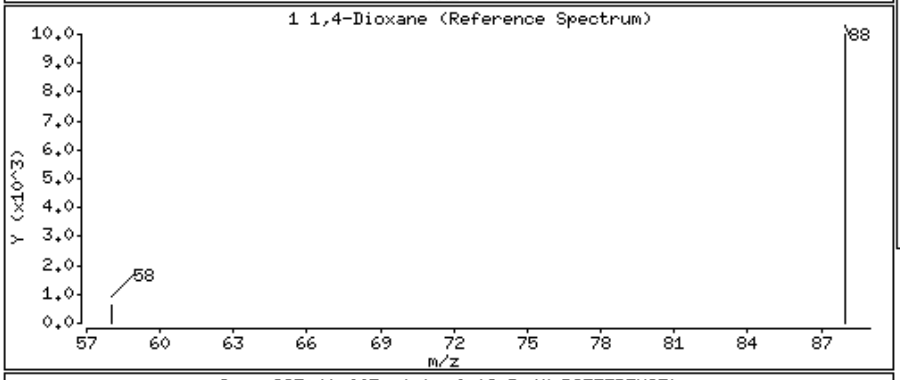
Concentration: 30.31 ug/L

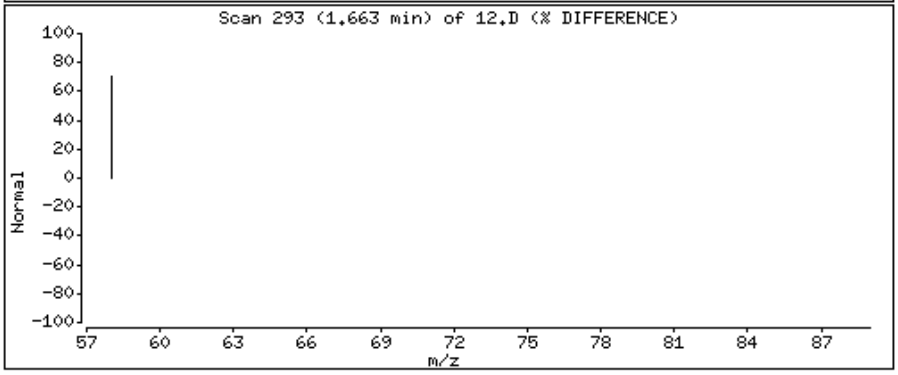












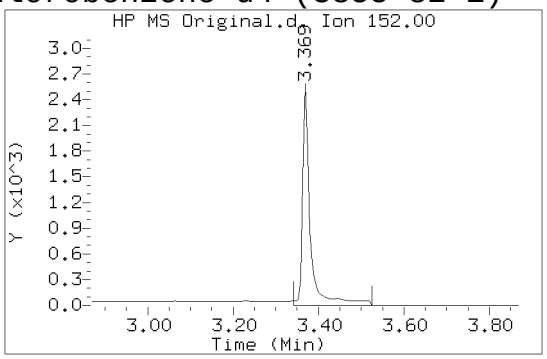
Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\12.D
Inj Date : 27-AUG-2022 14:23
InstruID : SV6.i
LabSampID : HS22080933-02

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

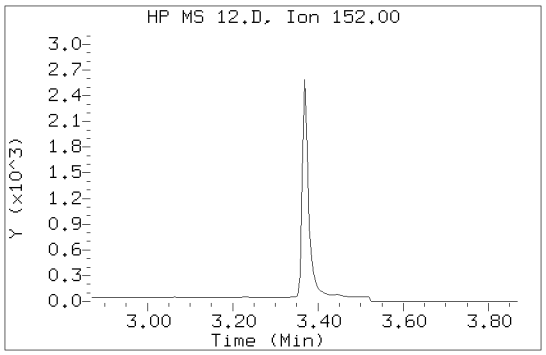
BEFORE

MASS
152
AREA
3166
HEIGHT
2587
27-Aug-2022
14:39
ALSHS
Server



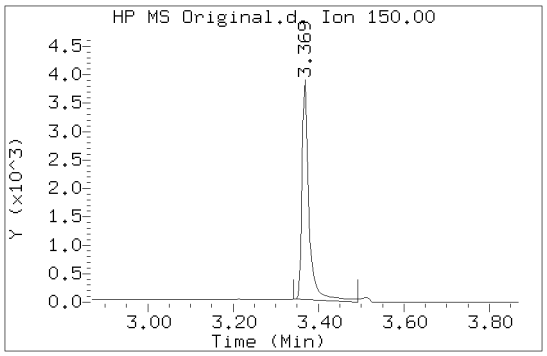
AFTER

MASS
152
AREA
5313
HEIGHT
2587
30-Aug-2022
15:58



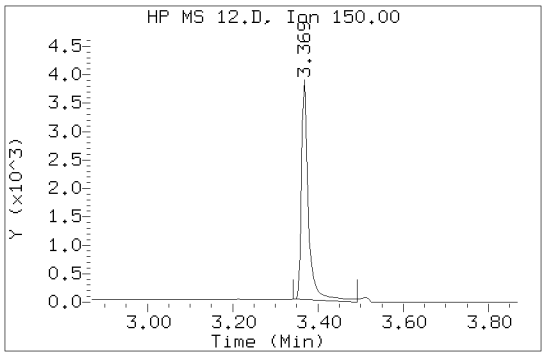
BEFORE

MASS
150
AREA
4375
HEIGHT
3867
27-Aug-2022
14:39
ALSHS
Server



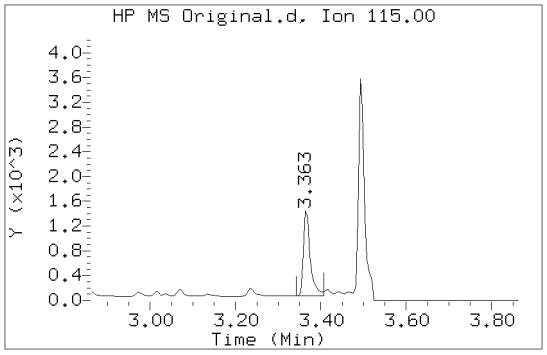
AFTER

MASS
150
AREA
4375
HEIGHT
3867
30-Aug-2022
15:58



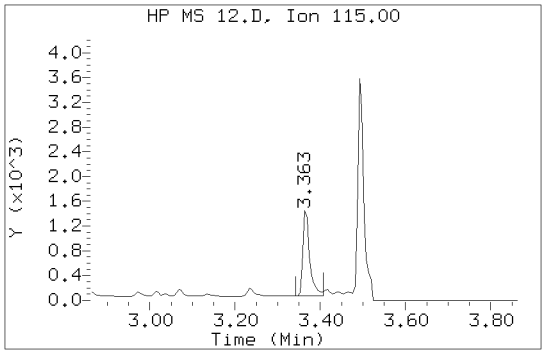
BEFORE

MASS
115
AREA
1528
HEIGHT
1377
27-Aug-2022
14:39
ALSHS
Server



AFTER

MASS
115
AREA
1528
HEIGHT
1377
30-Aug-2022
15:58

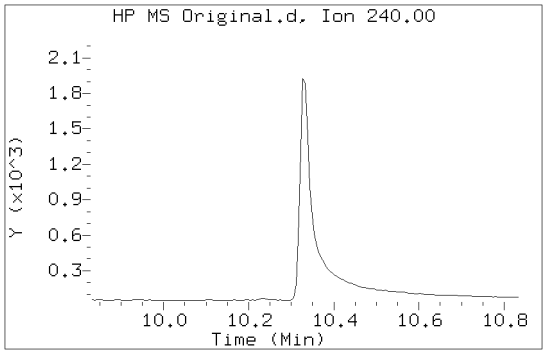


Chrysene-d12 (1719-03-5)

Reason Code:

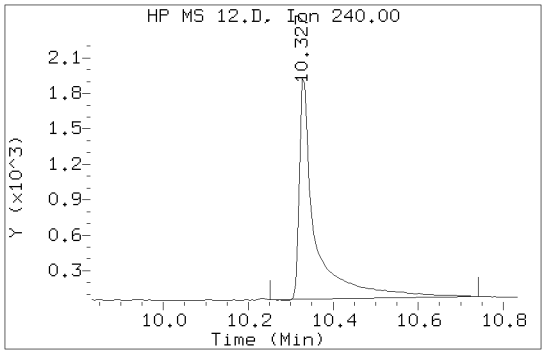
BEFORE

MASS
240
AREA
0
HEIGHT
0
27-Aug-2022
14:39
ALSHS
Server



AFTER

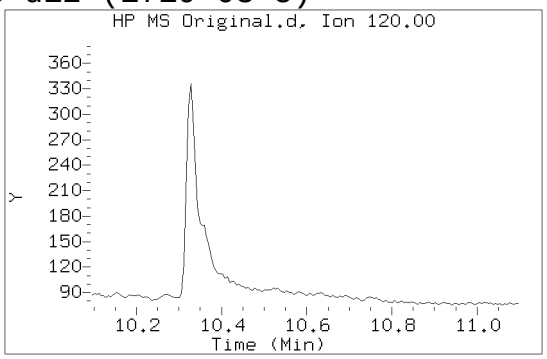
MASS
240
AREA
4904
HEIGHT
1865
30-Aug-2022
15:58



Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\12.D
Inj Date : 27-AUG-2022 14:23
InstruID : SV6.i
LabSampID : HS22080933-02

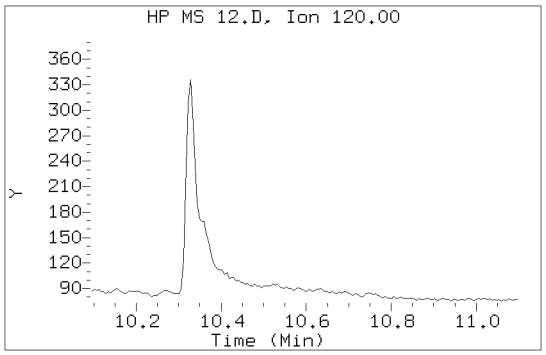
Chrysene-d12 (1719-03-5)

BEFORE
MASS
120
AREA
0
HEIGHT
0
27-Aug-2022
14:39
ALSHS
Server

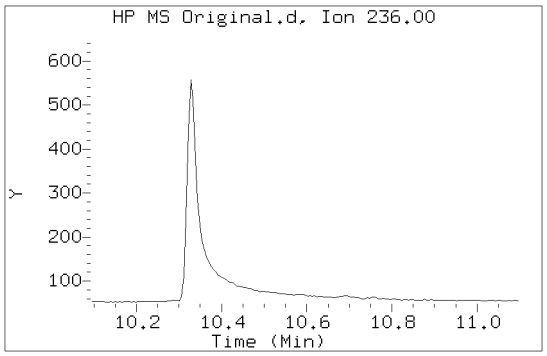


Reason Code:

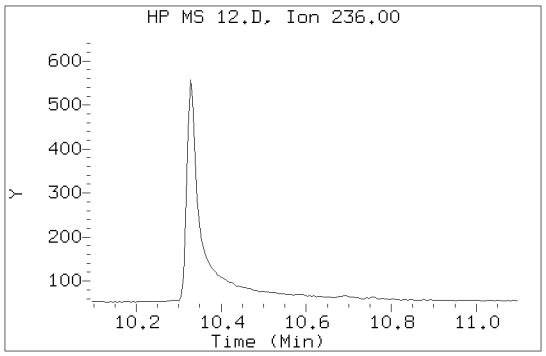
AFTER
MASS
120
AREA
0
HEIGHT
0
30-Aug-2022
15:58



BEFORE
MASS
236
AREA
0
HEIGHT
0
27-Aug-2022
14:39
ALSHS
Server

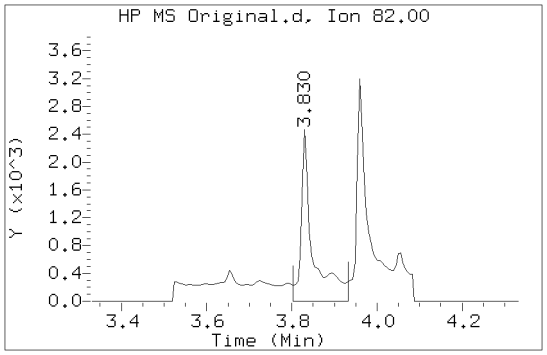


AFTER
MASS
236
AREA
0
HEIGHT
0
30-Aug-2022
15:58



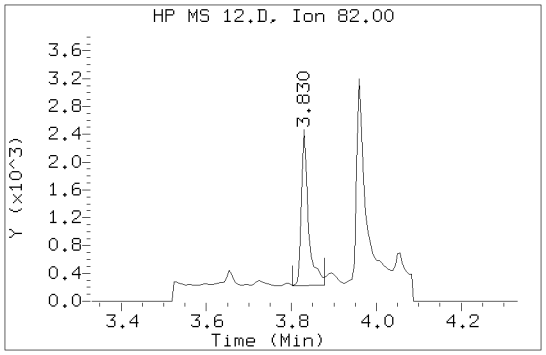
Nitrobenzene-d5 (4165-60-0)

BEFORE
MASS
82
AREA
4793
HEIGHT
2467
27-Aug-2022
14:39
ALSHS
Server

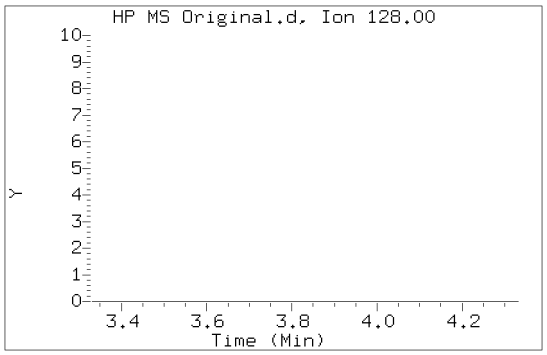


Reason Code:

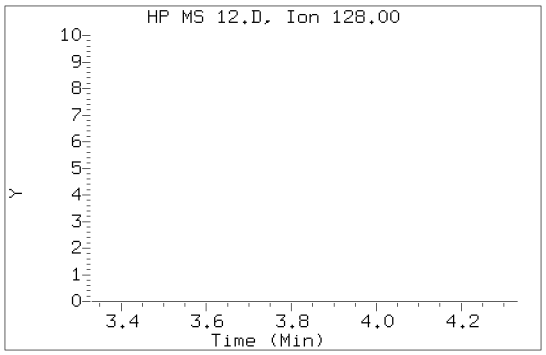
AFTER
MASS
82
AREA
2657
HEIGHT
2243
30-Aug-2022
15:58



BEFORE
MASS
128
AREA
0
HEIGHT
0
27-Aug-2022
14:39
ALSHS
Server



AFTER
MASS
128
AREA
0
HEIGHT
0
30-Aug-2022
15:58



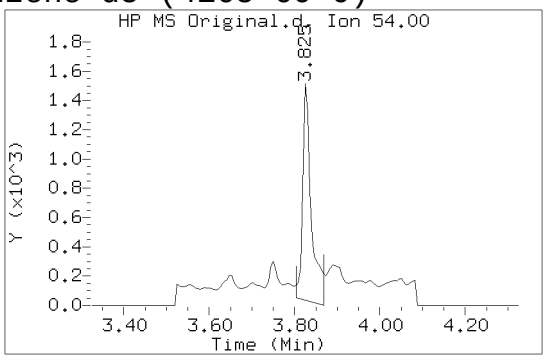
Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\12.D
Inj Date : 27-AUG-2022 14:23
InstruID : SV6.i
LabSampID : HS22080933-02

Nitrobenzene-d5 (4165-60-0)

Reason Code:

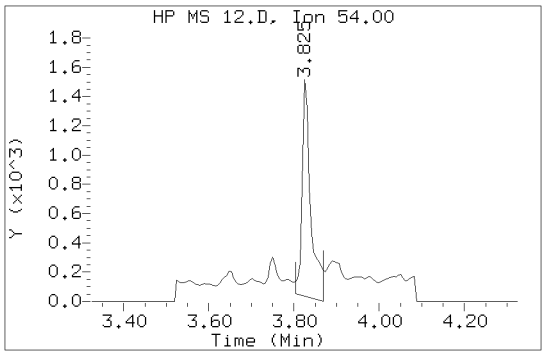
BEFORE

MASS
54
AREA
2079
HEIGHT
1479
27-Aug-2022
14:39
ALSHS
Server



AFTER

MASS
54
AREA
2079
HEIGHT
1479
30-Aug-2022
15:58

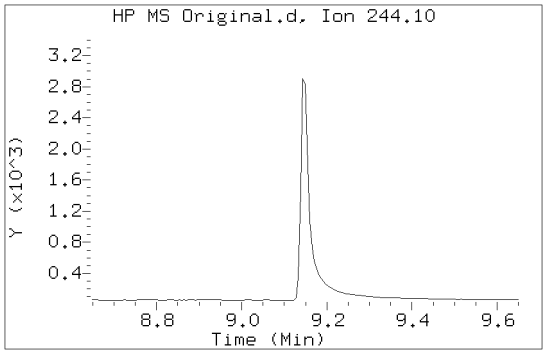


4-Terphenyl-d14 (1718-51-0)

Reason Code:

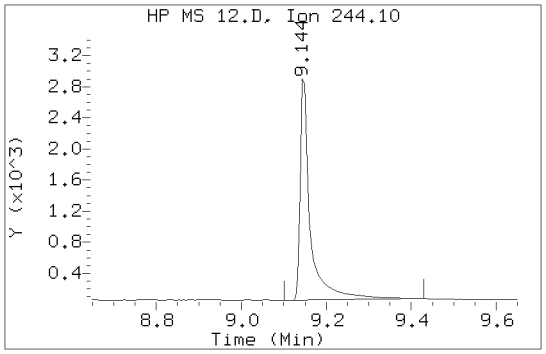
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
27-Aug-2022
14:39
ALSHS
Server



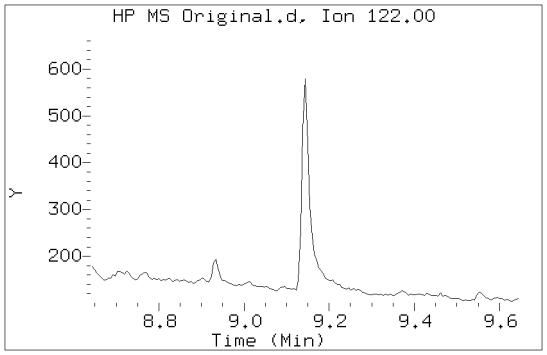
AFTER

MASS
244.1
AREA
4669
HEIGHT
2843
30-Aug-2022
15:58



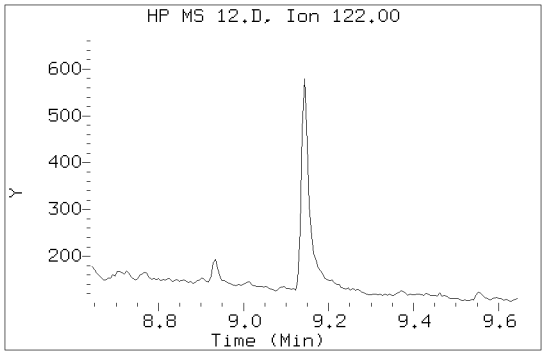
BEFORE

MASS
122
AREA
0
HEIGHT
0
27-Aug-2022
14:39
ALSHS
Server



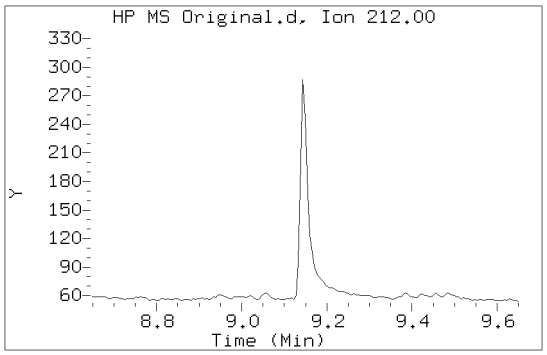
AFTER

MASS
122
AREA
0
HEIGHT
0
30-Aug-2022
15:58



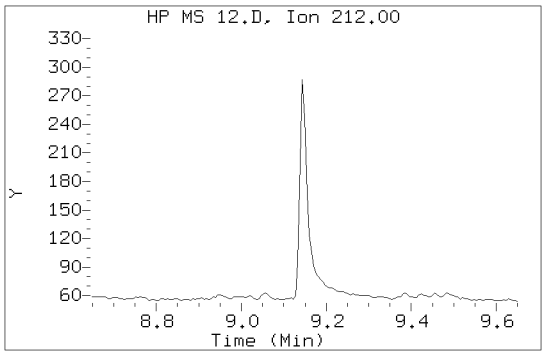
BEFORE

MASS
212
AREA
0
HEIGHT
0
27-Aug-2022
14:39
ALSHS
Server



AFTER

MASS
212
AREA
0
HEIGHT
0
30-Aug-2022
15:58



Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\13.D Page 1
Report Date: 30-Aug-2022 15:59

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220827.b\13.D
Lab Smp Id: HS22080933-03
Inj Date : 27-AUG-2022 14:41
Operator : LG Inst ID: SV6.i
Smp Info : HS22080933-03
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\220827.b\DXSIM.m
Meth Date : 29-Aug-2022 09:27 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 12:56 Cal File: 009.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	3.368	3.368	(1.000)	5945	0.10000	(aM)
* 45 Naphthalene-d8	136	4.471	4.471	(1.000)	10325	0.10000	
$ 33 Nitrobenzene-d5	82	3.830	3.830	(0.857)	2490	0.07235	0.07235(M)
* 86 Acenaphthene-d10	164	6.138	6.138	(1.000)	5573	0.10000	(Q)
$ 69 2-Fluorobiphenyl	172	5.492	5.492	(0.895)	4968	0.05727	0.05727
* 126 Phenanthrene-d10	188	7.578	7.578	(1.000)	10046	0.10000	
* 182 Chrysene-d12	240	10.332	10.332	(1.000)	5732	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.143	9.148	(0.885)	4749	0.04407	0.04407(M)
* 198 Perylene-d12	264	12.319	12.319	(1.000)	4581	0.10000	
1 1,4-Dioxane	58	1.674	1.670	(0.497)	62751	25.7113	25.71(AQ)

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.

01141546

Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\13.D

Date : 27-AUG-2022 14:41

Client ID:

Instrument: SV6.i

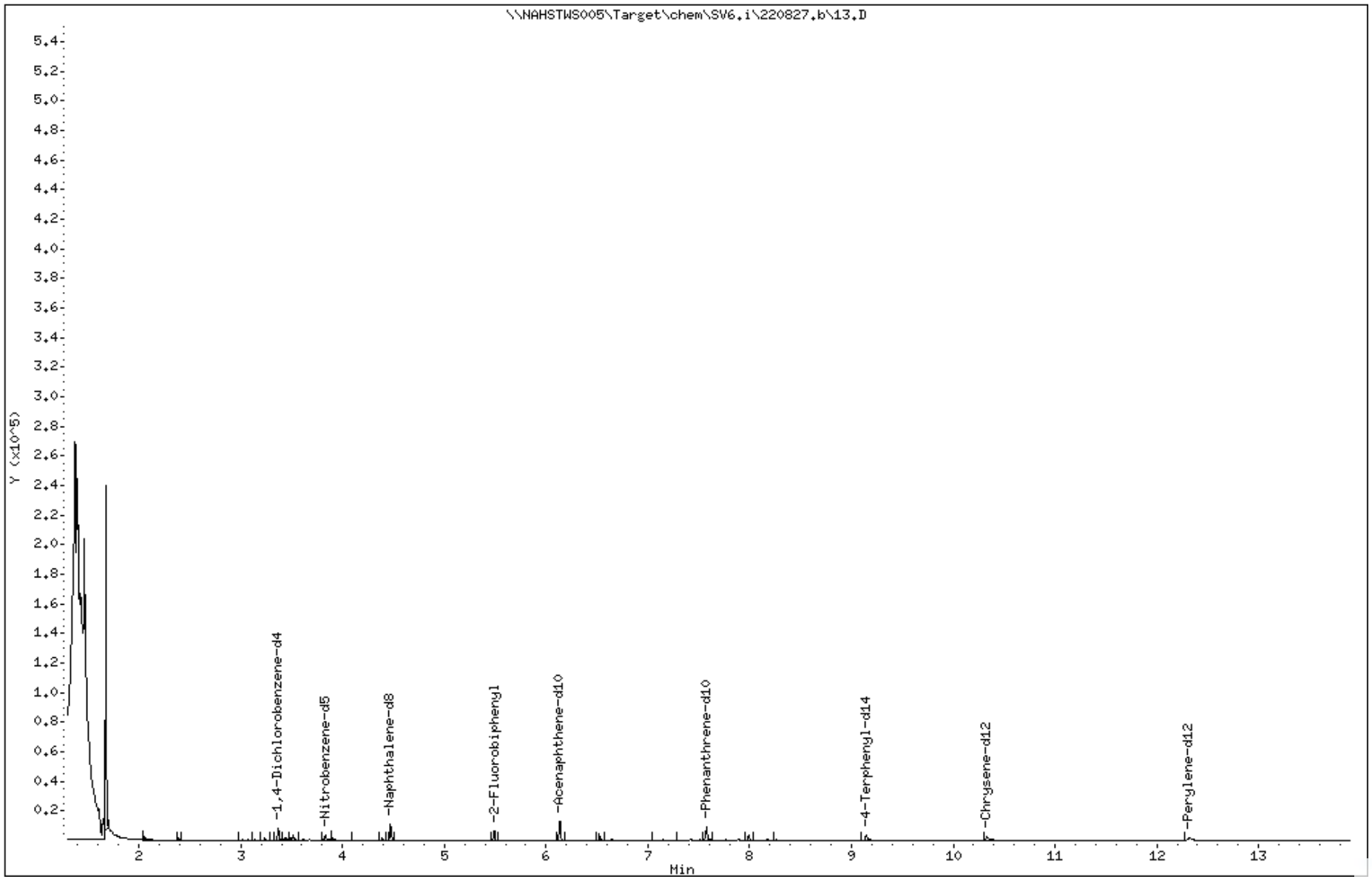
Sample Info: HS22080933-03

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\13.D

Date : 27-AUG-2022 14:41

Client ID:

Instrument: SV6.i

Sample Info: HS22080933-03

Purge Volume: 1000.0

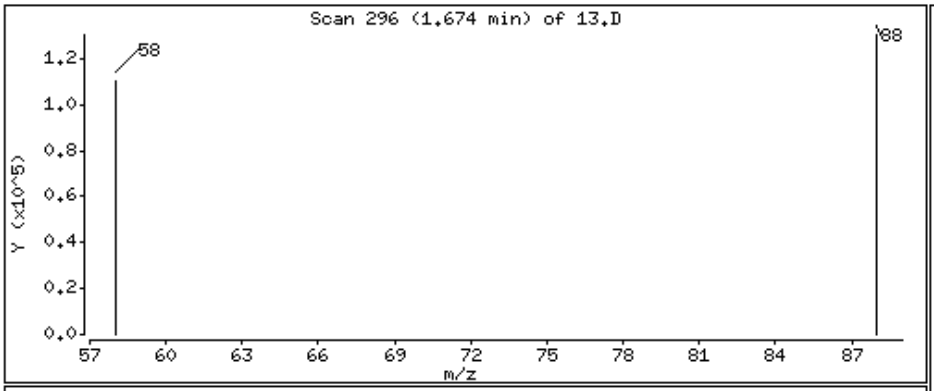
Operator: LG

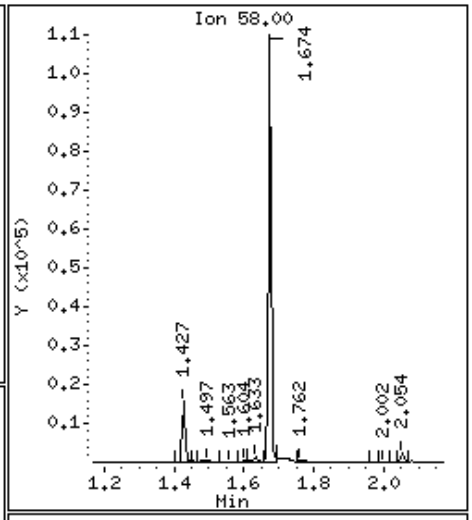
Column phase: RTX-5SIL MS

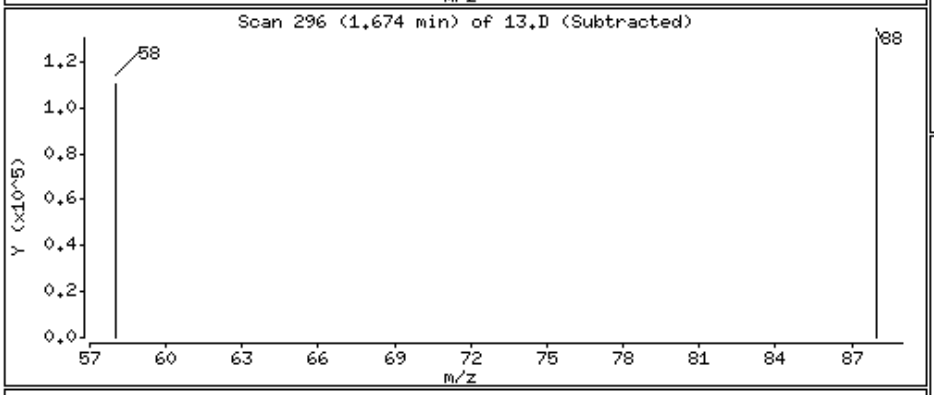
Column diameter: 0.28

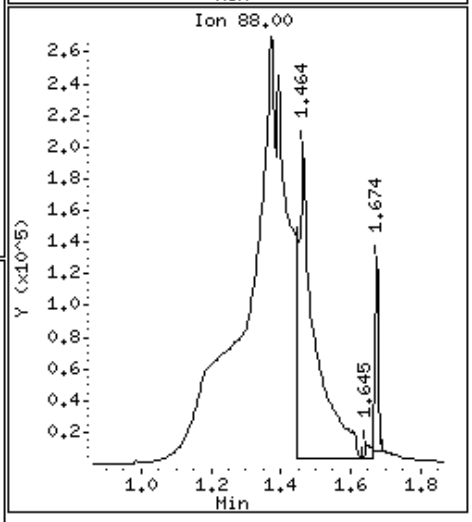
1 1,4-Dioxane

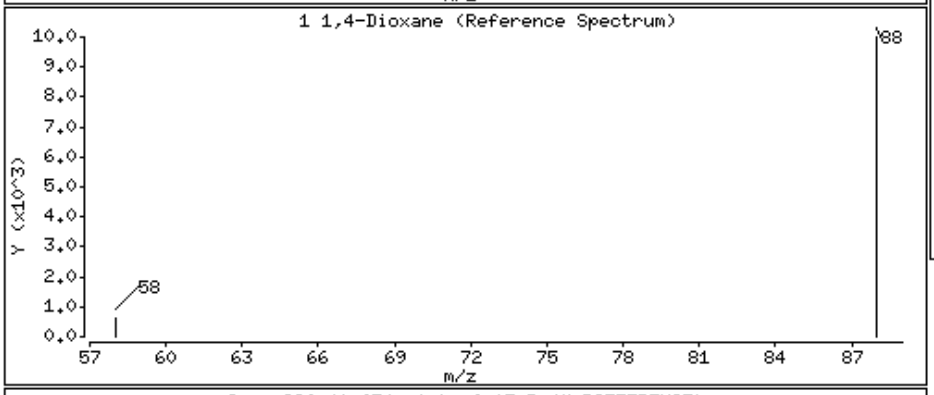
Concentration: 25.71 ug/L

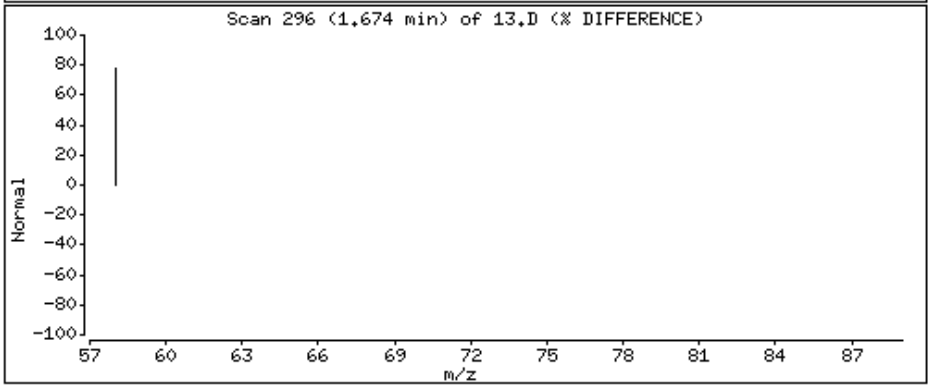












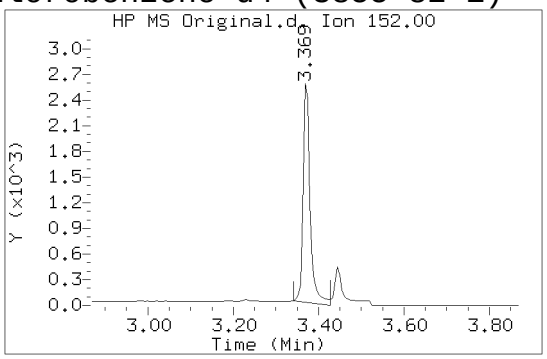
Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\13.D
Inj Date : 27-AUG-2022 14:41
InstruID : SV6.i
LabSampID : HS22080933-03

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

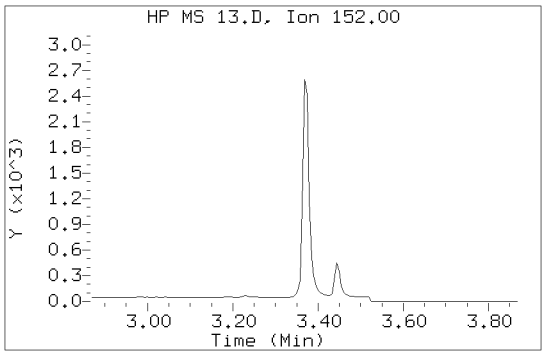
BEFORE

MASS
152
AREA
2846
HEIGHT
2553
27-Aug-2022
14:56
ALSHS
Server



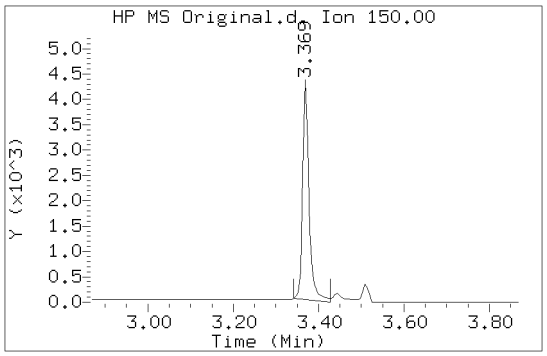
AFTER

MASS
152
AREA
5945
HEIGHT
2592
30-Aug-2022
15:59



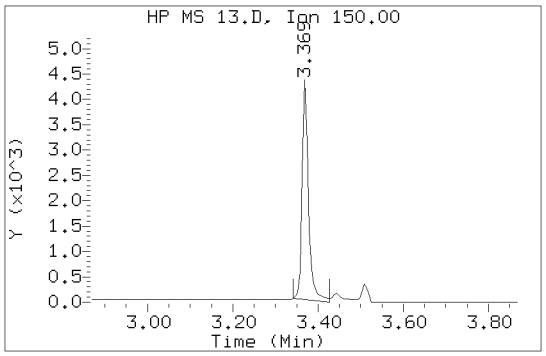
BEFORE

MASS
150
AREA
4427
HEIGHT
4335
27-Aug-2022
14:56
ALSHS
Server



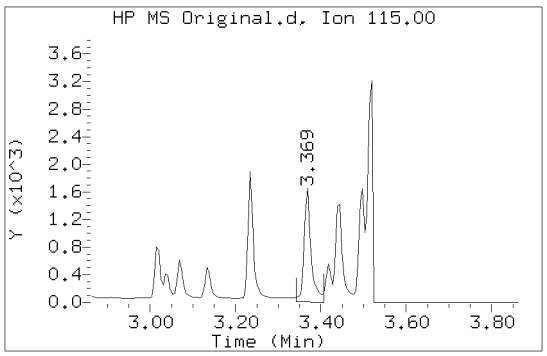
AFTER

MASS
150
AREA
4427
HEIGHT
4335
30-Aug-2022
15:59



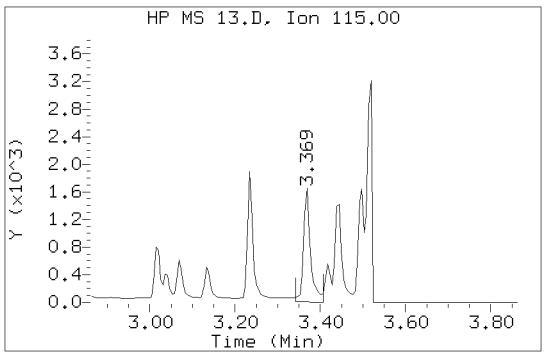
BEFORE

MASS
115
AREA
1899
HEIGHT
1645
27-Aug-2022
14:56
ALSHS
Server



AFTER

MASS
115
AREA
1899
HEIGHT
1645
30-Aug-2022
15:59

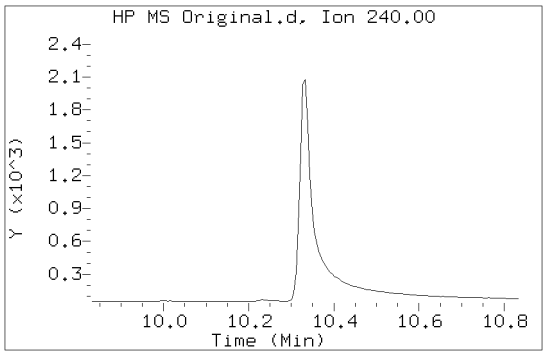


Chrysene-d12 (1719-03-5)

Reason Code:

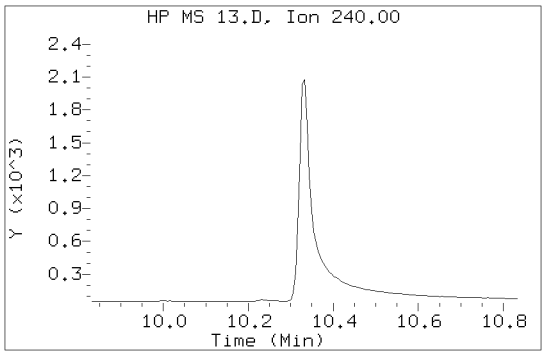
BEFORE

MASS
240
AREA
0
HEIGHT
0
27-Aug-2022
14:56
ALSHS
Server



AFTER

MASS
240
AREA
5732
HEIGHT
2017
30-Aug-2022
15:59

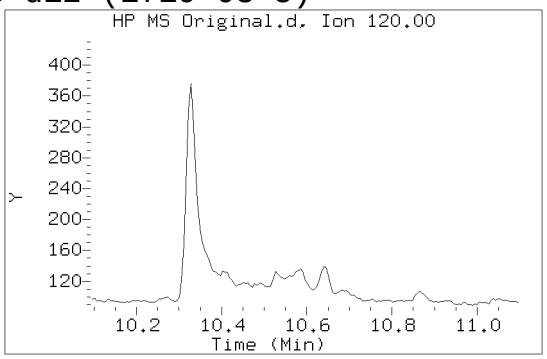


Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\13.D
Inj Date : 27-AUG-2022 14:41
InstruID : SV6.i
LabSampID : HS22080933-03

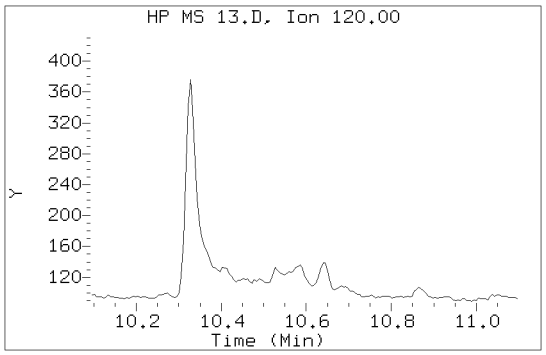
Chrysene-d12 (1719-03-5)

Reason Code:

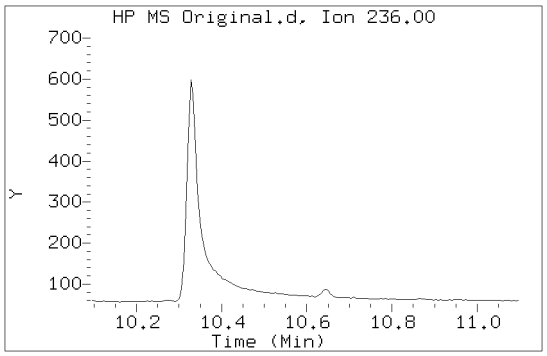
BEFORE
MASS
120
AREA
0
HEIGHT
0
27-Aug-2022
14:56
ALSHS
Server



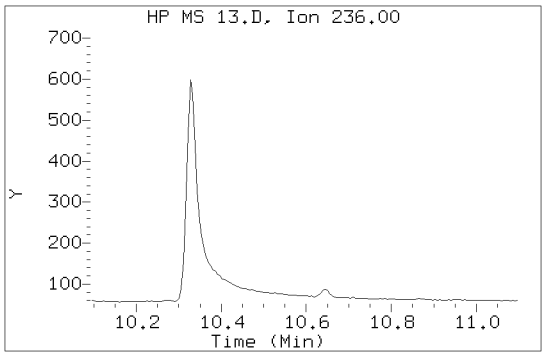
AFTER
MASS
120
AREA
0
HEIGHT
0
30-Aug-2022
15:59



BEFORE
MASS
236
AREA
0
HEIGHT
0
27-Aug-2022
14:56
ALSHS
Server



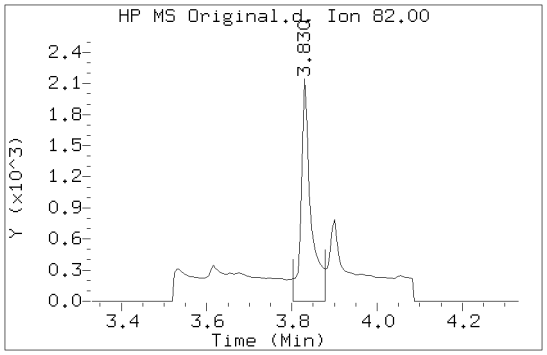
AFTER
MASS
236
AREA
0
HEIGHT
0
30-Aug-2022
15:59



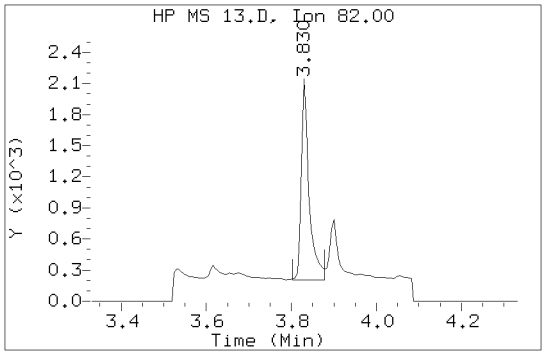
Nitrobenzene-d5 (4165-60-0)

Reason Code:

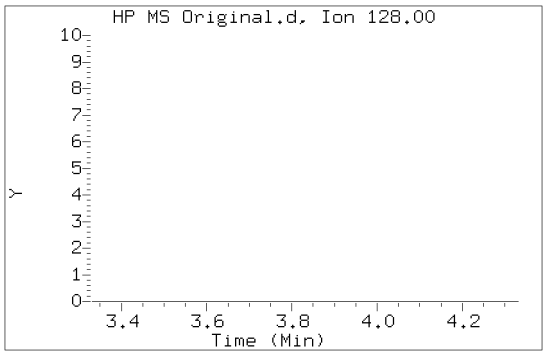
BEFORE
MASS
82
AREA
3490
HEIGHT
2144
27-Aug-2022
14:56
ALSHS
Server



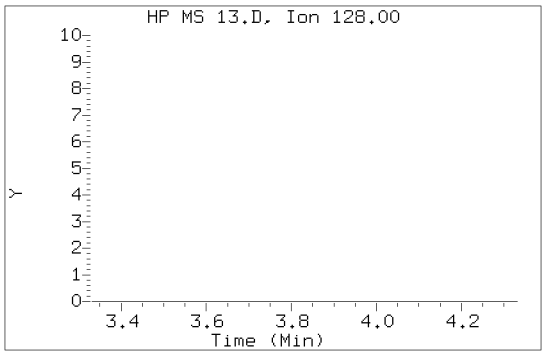
AFTER
MASS
82
AREA
2490
HEIGHT
1937
30-Aug-2022
15:59



BEFORE
MASS
128
AREA
0
HEIGHT
0
27-Aug-2022
14:56
ALSHS
Server



AFTER
MASS
128
AREA
0
HEIGHT
0
30-Aug-2022
15:59



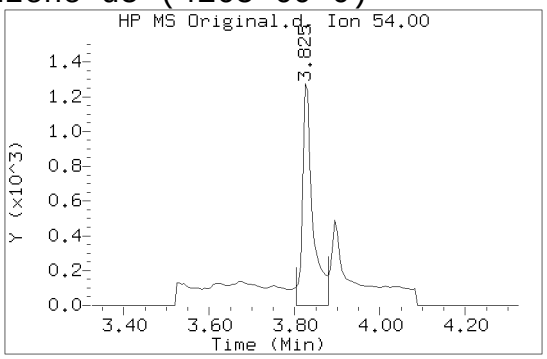
Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\13.D
Inj Date : 27-AUG-2022 14:41
InstruID : SV6.i
LabSampID : HS22080933-03

Nitrobenzene-d5 (4165-60-0)

Reason Code:

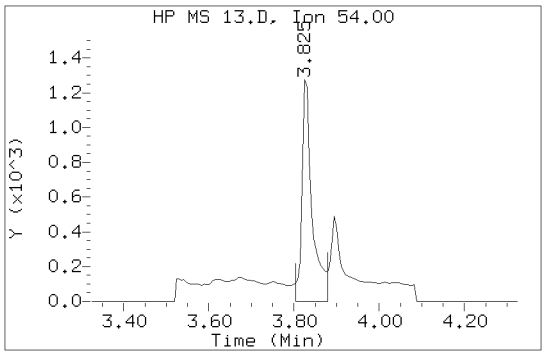
BEFORE

MASS
54
AREA
2126
HEIGHT
1275
27-Aug-2022
14:56
ALSHS
Server



AFTER

MASS
54
AREA
2126
HEIGHT
1275
30-Aug-2022
15:59

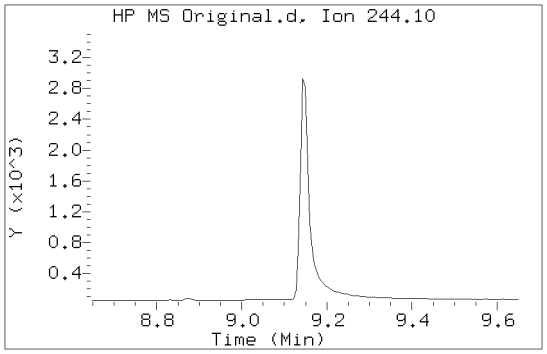


4-Terphenyl-d14 (1718-51-0)

Reason Code:

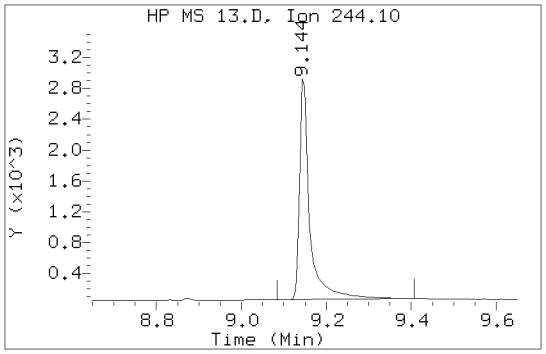
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
27-Aug-2022
14:56
ALSHS
Server



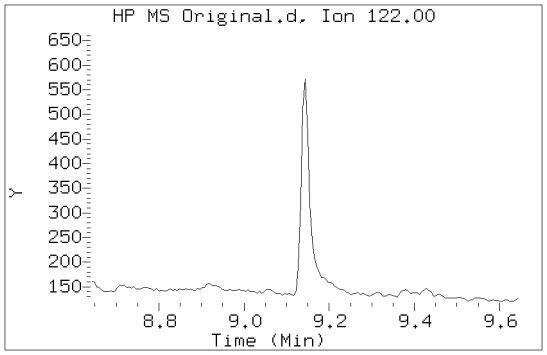
AFTER

MASS
244.1
AREA
4749
HEIGHT
2863
30-Aug-2022
15:59



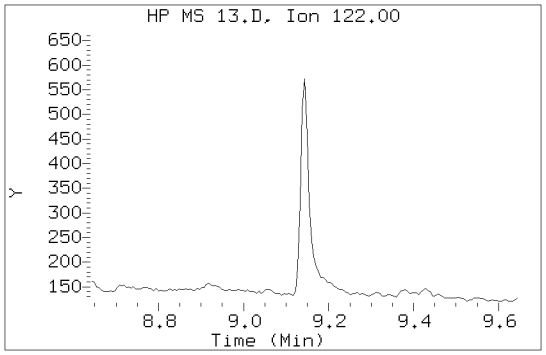
BEFORE

MASS
122
AREA
0
HEIGHT
0
27-Aug-2022
14:56
ALSHS
Server



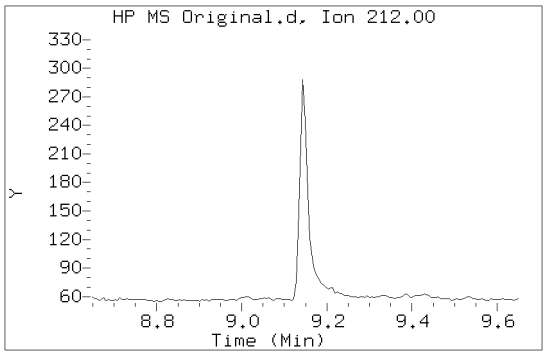
AFTER

MASS
122
AREA
0
HEIGHT
0
30-Aug-2022
15:59



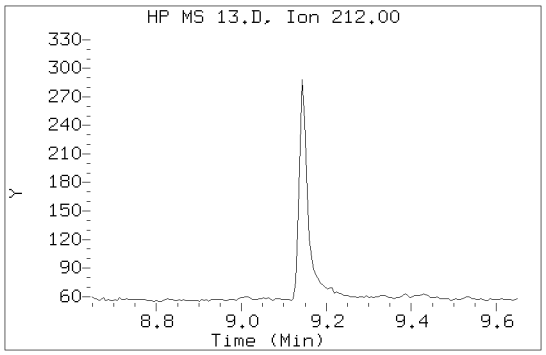
BEFORE

MASS
212
AREA
0
HEIGHT
0
27-Aug-2022
14:56
ALSHS
Server



AFTER

MASS
212
AREA
0
HEIGHT
0
30-Aug-2022
15:59



Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\14.D Page 1
Report Date: 30-Aug-2022 16:00

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220827.b\14.D
Lab Smp Id: HS22080933-04
Inj Date : 27-AUG-2022 14:59
Operator : LG Inst ID: SV6.i
Smp Info : HS22080933-04
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\220827.b\DXSIM.m
Meth Date : 29-Aug-2022 09:27 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 12:56 Cal File: 009.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	3.368	3.368	(1.000)	4278	0.10000	(aM)
* 45 Naphthalene-d8	136	4.471	4.471	(1.000)	8535	0.10000	
$ 33 Nitrobenzene-d5	82	3.830	3.830	(0.857)	1583	0.05564	0.05564(M)
* 86 Acenaphthene-d10	164	6.138	6.138	(1.000)	6465	0.10000	
$ 69 2-Fluorobiphenyl	172	5.492	5.492	(0.895)	3399	0.03378	0.03378(M)
* 126 Phenanthrene-d10	188	7.578	7.578	(1.000)	8700	0.10000	(M)
* 182 Chrysene-d12	240	10.332	10.332	(1.000)	3909	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.149	9.148	(0.885)	3411	0.04641	0.04641(M)
* 198 Perylene-d12	264	12.319	12.319	(1.000)	3050	0.10000	
1 1,4-Dioxane	58	1.648	1.670	(0.489)	336290	191.482	191.5(AQ)

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.

01141553

Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\14.D

Date : 27-AUG-2022 14:59

Client ID:

Instrument: SV6.i

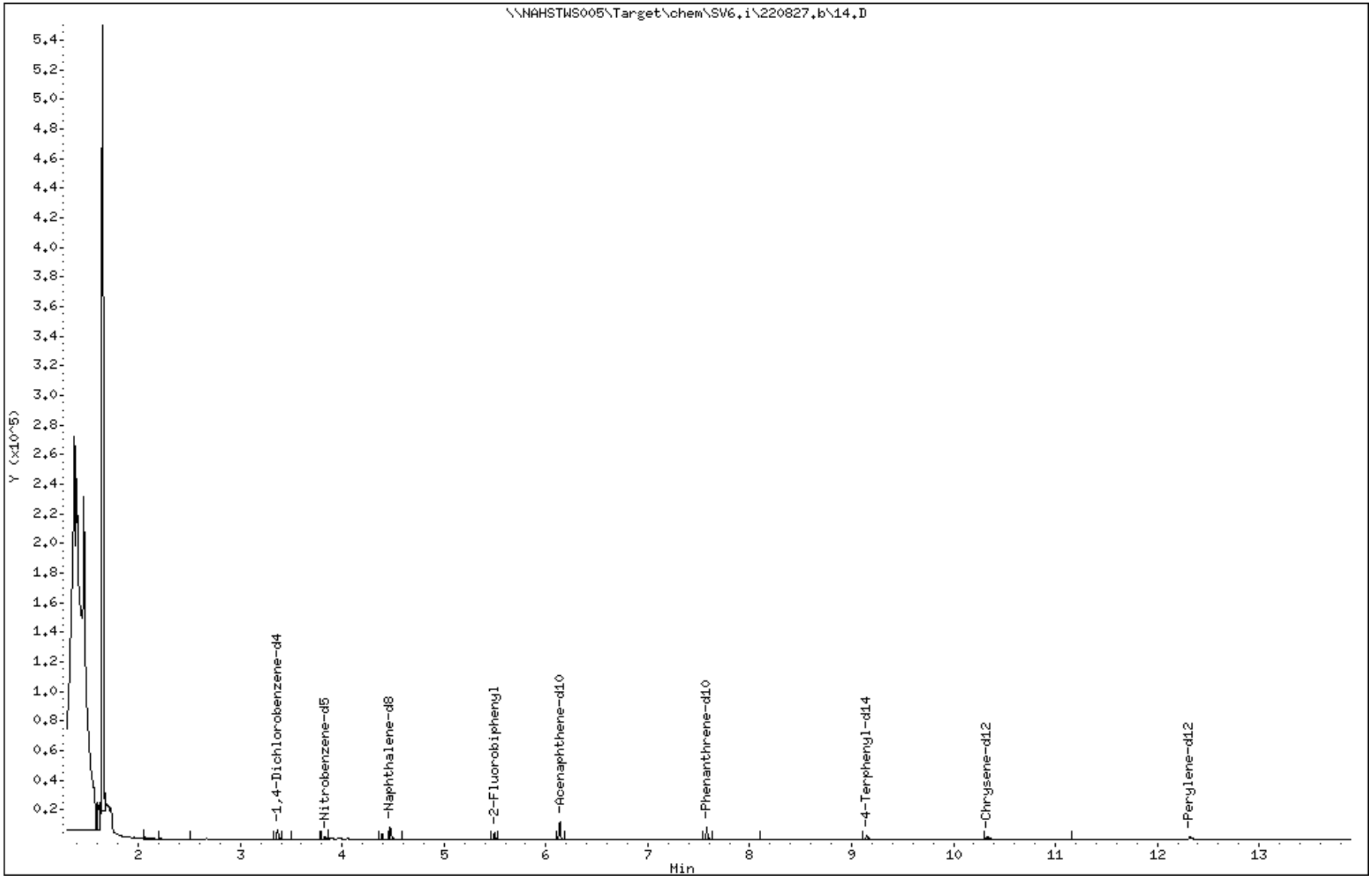
Sample Info: HS22080933-04

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\14.D

Date : 27-AUG-2022 14:59

Client ID:

Instrument: SV6.i

Sample Info: HS22080933-04

Purge Volume: 1000.0

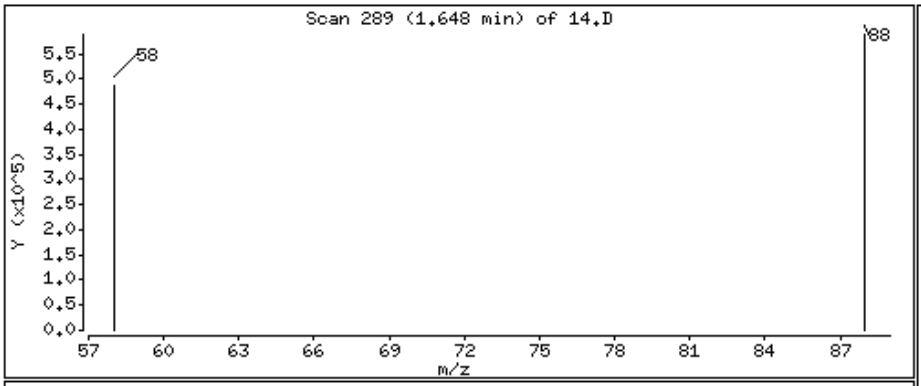
Operator: LG

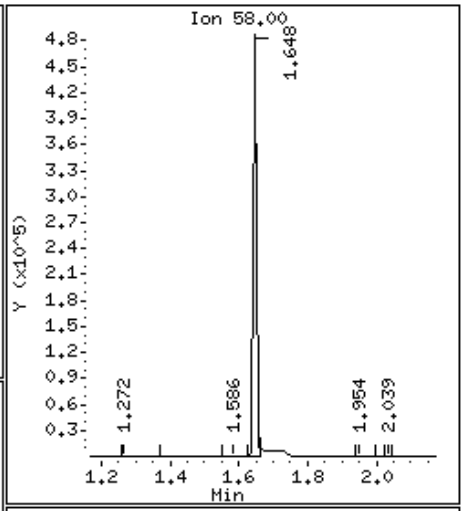
Column phase: RTX-5SIL MS

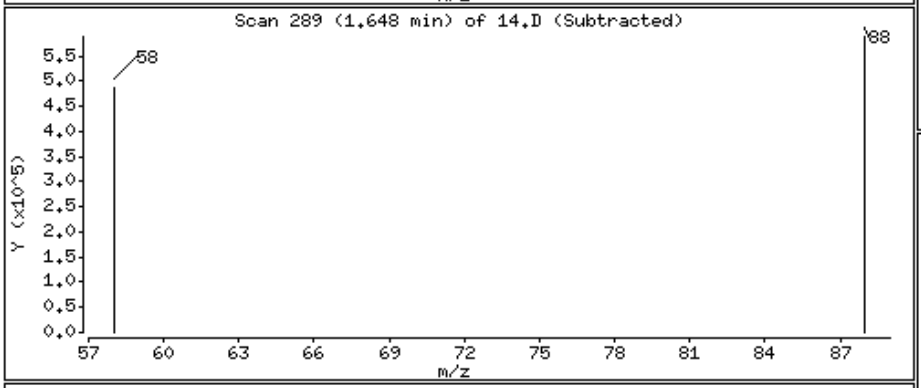
Column diameter: 0.28

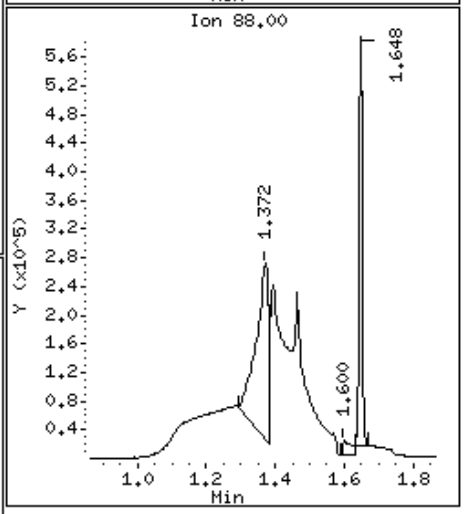
1 1,4-Dioxane

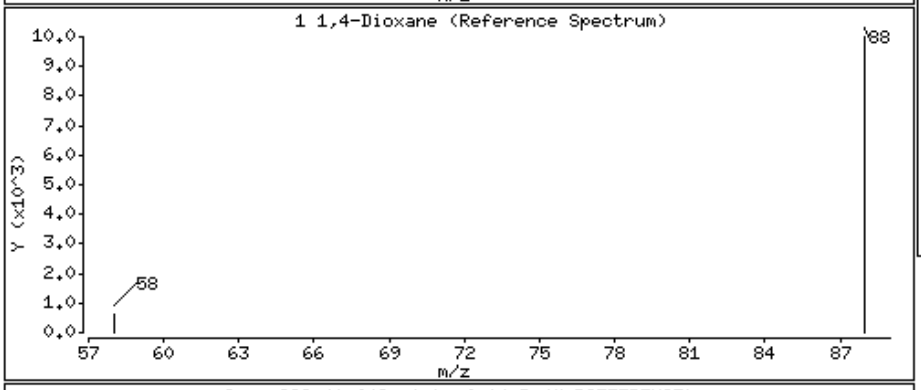
Concentration: 191.5 ug/L

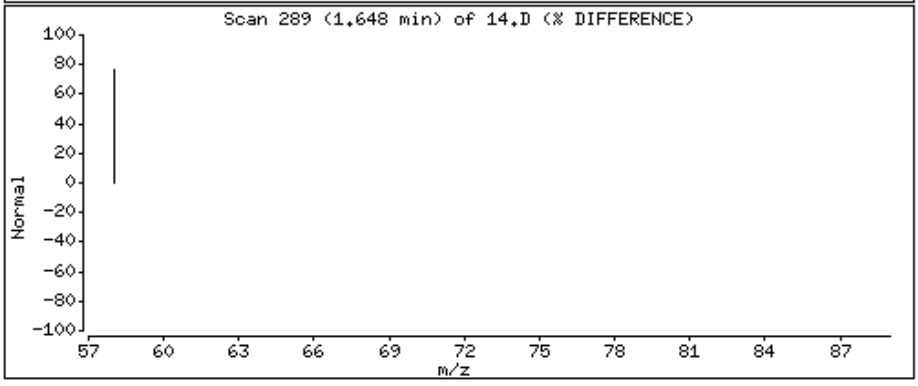












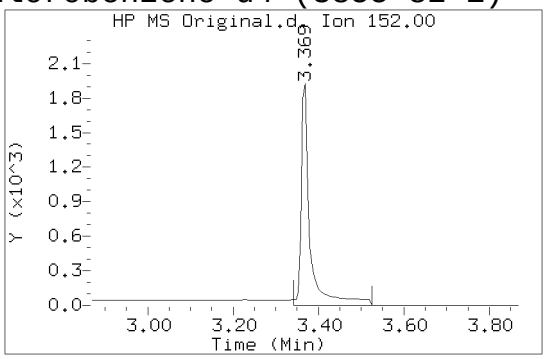
Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\14.D
Inj Date : 27-AUG-2022 14:59
InstruID : SV6.i
LabSampID : HS22080933-04

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

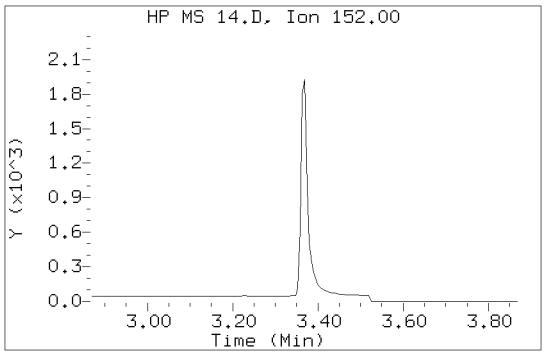
BEFORE

MASS
152
AREA
2711
HEIGHT
1925
27-Aug-2022
15:14
ALSHS
Server



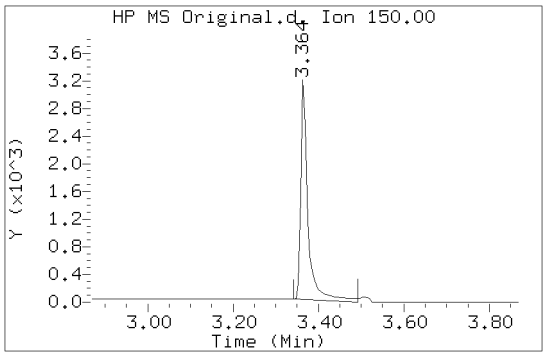
AFTER

MASS
152
AREA
4278
HEIGHT
1925
30-Aug-2022
16:00



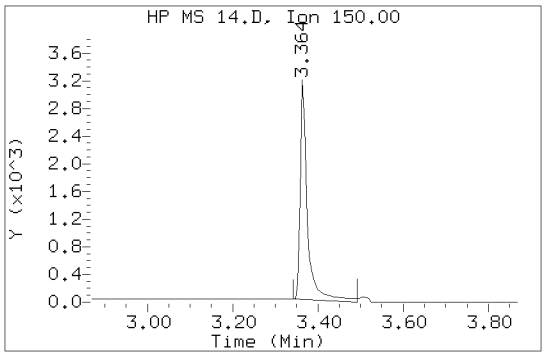
BEFORE

MASS
150
AREA
3656
HEIGHT
3171
27-Aug-2022
15:14
ALSHS
Server



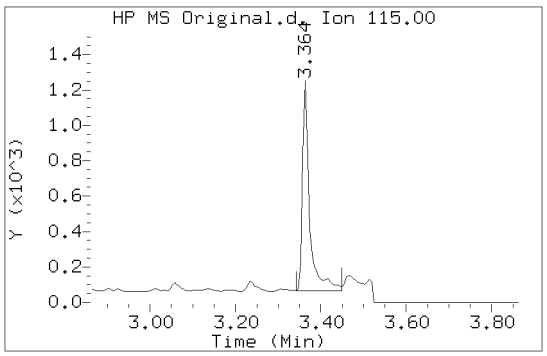
AFTER

MASS
150
AREA
3656
HEIGHT
3171
30-Aug-2022
16:00



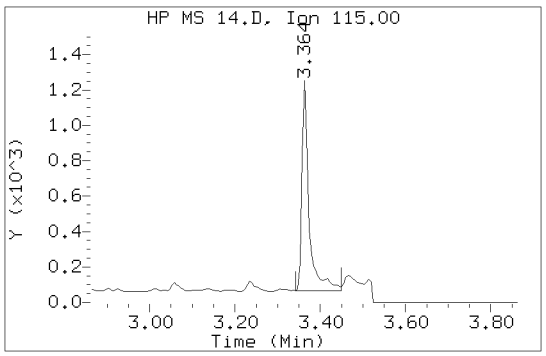
BEFORE

MASS
115
AREA
1349
HEIGHT
1186
27-Aug-2022
15:14
ALSHS
Server



AFTER

MASS
115
AREA
1349
HEIGHT
1186
30-Aug-2022
16:00

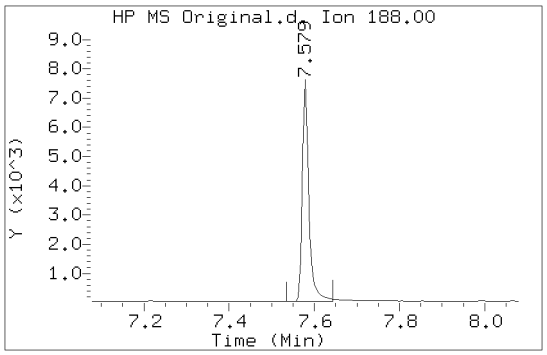


Phenanthrene-d10 (1517-22-2)

Reason Code:

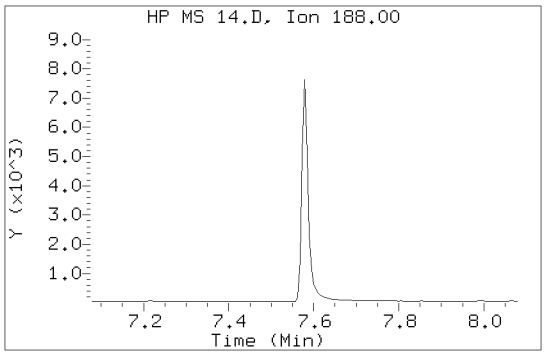
BEFORE

MASS
188
AREA
7924
HEIGHT
7575
27-Aug-2022
15:14
ALSHS
Server



AFTER

MASS
188
AREA
8700
HEIGHT
7587
30-Aug-2022
16:00

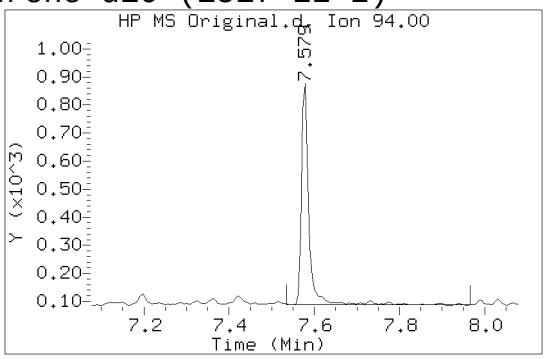


Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\14.D
Inj Date : 27-AUG-2022 14:59
InstruID : SV6.i
LabSampID : HS22080933-04

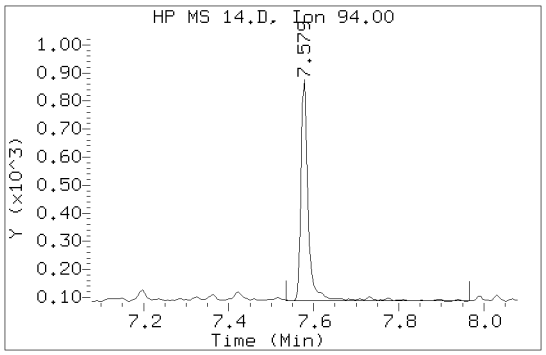
Phenanthrene-d10 (1517-22-2)

Reason Code:

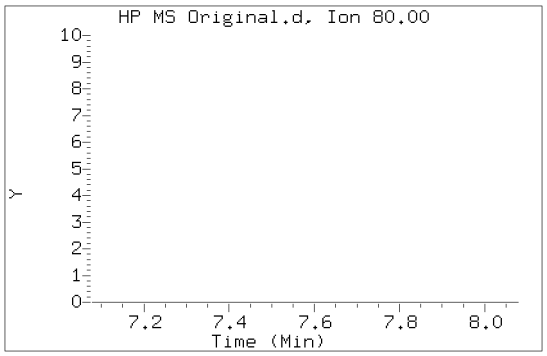
BEFORE
MASS
94
AREA
944
HEIGHT
788
27-Aug-2022
15:14
ALSHS
Server



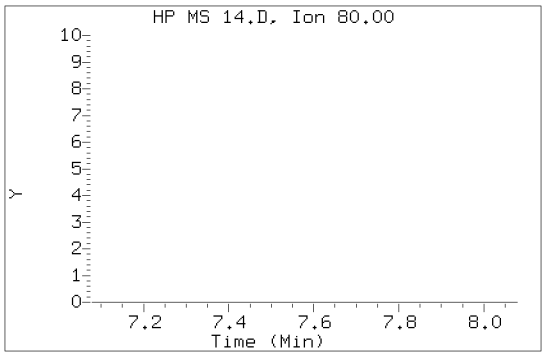
AFTER
MASS
94
AREA
944
HEIGHT
788
30-Aug-2022
16:00



BEFORE
MASS
80
AREA
0
HEIGHT
0
27-Aug-2022
15:14
ALSHS
Server



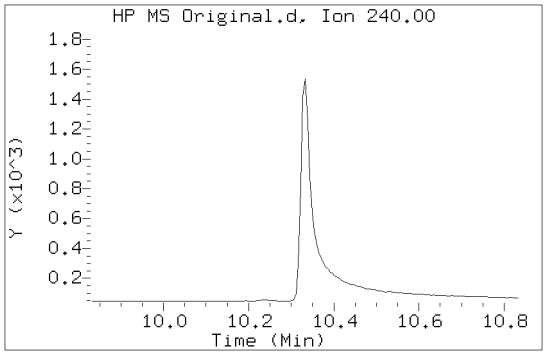
AFTER
MASS
80
AREA
0
HEIGHT
0
30-Aug-2022
16:00



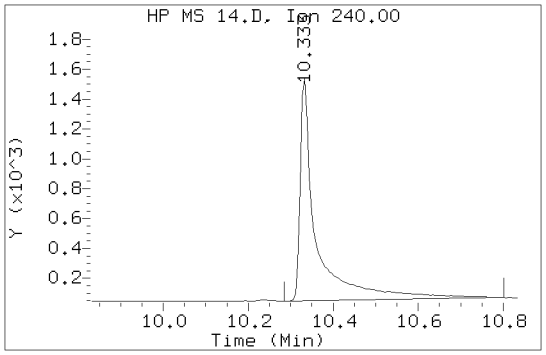
Chrysene-d12 (1719-03-5)

Reason Code:

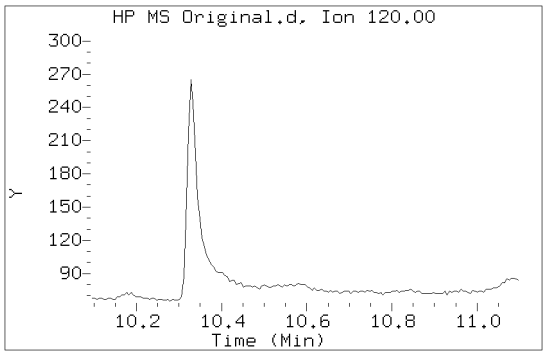
BEFORE
MASS
240
AREA
0
HEIGHT
0
27-Aug-2022
15:14
ALSHS
Server



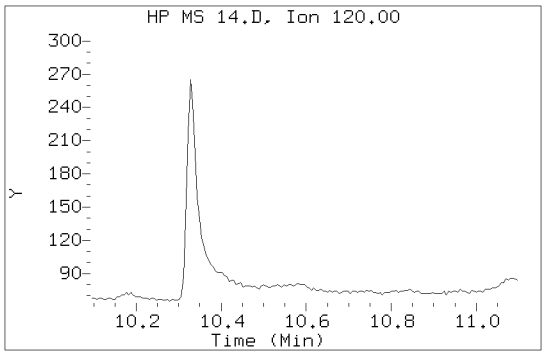
AFTER
MASS
240
AREA
3909
HEIGHT
1483
30-Aug-2022
16:00



BEFORE
MASS
120
AREA
0
HEIGHT
0
27-Aug-2022
15:14
ALSHS
Server



AFTER
MASS
120
AREA
0
HEIGHT
0
30-Aug-2022
16:00



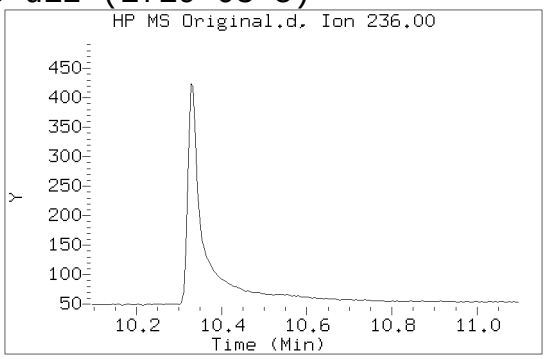
Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\14.D
Inj Date : 27-AUG-2022 14:59
InstruID : SV6.i
LabSampID : HS22080933-04

Chrysene-d12 (1719-03-5)

Reason Code:

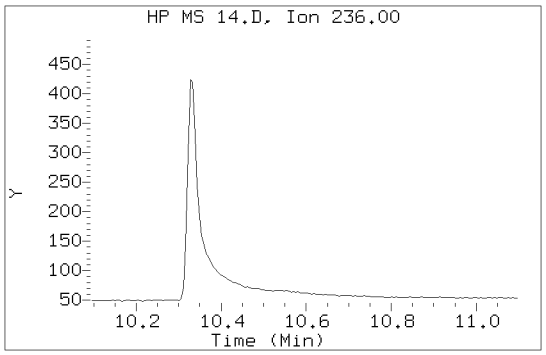
BEFORE

MASS
236
AREA
0
HEIGHT
0
27-Aug-2022
15:14
ALSHS
Server



AFTER

MASS
236
AREA
0
HEIGHT
0
30-Aug-2022
16:00

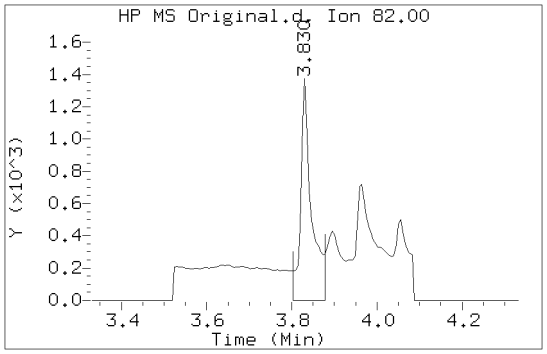


Nitrobenzene-d5 (4165-60-0)

Reason Code:

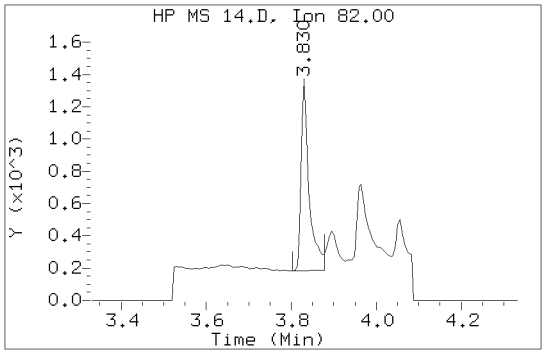
BEFORE

MASS
82
AREA
2474
HEIGHT
1374
27-Aug-2022
15:14
ALSHS
Server



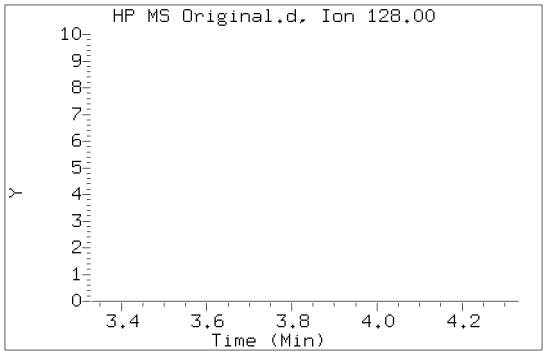
AFTER

MASS
82
AREA
1583
HEIGHT
1190
30-Aug-2022
16:00



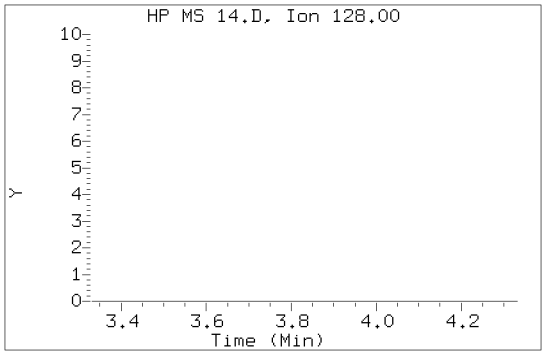
BEFORE

MASS
128
AREA
0
HEIGHT
0
27-Aug-2022
15:14
ALSHS
Server



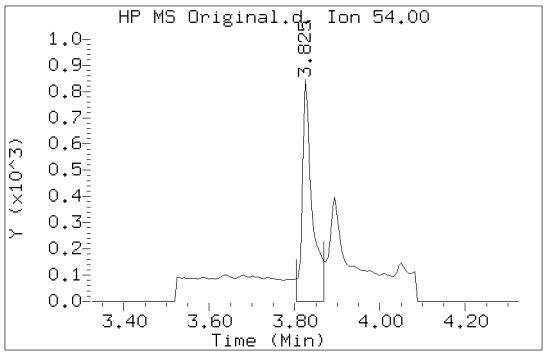
AFTER

MASS
128
AREA
0
HEIGHT
0
30-Aug-2022
16:00



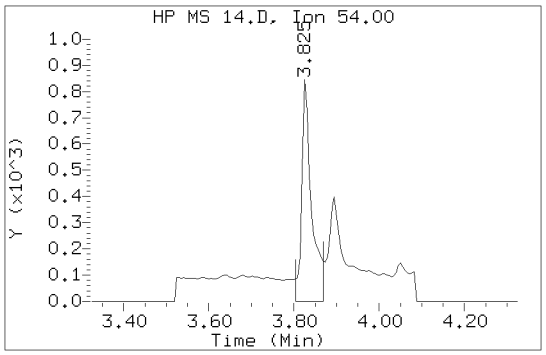
BEFORE

MASS
54
AREA
1357
HEIGHT
845
27-Aug-2022
15:14
ALSHS
Server



AFTER

MASS
54
AREA
1357
HEIGHT
845
30-Aug-2022
16:00

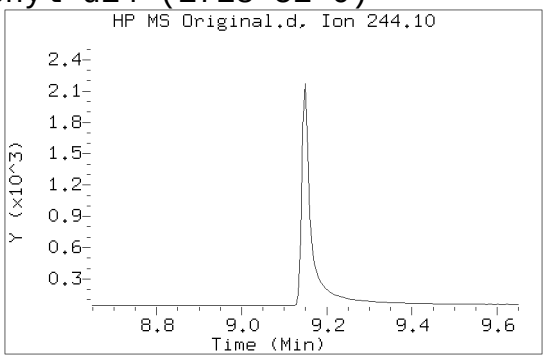


Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\14.D
Inj Date : 27-AUG-2022 14:59
InstruID : SV6.i
LabSampID : HS22080933-04

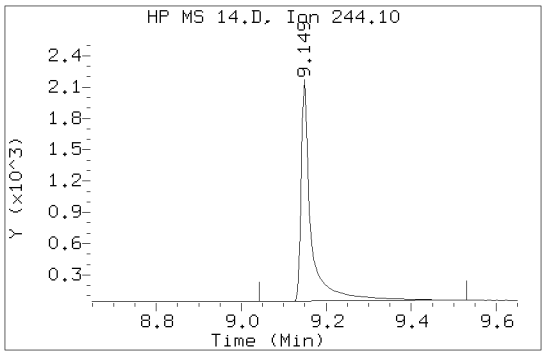
4-Terphenyl-d14 (1718-51-0)

Reason Code:

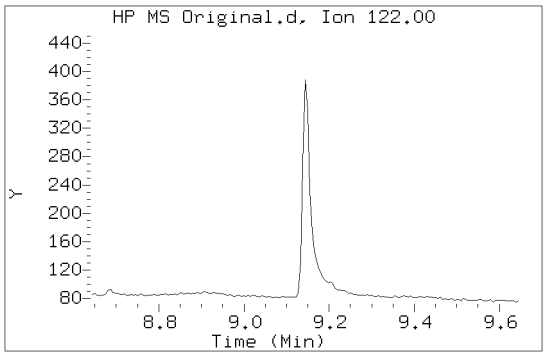
BEFORE
MASS
244.1
AREA
0
HEIGHT
0
27-Aug-2022
15:14
ALSHS
Server



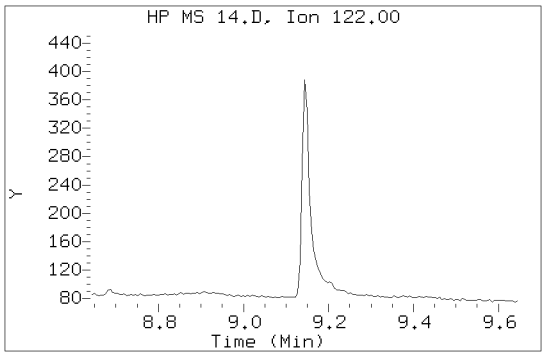
AFTER
MASS
244.1
AREA
3411
HEIGHT
2119
30-Aug-2022
16:00



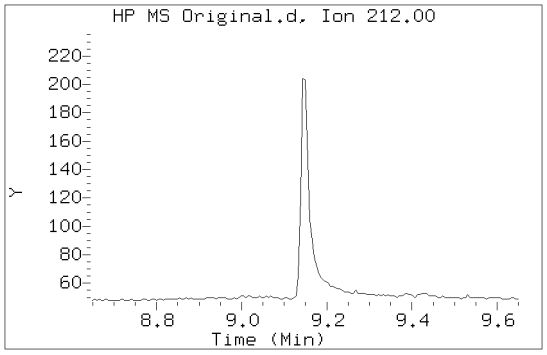
BEFORE
MASS
122
AREA
0
HEIGHT
0
27-Aug-2022
15:14
ALSHS
Server



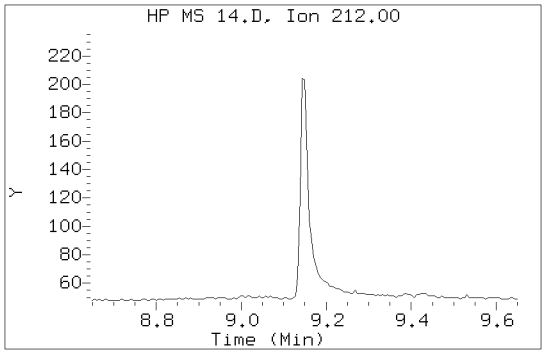
AFTER
MASS
122
AREA
0
HEIGHT
0
30-Aug-2022
16:00



BEFORE
MASS
212
AREA
0
HEIGHT
0
27-Aug-2022
15:14
ALSHS
Server



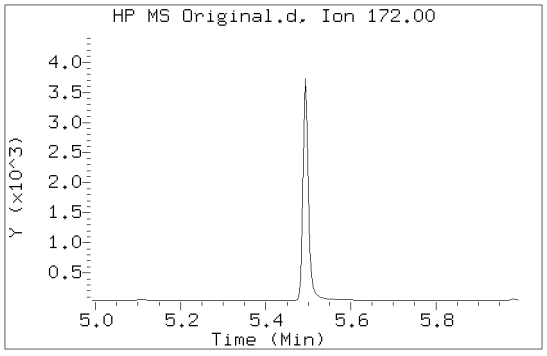
AFTER
MASS
212
AREA
0
HEIGHT
0
30-Aug-2022
16:00



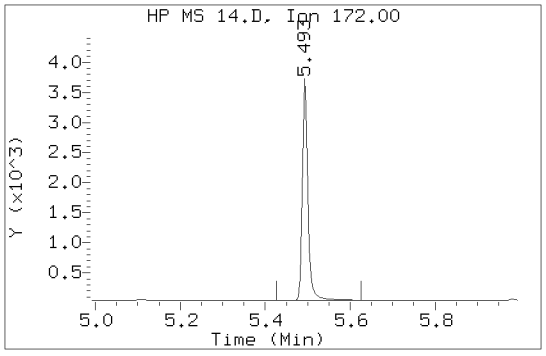
2-Fluorobiphenyl (321-60-8)

Reason Code:

BEFORE
MASS
172
AREA
0
HEIGHT
0
27-Aug-2022
15:14
ALSHS
Server



AFTER
MASS
172
AREA
3399
HEIGHT
3681
30-Aug-2022
16:00



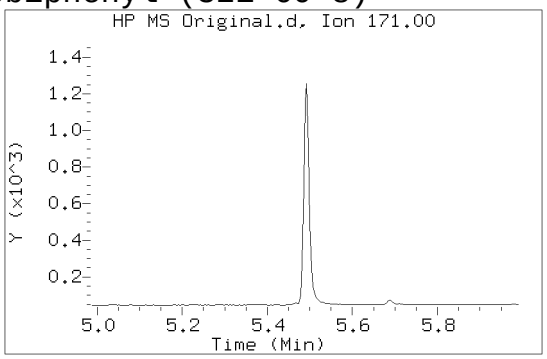
Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\14.D
Inj Date : 27-AUG-2022 14:59
InstruID : SV6.i
LabSampID : HS22080933-04

2-Fluorobiphenyl (321-60-8)

Reason Code:

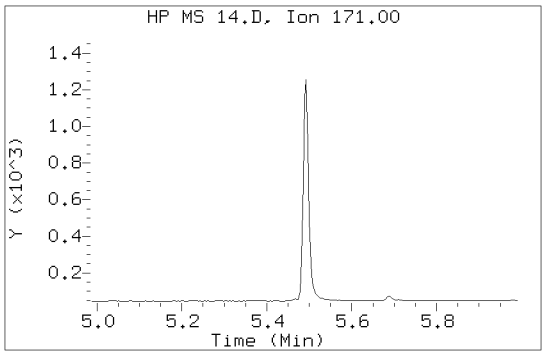
BEFORE

MASS
171
AREA
0
HEIGHT
0
27-Aug-2022
15:14
ALSHS
Server



AFTER

MASS
171
AREA
0
HEIGHT
0
30-Aug-2022
16:00



Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\15.D Page 1
Report Date: 30-Aug-2022 16:01

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220827.b\15.D
Lab Smp Id: HS22080933-06
Inj Date : 27-AUG-2022 15:17
Operator : LG Inst ID: SV6.i
Smp Info : HS22080933-06
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\220827.b\DXSIM.m
Meth Date : 29-Aug-2022 09:27 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 12:56 Cal File: 009.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	3.368	3.368	(1.000)	4896	0.10000	(aM)
* 45 Naphthalene-d8	136	4.471	4.471	(1.000)	10148	0.10000	
$ 33 Nitrobenzene-d5	82	3.830	3.830	(0.857)	2127	0.06288	0.06288(M)
* 86 Acenaphthene-d10	164	6.138	6.138	(1.000)	6530	0.10000	(Q)
$ 69 2-Fluorobiphenyl	172	5.492	5.492	(0.895)	4834	0.04756	0.04756(M)
* 126 Phenanthrene-d10	188	7.578	7.578	(1.000)	8823	0.10000	
* 182 Chrysene-d12	240	10.332	10.332	(1.000)	4519	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.149	9.148	(0.885)	4424	0.05207	0.05207(M)
* 198 Perylene-d12	264	12.325	12.319	(1.000)	4126	0.10000	(M)
1 1,4-Dioxane	58	1.615	1.670	(0.479)	344	0.17115	0.1711(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.

01141561

Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\15.D

Date : 27-AUG-2022 15:17

Client ID:

Instrument: SV6.i

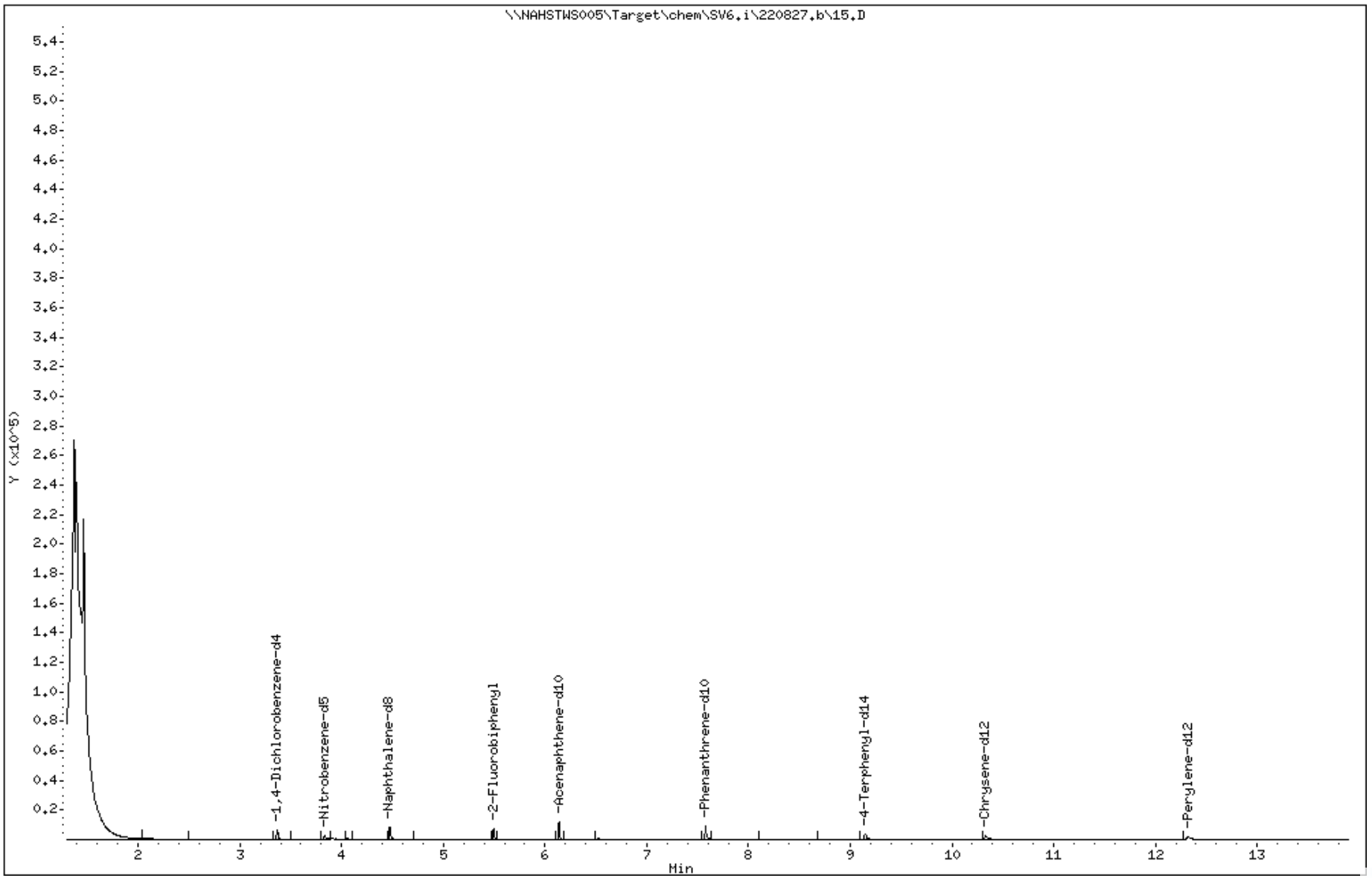
Sample Info: HS22080933-06

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\15.D

Date : 27-AUG-2022 15:17

Client ID:

Instrument: SV6.i

Sample Info: HS22080933-06

Purge Volume: 1000.0

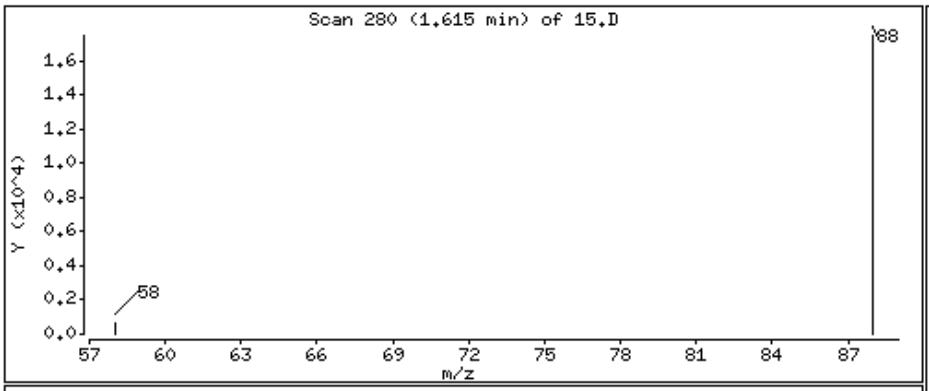
Operator: LG

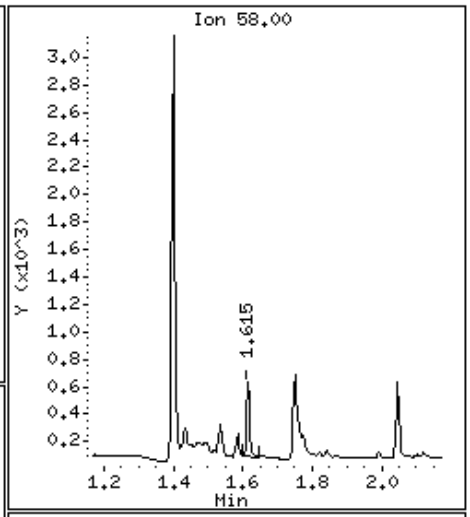
Column phase: RTX-5SIL MS

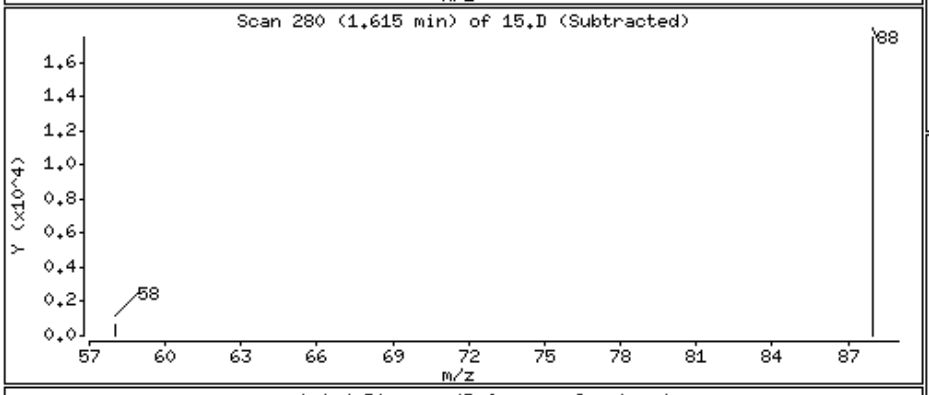
Column diameter: 0.28

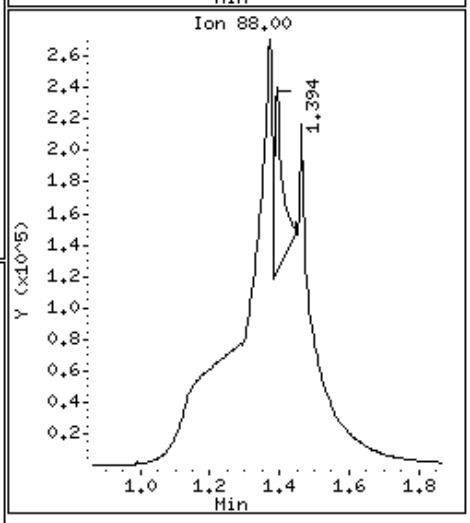
1 1,4-Dioxane

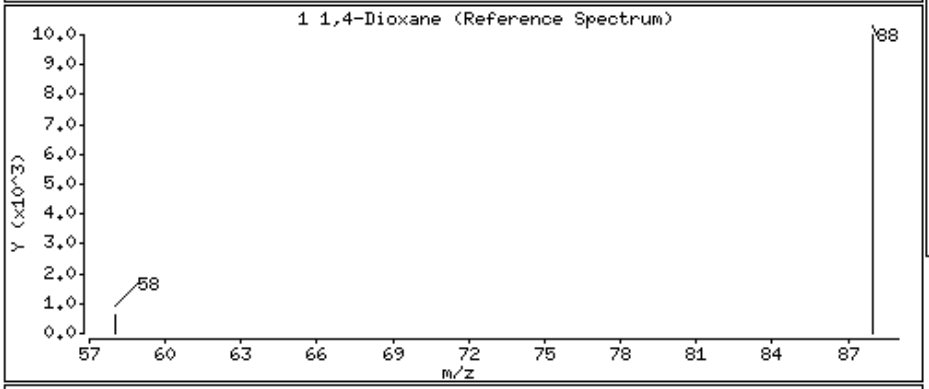
Concentration: 0.1711 ug/L

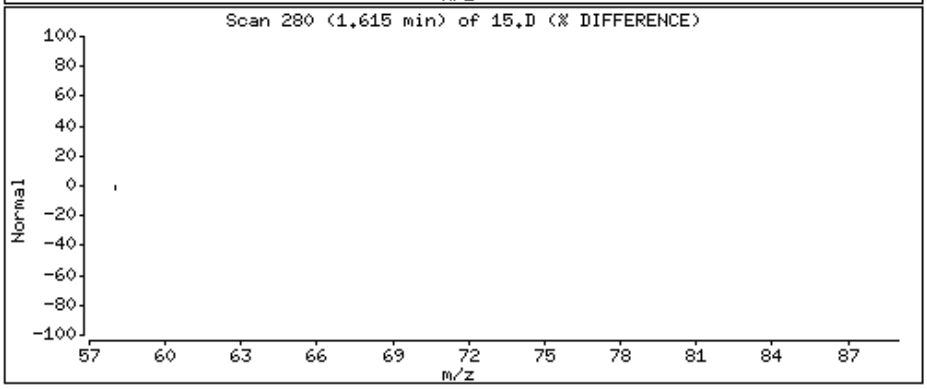












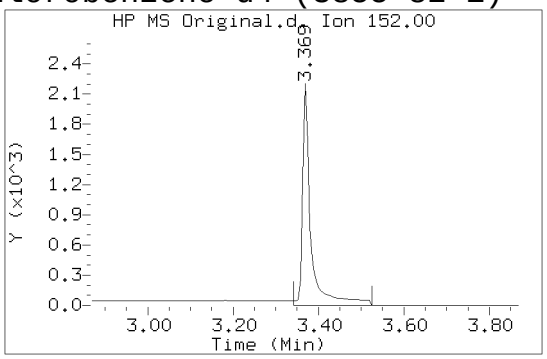
Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\15.D
Inj Date : 27-AUG-2022 15:17
InstruID : SV6.i
LabSampID : HS22080933-06

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

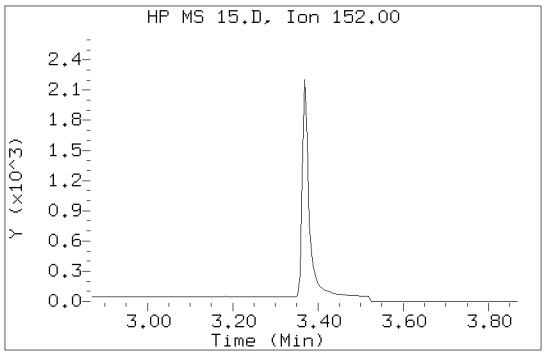
BEFORE

MASS
152
AREA
2921
HEIGHT
2203
27-Aug-2022
15:31
ALSHS
Server



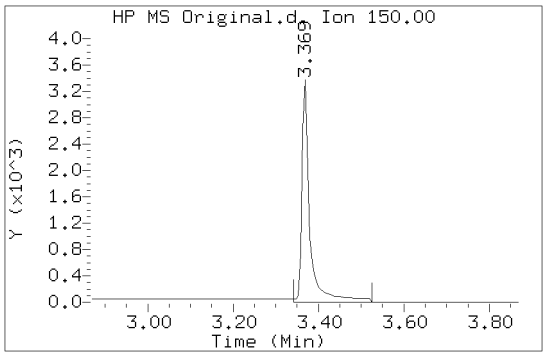
AFTER

MASS
152
AREA
4896
HEIGHT
2203
30-Aug-2022
16:01



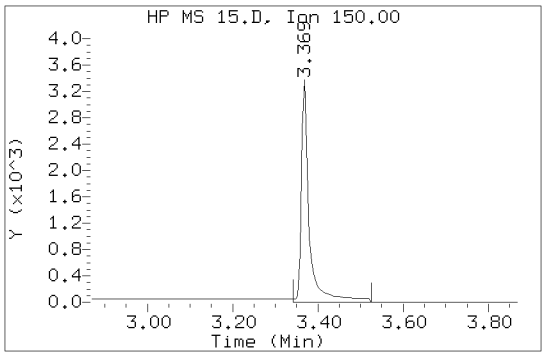
BEFORE

MASS
150
AREA
4310
HEIGHT
3375
27-Aug-2022
15:31
ALSHS
Server



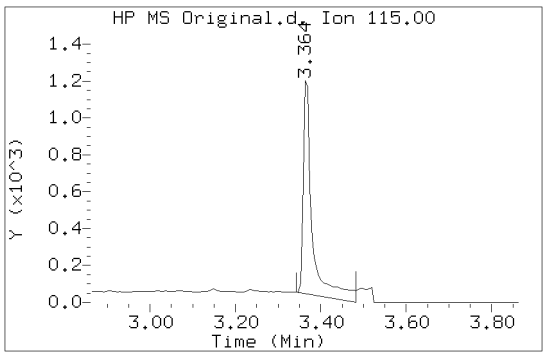
AFTER

MASS
150
AREA
4310
HEIGHT
3375
30-Aug-2022
16:01



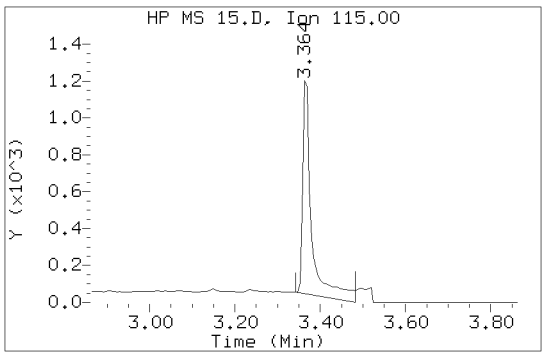
BEFORE

MASS
115
AREA
1663
HEIGHT
1154
27-Aug-2022
15:31
ALSHS
Server



AFTER

MASS
115
AREA
1663
HEIGHT
1154
30-Aug-2022
16:01

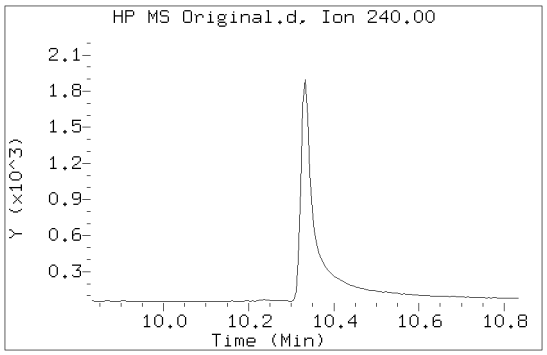


Chrysene-d12 (1719-03-5)

Reason Code:

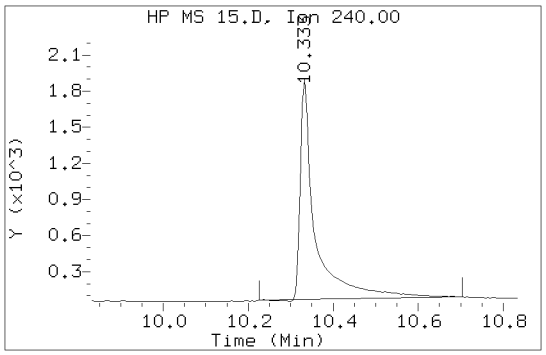
BEFORE

MASS
240
AREA
0
HEIGHT
0
27-Aug-2022
15:31
ALSHS
Server



AFTER

MASS
240
AREA
4519
HEIGHT
1826
30-Aug-2022
16:01

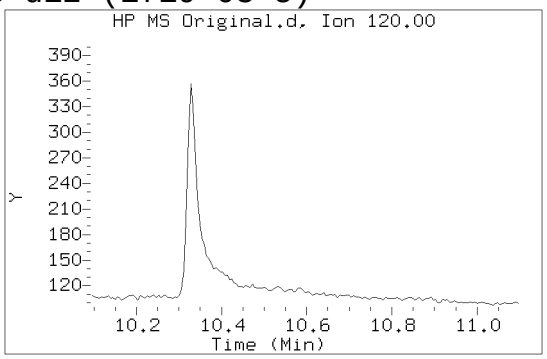


Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\15.D
Inj Date : 27-AUG-2022 15:17
InstruID : SV6.i
LabSampID : HS22080933-06

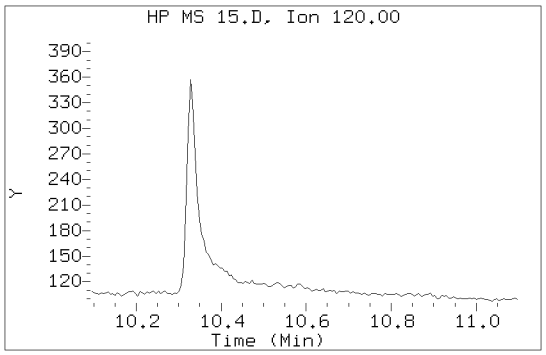
Chrysene-d12 (1719-03-5)

Reason Code:

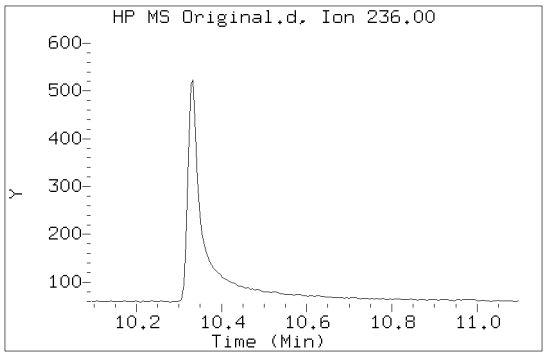
BEFORE
MASS
120
AREA
0
HEIGHT
0
27-Aug-2022
15:31
ALSHS
Server



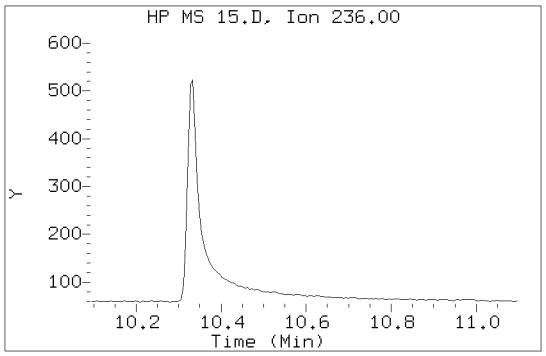
AFTER
MASS
120
AREA
0
HEIGHT
0
30-Aug-2022
16:01



BEFORE
MASS
236
AREA
0
HEIGHT
0
27-Aug-2022
15:31
ALSHS
Server



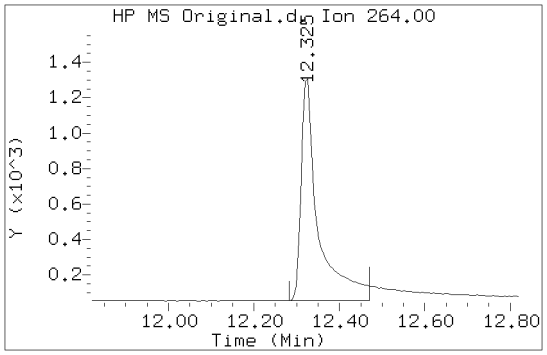
AFTER
MASS
236
AREA
0
HEIGHT
0
30-Aug-2022
16:01



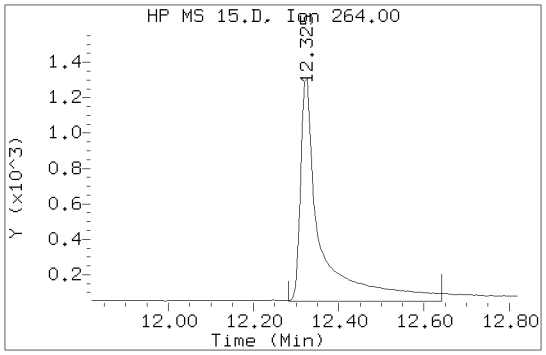
Perylene-d12 (1520-96-3)

Reason Code:

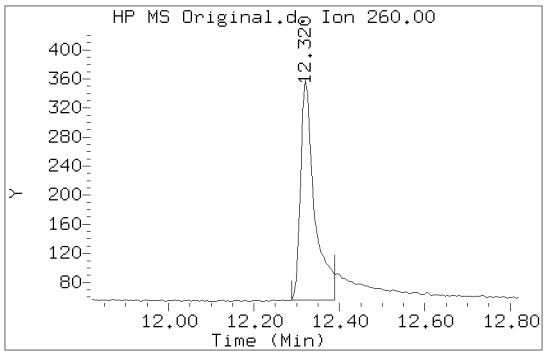
BEFORE
MASS
264
AREA
3475
HEIGHT
1251
27-Aug-2022
15:31
ALSHS
Server



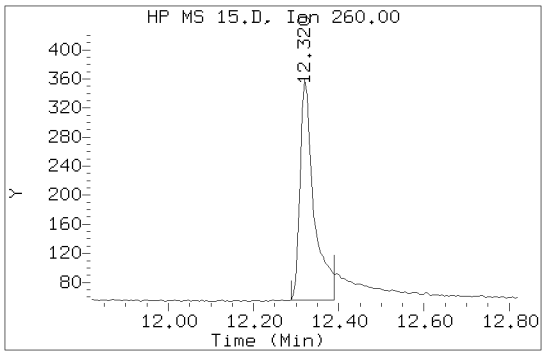
AFTER
MASS
264
AREA
4126
HEIGHT
1255
30-Aug-2022
16:01



BEFORE
MASS
260
AREA
686
HEIGHT
303
27-Aug-2022
15:31
ALSHS
Server



AFTER
MASS
260
AREA
686
HEIGHT
303
30-Aug-2022
16:01



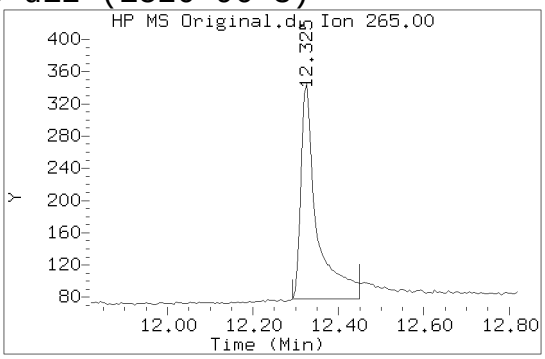
Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\15.D
Inj Date : 27-AUG-2022 15:17
InstruID : SV6.i
LabSampID : HS22080933-06

Perylene-d12 (1520-96-3)

Reason Code:

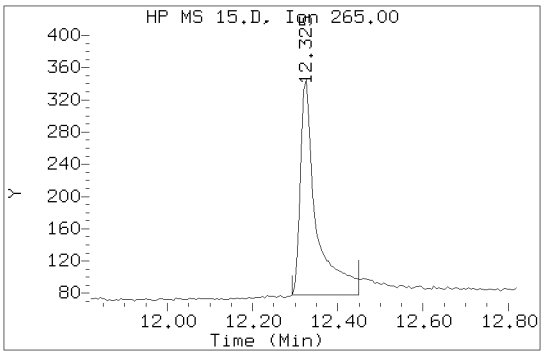
BEFORE

MASS
265
AREA
686
HEIGHT
267
27-Aug-2022
15:31
ALSHS
Server



AFTER

MASS
265
AREA
686
HEIGHT
267
30-Aug-2022
16:01

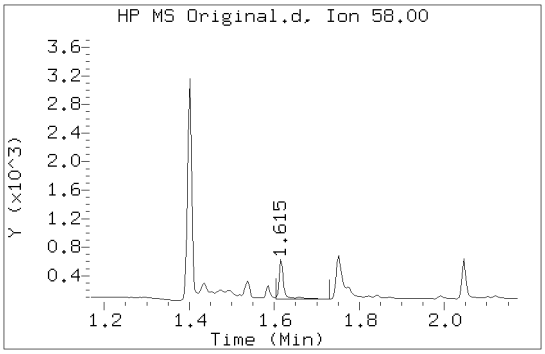


1,4-Dioxane ()

Reason Code:

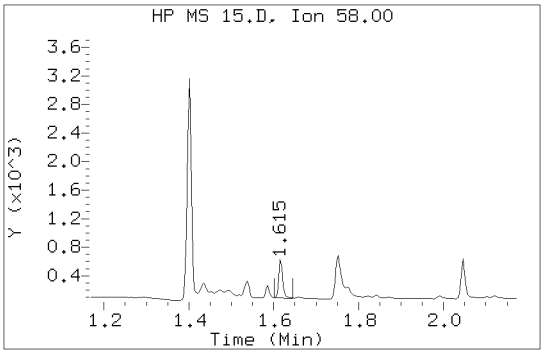
BEFORE

MASS
58
AREA
434
HEIGHT
555
27-Aug-2022
15:31
ALSHS
Server



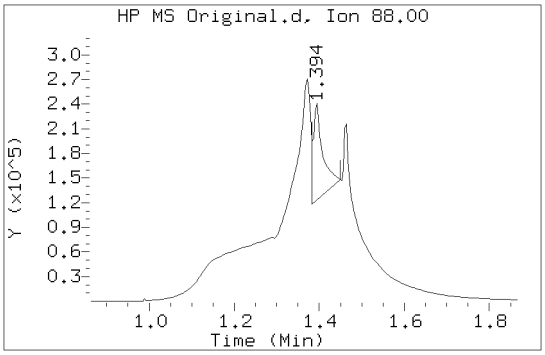
AFTER

MASS
58
AREA
344
HEIGHT
537
30-Aug-2022
16:01



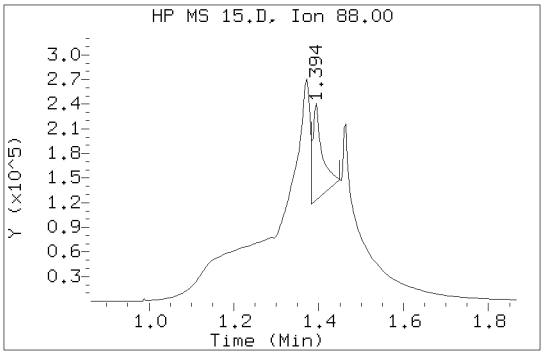
BEFORE

MASS
88
AREA
189572
HEIGHT
118001
27-Aug-2022
15:31
ALSHS
Server



AFTER

MASS
88
AREA
189572
HEIGHT
118001
30-Aug-2022
16:01

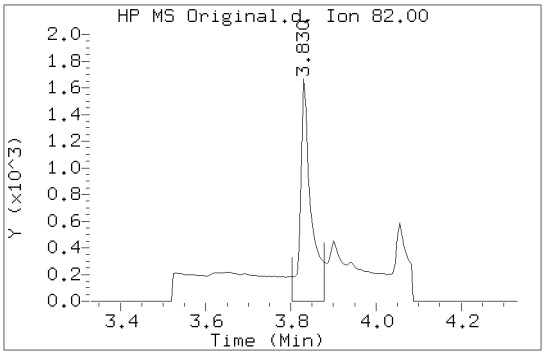


Nitrobenzene-d5 (4165-60-0)

Reason Code:

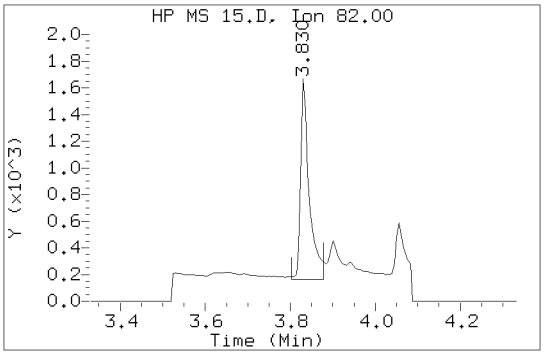
BEFORE

MASS
82
AREA
2924
HEIGHT
1667
27-Aug-2022
15:31
ALSHS
Server



AFTER

MASS
82
AREA
2127
HEIGHT
1501
30-Aug-2022
16:01

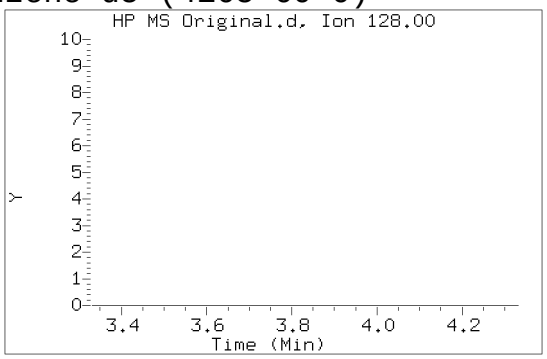


Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\15.D
Inj Date : 27-AUG-2022 15:17
InstruID : SV6.i
LabSampID : HS22080933-06

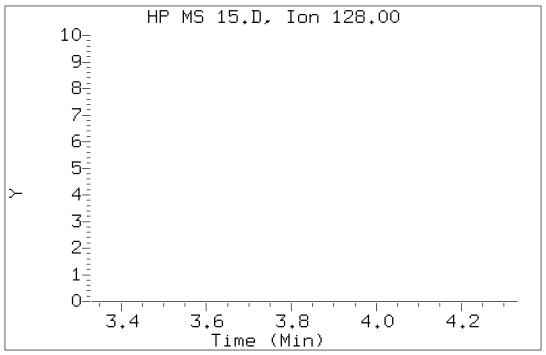
Nitrobenzene-d5 (4165-60-0)

Reason Code:

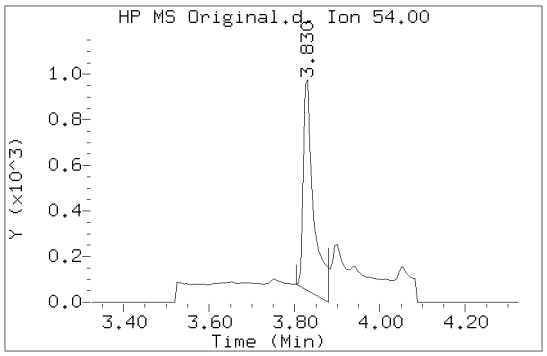
BEFORE
MASS
128
AREA
0
HEIGHT
0
27-Aug-2022
15:31
ALSHS
Server



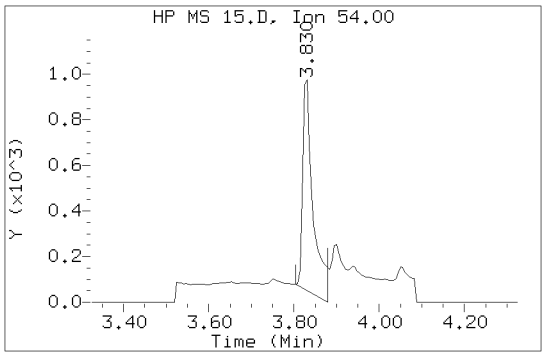
AFTER
MASS
128
AREA
0
HEIGHT
0
30-Aug-2022
16:01



BEFORE
MASS
54
AREA
1539
HEIGHT
924
27-Aug-2022
15:31
ALSHS
Server



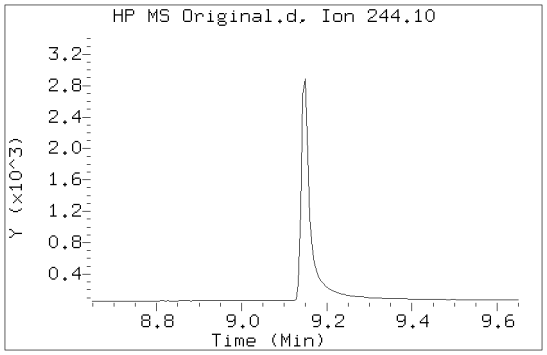
AFTER
MASS
54
AREA
1539
HEIGHT
924
30-Aug-2022
16:01



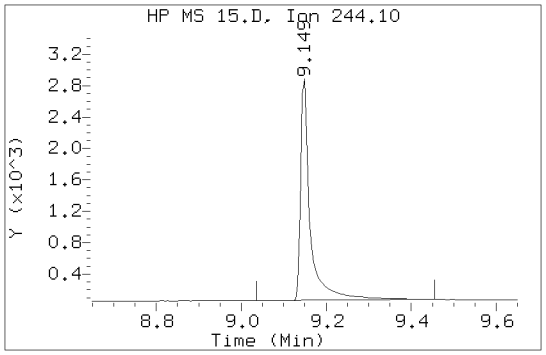
4-Terphenyl-d14 (1718-51-0)

Reason Code:

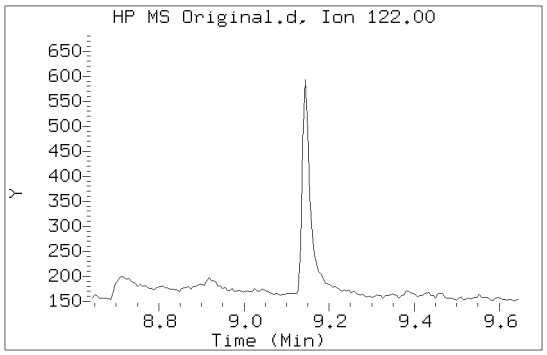
BEFORE
MASS
244.1
AREA
0
HEIGHT
0
27-Aug-2022
15:31
ALSHS
Server



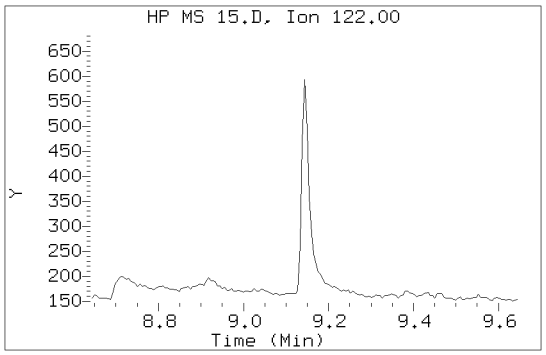
AFTER
MASS
244.1
AREA
4424
HEIGHT
2819
30-Aug-2022
16:01



BEFORE
MASS
122
AREA
0
HEIGHT
0
27-Aug-2022
15:31
ALSHS
Server



AFTER
MASS
122
AREA
0
HEIGHT
0
30-Aug-2022
16:01



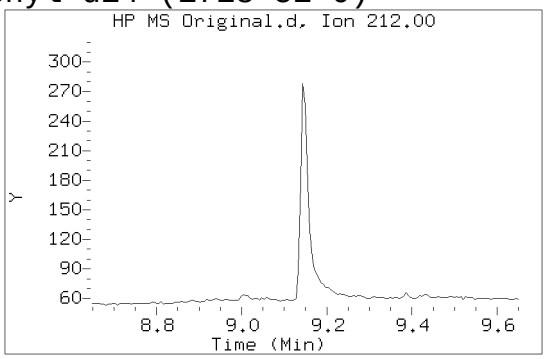
Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\15.D
Inj Date : 27-AUG-2022 15:17
InstruID : SV6.i
LabSampID : HS22080933-06

4-Terphenyl-d14 (1718-51-0)

Reason Code:

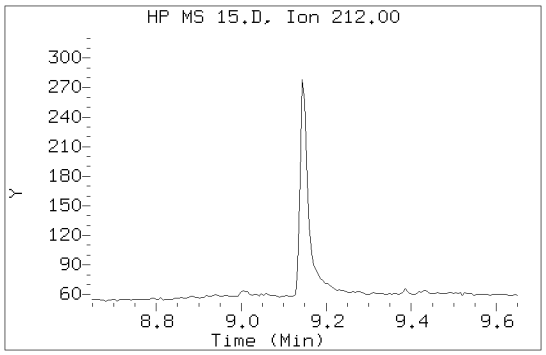
BEFORE

MASS
212
AREA
0
HEIGHT
0
27-Aug-2022
15:31
ALSHS
Server



AFTER

MASS
212
AREA
0
HEIGHT
0
30-Aug-2022
16:01

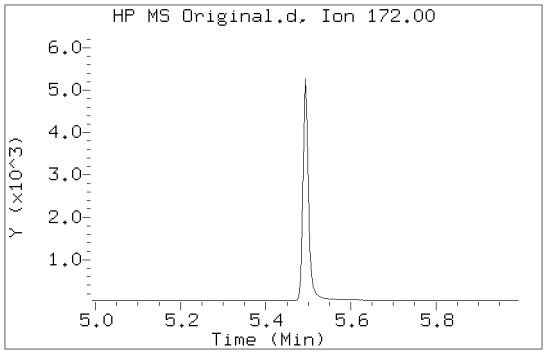


2-Fluorobiphenyl (321-60-8)

Reason Code:

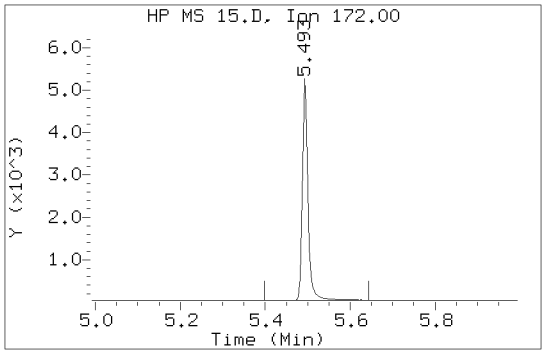
BEFORE

MASS
172
AREA
0
HEIGHT
0
27-Aug-2022
15:31
ALSHS
Server



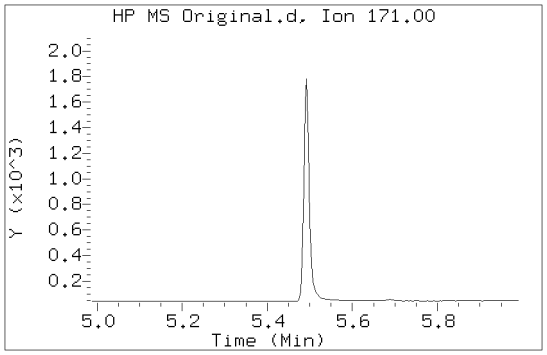
AFTER

MASS
172
AREA
4834
HEIGHT
5223
30-Aug-2022
16:01



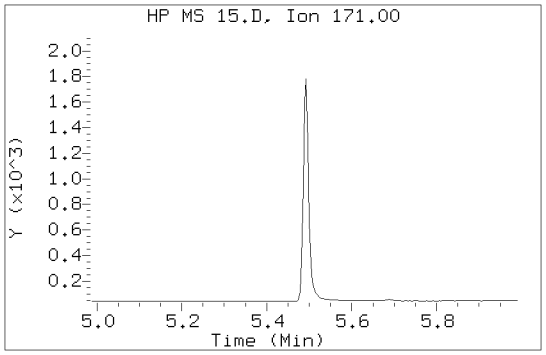
BEFORE

MASS
171
AREA
0
HEIGHT
0
27-Aug-2022
15:31
ALSHS
Server



AFTER

MASS
171
AREA
0
HEIGHT
0
30-Aug-2022
16:01



Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\16.D Page 1
Report Date: 30-Aug-2022 16:02

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220827.b\16.D
Lab Smp Id: HS22080933-07
Inj Date : 27-AUG-2022 15:35
Operator : LG Inst ID: SV6.i
Smp Info : HS22080933-07
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\220827.b\DXSIM.m
Meth Date : 29-Aug-2022 09:27 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 12:56 Cal File: 009.D
Als bottle: 16
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	3.374	3.368	(1.000)	6545	0.10000	(aM)
* 45 Naphthalene-d8	136	4.471	4.471	(1.000)	15177	0.10000	
$ 33 Nitrobenzene-d5	82	3.830	3.830	(0.857)	3176	0.06278	0.06278(M)
* 86 Acenaphthene-d10	164	6.138	6.138	(1.000)	9447	0.10000	(Q)
$ 69 2-Fluorobiphenyl	172	5.492	5.492	(0.895)	6954	0.04729	0.04729
* 126 Phenanthrene-d10	188	7.578	7.578	(1.000)	14206	0.10000	
* 182 Chrysene-d12	240	10.332	10.332	(1.000)	7363	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.143	9.148	(0.885)	6777	0.04896	0.04896(M)
* 198 Perylene-d12	264	12.319	12.319	(1.000)	6573	0.10000	
1 1,4-Dioxane	58	1.651	1.670	(0.490)	629	0.23410	0.2341(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.

01141569

Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\16.D

Date : 27-AUG-2022 15:35

Client ID:

Instrument: SV6.i

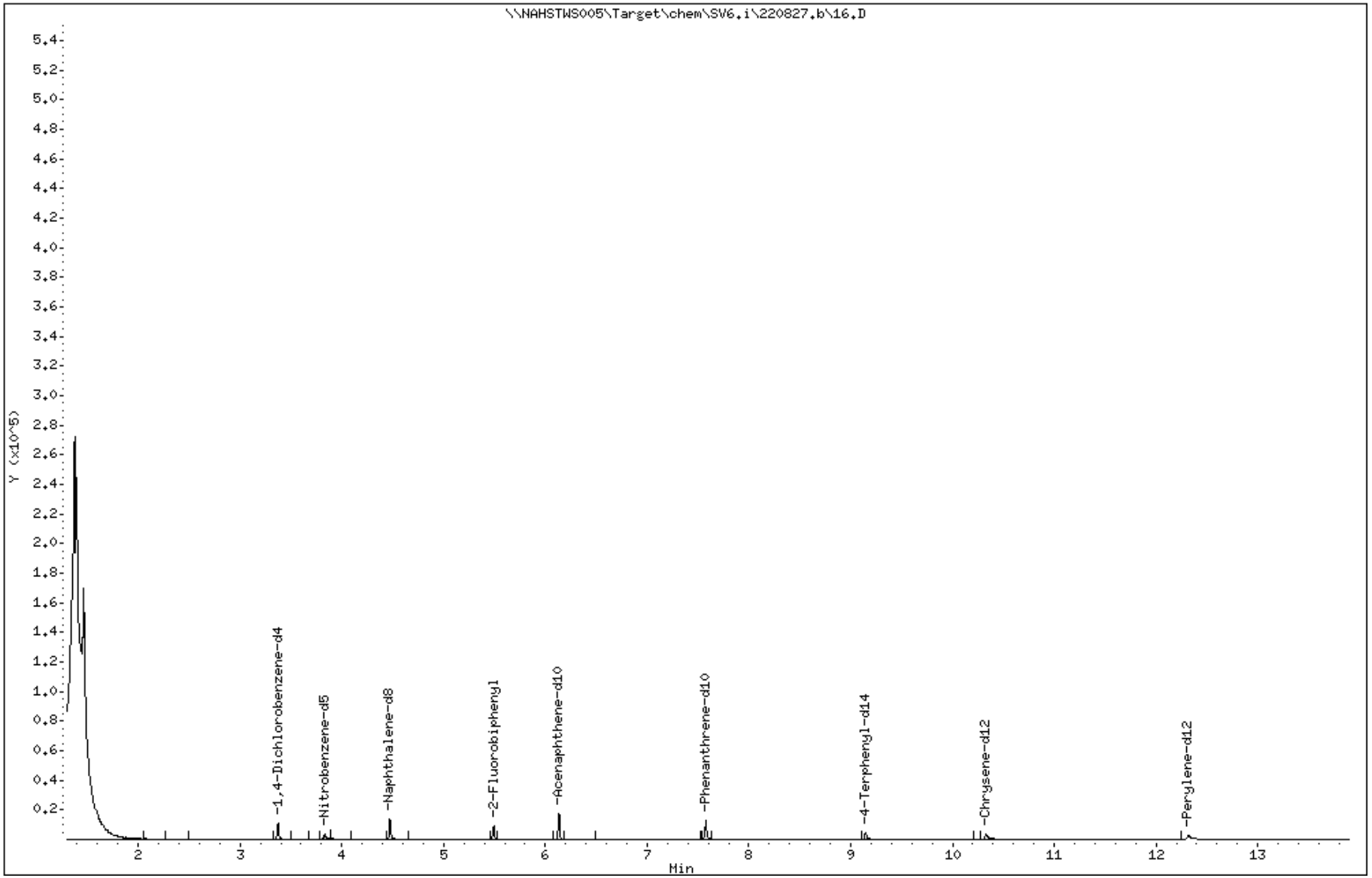
Sample Info: HS22080933-07

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\16.D

Date : 27-AUG-2022 15:35

Client ID:

Instrument: SV6.i

Sample Info: HS22080933-07

Purge Volume: 1000.0

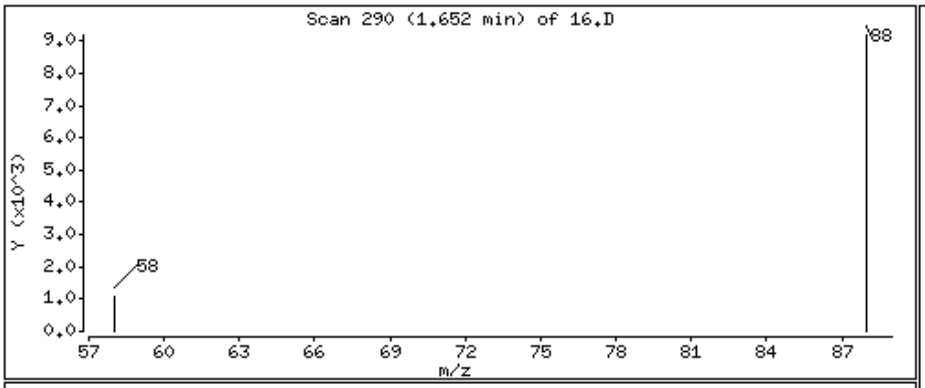
Operator: LG

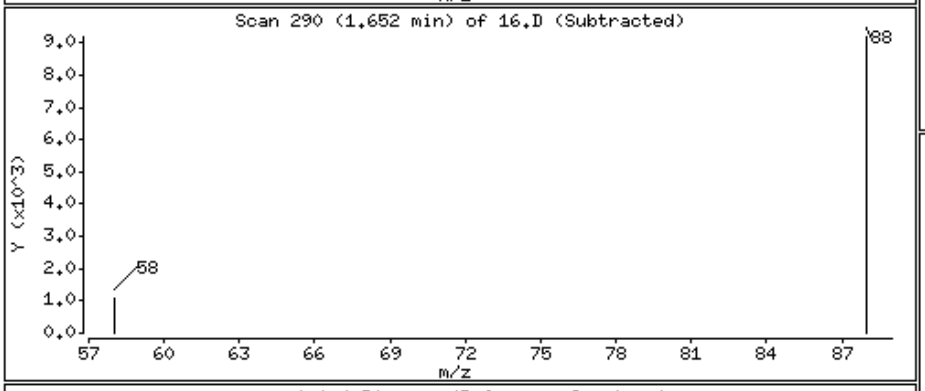
Column phase: RTX-5SIL MS

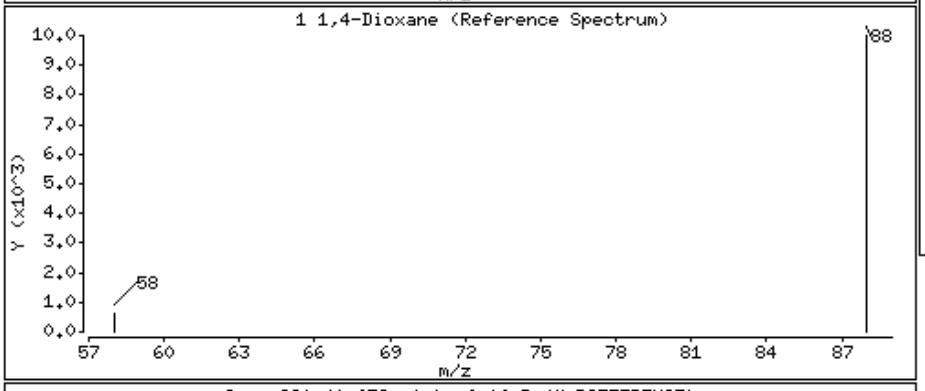
Column diameter: 0.28

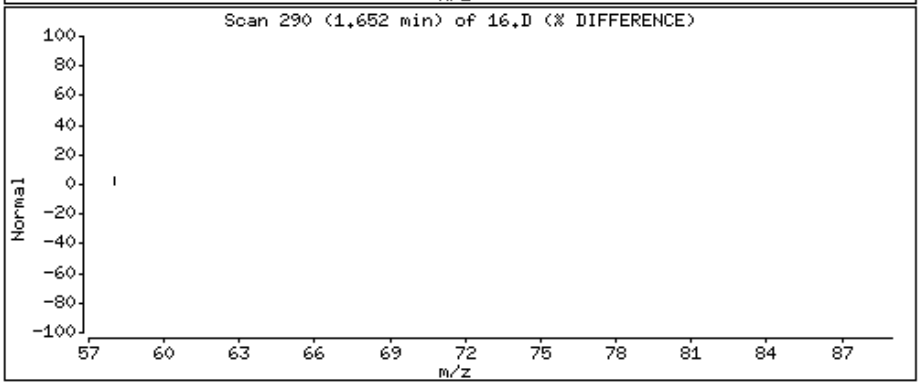
1 1,4-Dioxane

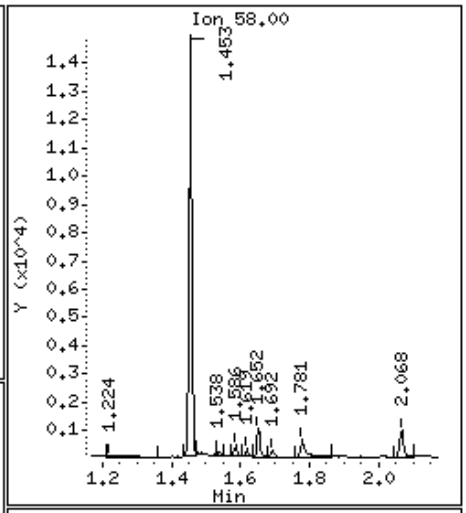
Concentration: 0.2341 ug/L

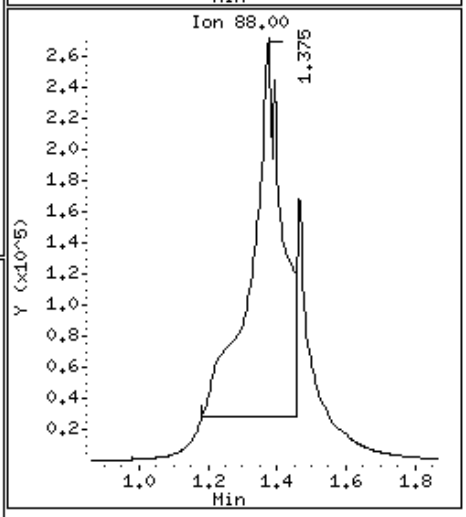












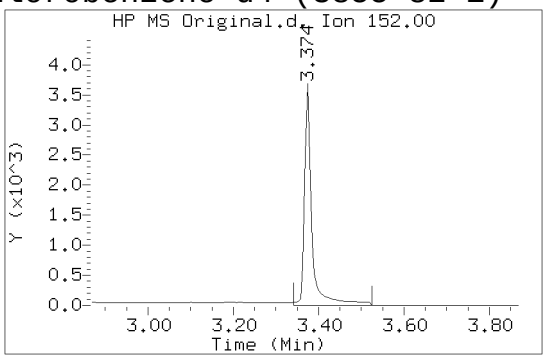
Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\16.D
Inj Date : 27-AUG-2022 15:35
InstruID : SV6.i
LabSampID : HS22080933-07

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

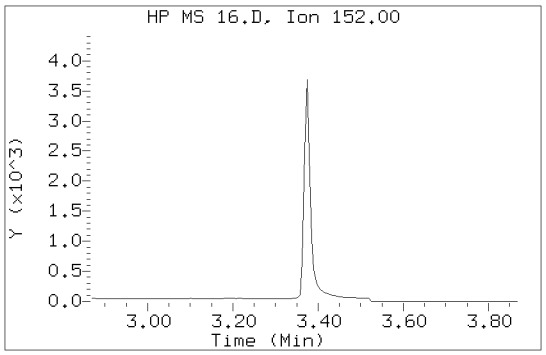
BEFORE

MASS
152
AREA
4377
HEIGHT
3686
27-Aug-2022
15:50
ALSHS
Server



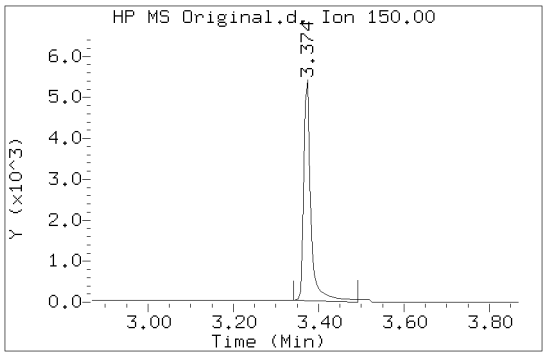
AFTER

MASS
152
AREA
6545
HEIGHT
3686
30-Aug-2022
16:02



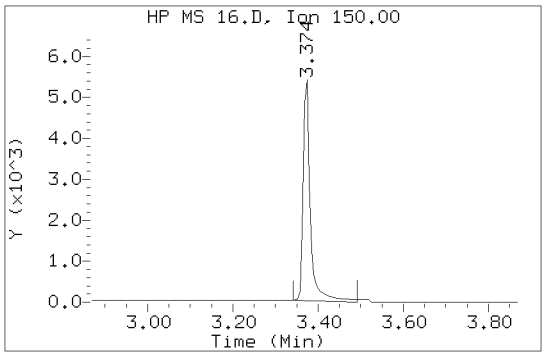
BEFORE

MASS
150
AREA
6240
HEIGHT
5389
27-Aug-2022
15:50
ALSHS
Server



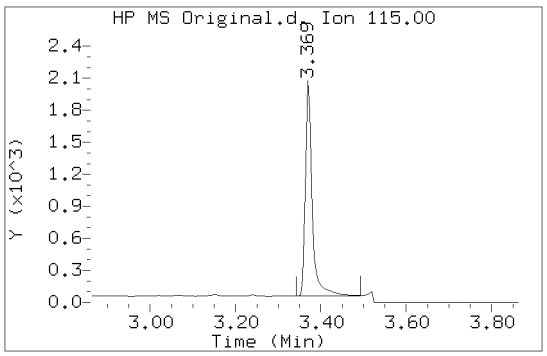
AFTER

MASS
150
AREA
6240
HEIGHT
5389
30-Aug-2022
16:02



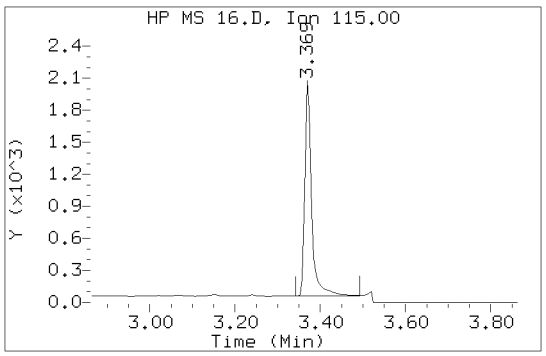
BEFORE

MASS
115
AREA
2225
HEIGHT
2017
27-Aug-2022
15:50
ALSHS
Server



AFTER

MASS
115
AREA
2225
HEIGHT
2017
30-Aug-2022
16:02

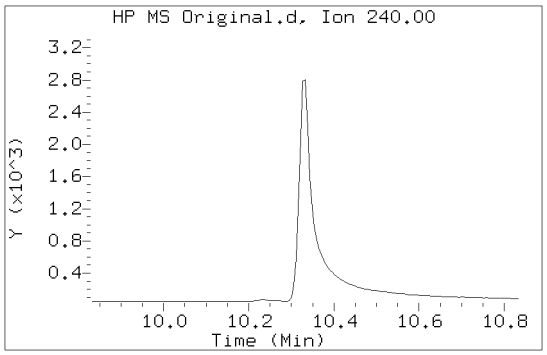


Chrysene-d12 (1719-03-5)

Reason Code:

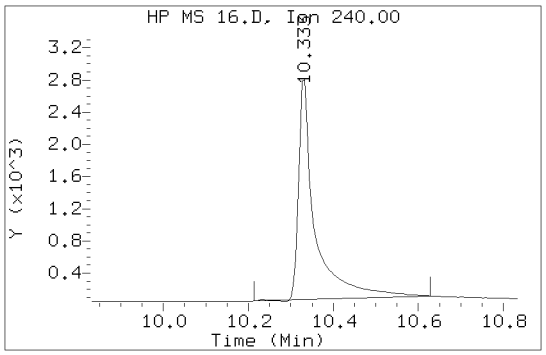
BEFORE

MASS
240
AREA
0
HEIGHT
0
27-Aug-2022
15:50
ALSHS
Server



AFTER

MASS
240
AREA
7363
HEIGHT
2731
30-Aug-2022
16:02

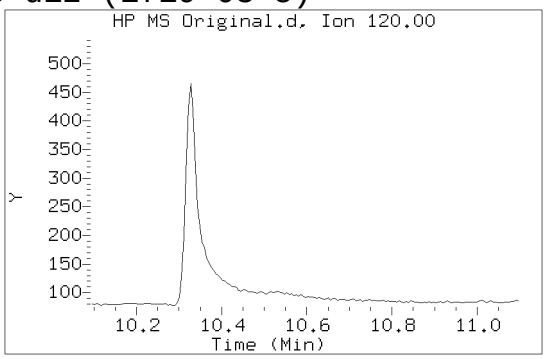


Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\16.D
Inj Date : 27-AUG-2022 15:35
InstruID : SV6.i
LabSampID : HS22080933-07

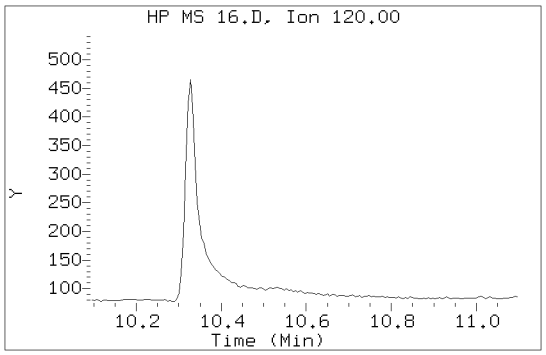
Chrysene-d12 (1719-03-5)

Reason Code:

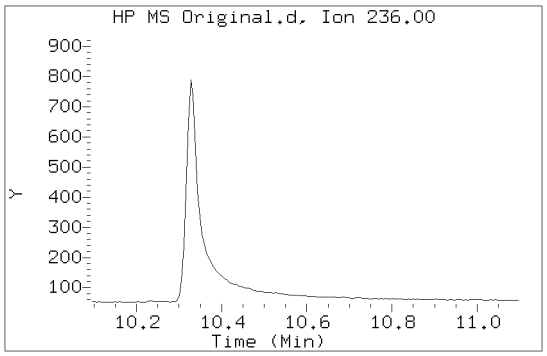
BEFORE
MASS
120
AREA
0
HEIGHT
0
27-Aug-2022
15:50
ALSHS
Server



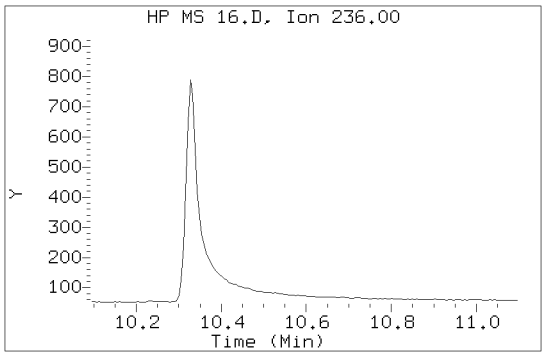
AFTER
MASS
120
AREA
0
HEIGHT
0
30-Aug-2022
16:02



BEFORE
MASS
236
AREA
0
HEIGHT
0
27-Aug-2022
15:50
ALSHS
Server



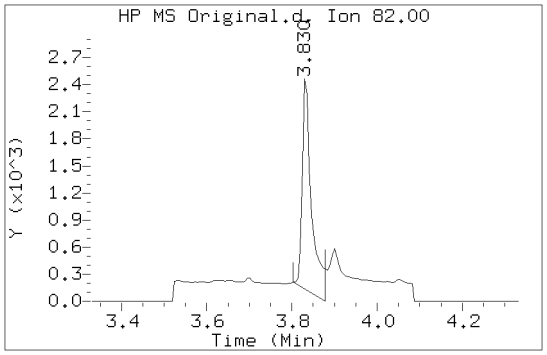
AFTER
MASS
236
AREA
0
HEIGHT
0
30-Aug-2022
16:02



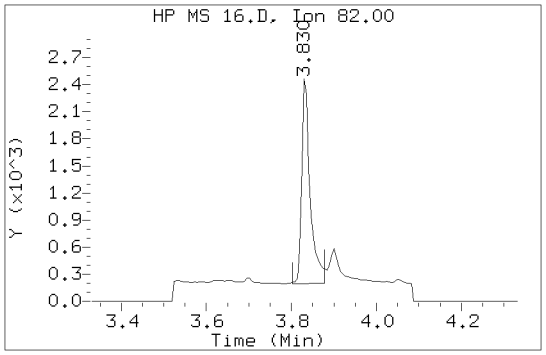
Nitrobenzene-d5 (4165-60-0)

Reason Code:

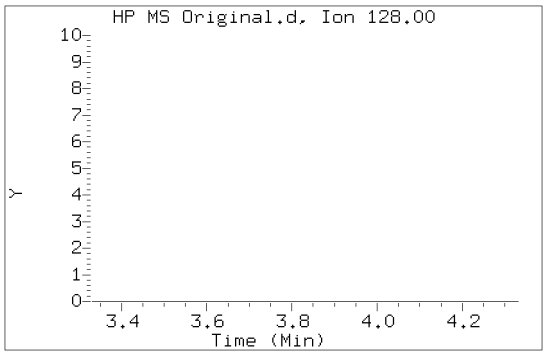
BEFORE
MASS
82
AREA
3601
HEIGHT
2329
27-Aug-2022
15:50
ALSHS
Server



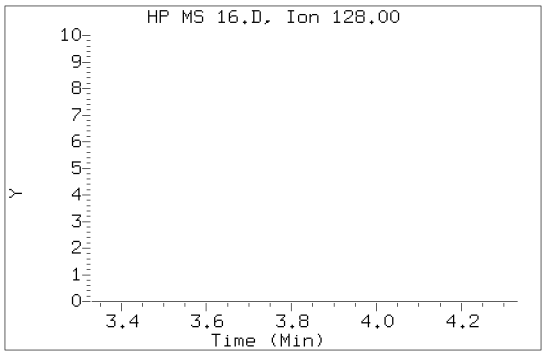
AFTER
MASS
82
AREA
3176
HEIGHT
2272
30-Aug-2022
16:02



BEFORE
MASS
128
AREA
0
HEIGHT
0
27-Aug-2022
15:50
ALSHS
Server



AFTER
MASS
128
AREA
0
HEIGHT
0
30-Aug-2022
16:02

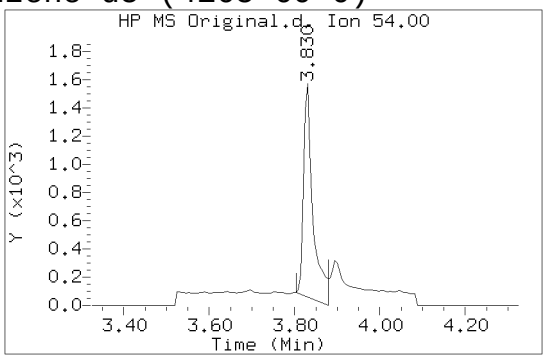


Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\16.D
Inj Date : 27-AUG-2022 15:35
InstruID : SV6.i
LabSampID : HS22080933-07

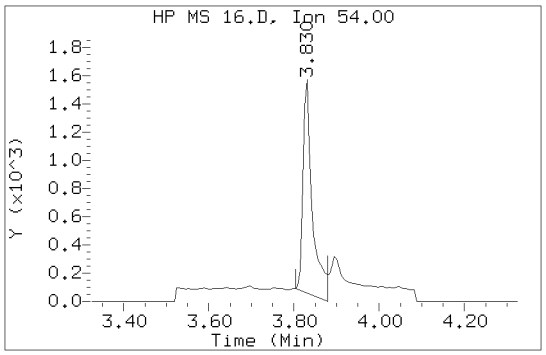
Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE
MASS
54
AREA
2288
HEIGHT
1511
27-Aug-2022
15:50
ALSHS
Server



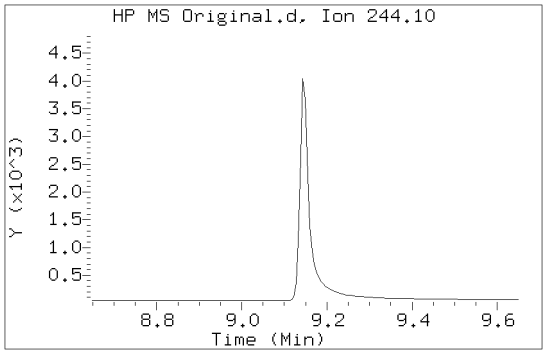
AFTER
MASS
54
AREA
2288
HEIGHT
1511
30-Aug-2022
16:02



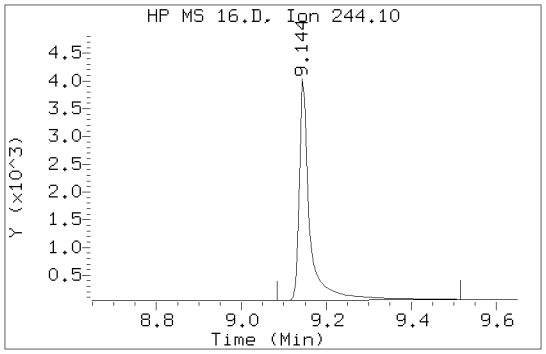
4-Terphenyl-d14 (1718-51-0)

Reason Code:

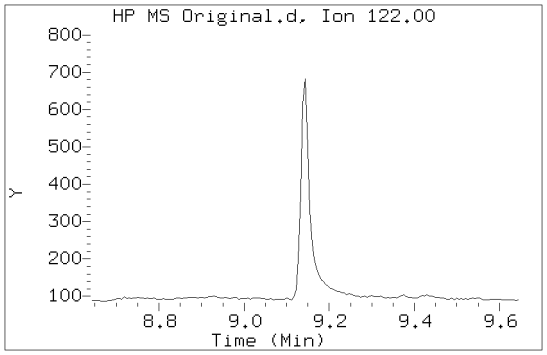
BEFORE
MASS
244.1
AREA
0
HEIGHT
0
27-Aug-2022
15:50
ALSHS
Server



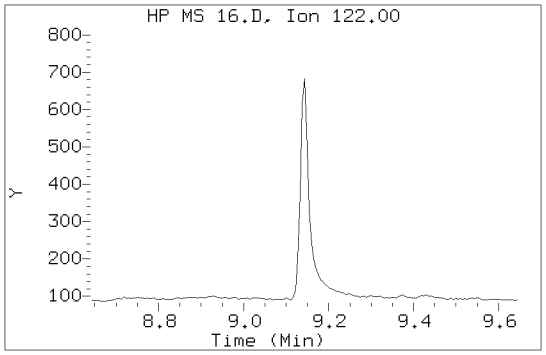
AFTER
MASS
244.1
AREA
6777
HEIGHT
3986
30-Aug-2022
16:02



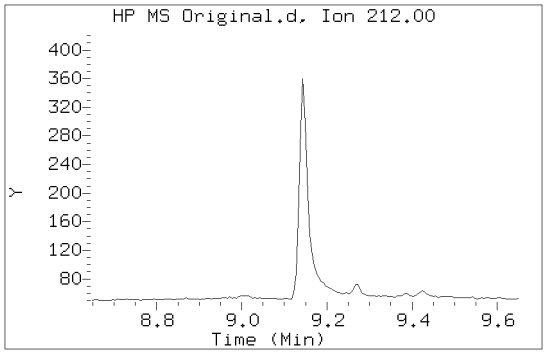
BEFORE
MASS
122
AREA
0
HEIGHT
0
27-Aug-2022
15:50
ALSHS
Server



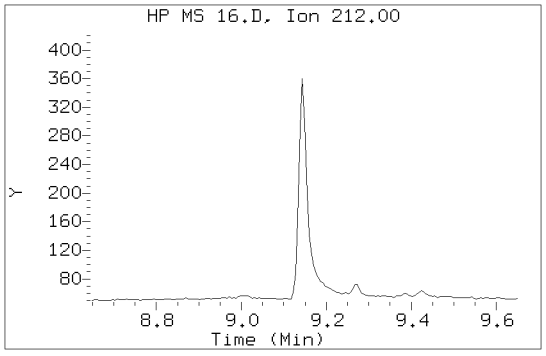
AFTER
MASS
122
AREA
0
HEIGHT
0
30-Aug-2022
16:02



BEFORE
MASS
212
AREA
0
HEIGHT
0
27-Aug-2022
15:50
ALSHS
Server



AFTER
MASS
212
AREA
0
HEIGHT
0
30-Aug-2022
16:02



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220827.b\32.D
Lab Smp Id: 1,4-DIOX-CCV Client Smp ID: 1,4-DIOX-CCV
Inj Date : 27-AUG-2022 20:22
Operator : LG Inst ID: SV6.i
Smp Info : 1,4-DIOX-0.08;1,4-DIOX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220827.b\DXSIM.m
Meth Date : 07-Sep-2022 13:04 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 12:56 Cal File: 009.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	3.368	3.368	(1.000)	4666	0.10000	(aM)
* 45 Naphthalene-d8	136	4.479	4.479	(1.000)	10334	0.10000	
$ 33 Nitrobenzene-d5	82	3.841	3.841	(0.858)	2519	0.08000	0.07312 (QM)
* 86 Acenaphthene-d10	164	6.143	6.143	(1.000)	6220	0.10000	(Q)
$ 69 2-Fluorobiphenyl	172	5.500	5.500	(0.895)	6879	0.08000	0.07105 (QM)
* 126 Phenanthrene-d10	188	7.589	7.589	(1.000)	8322	0.10000	
* 182 Chrysene-d12	240	10.343	10.343	(1.000)	4782	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.154	9.154	(0.885)	6628	0.08000	0.07372 (M)
* 198 Perylene-d12	264	12.335	12.335	(1.000)	3066	0.10000	
1 1,4-Dioxane	58	1.644	1.644	(0.488)	161	0.08000	0.08405 (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.

01141575

Data File: \\NAHSTWS005\Target\chem\SV6.i\220827.b\32.D

Date : 27-AUG-2022 20:22

Client ID: 1,4-DIOX-CCV

Instrument: SV6.i

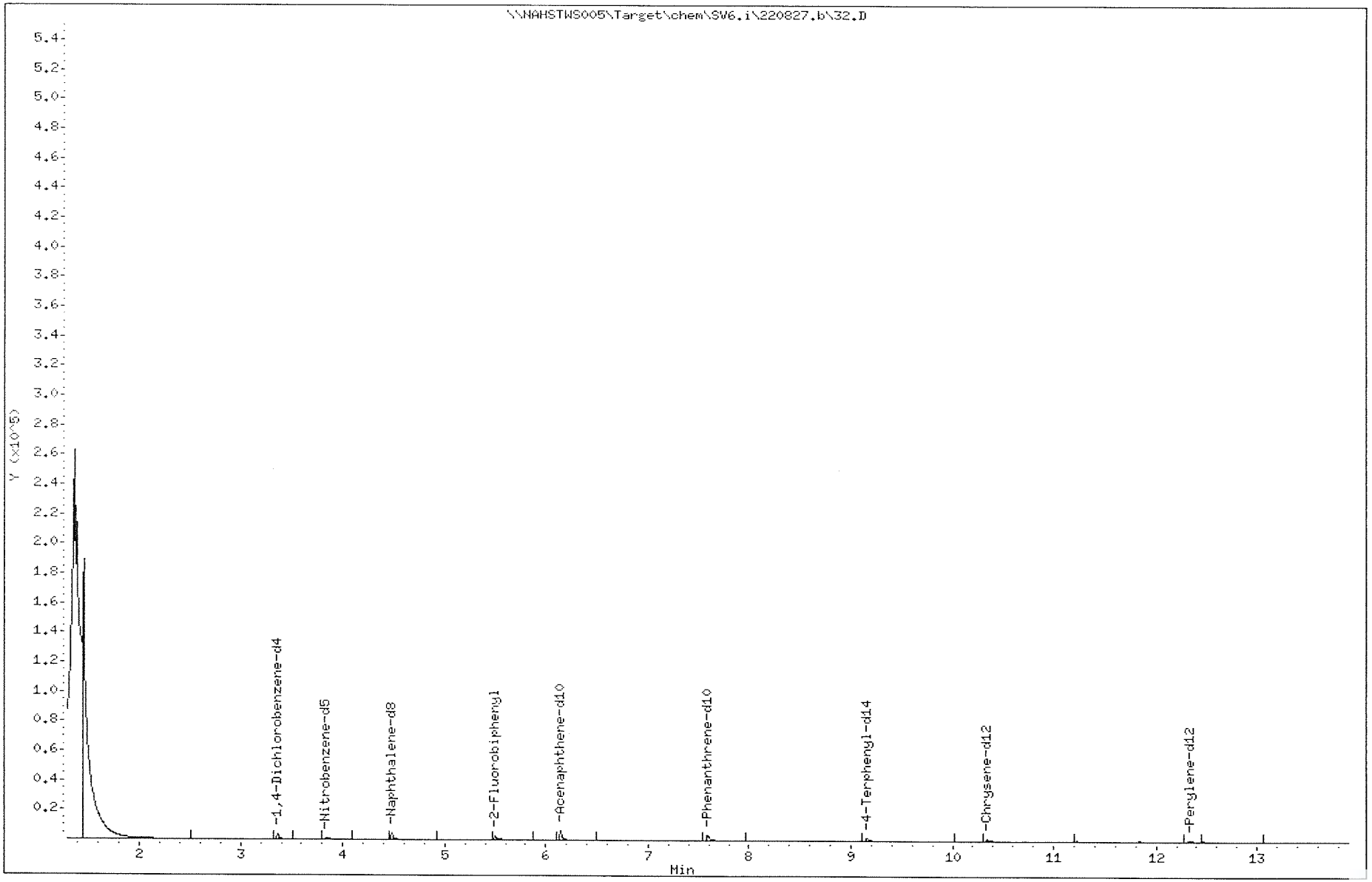
Sample Info: 1,4-DIOX-0.08;1,4-DIOX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

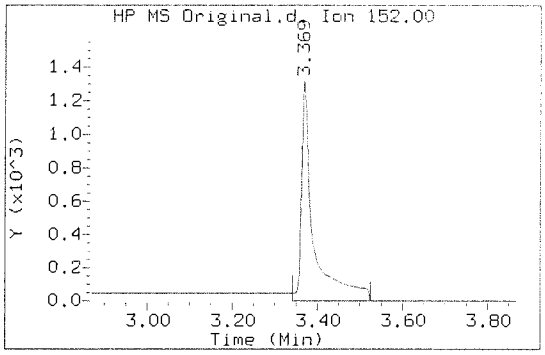


Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\32.D
Inj Date : 27-AUG-2022 20:22
InstruID : SV6.i
LabSampID : 1,4-DIOX-CCV

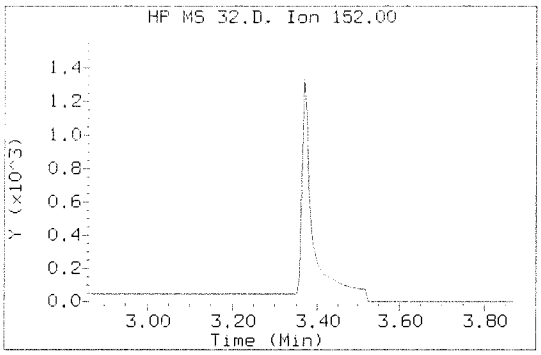
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

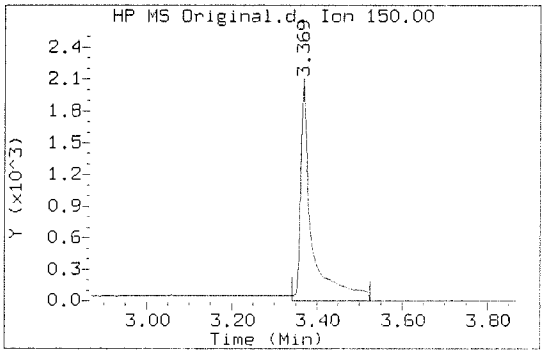
BEFORE
MASS
152
AREA
2574
HEIGHT
1329
27-Aug-2022
20:37
ALSHS
Server



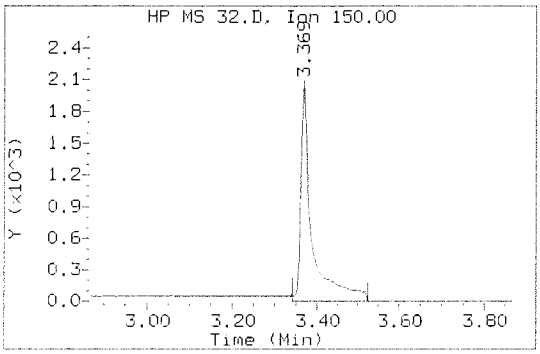
AFTER
MASS
152
AREA
4666
HEIGHT
1329
07-Sep-2022
13:04
ALSHS
Ser



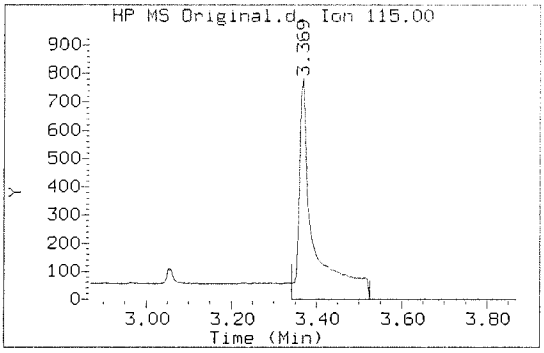
BEFORE
MASS
150
AREA
3781
HEIGHT
2100
27-Aug-2022
20:37
ALSHS
Server



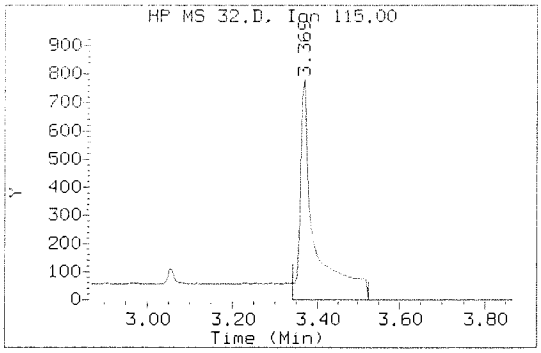
AFTER
MASS
150
AREA
3781
HEIGHT
2100
07-Sep-2022
13:04
ALSHS
Ser



BEFORE
MASS
115
AREA
1839
HEIGHT
782
27-Aug-2022
20:37
ALSHS
Server



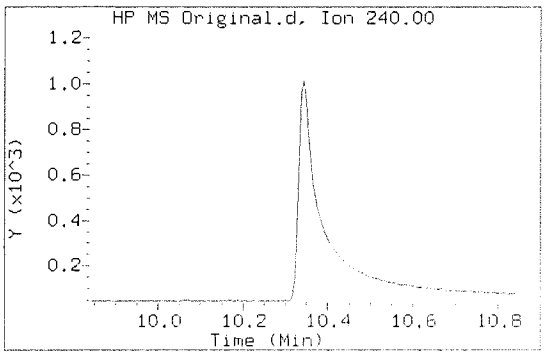
AFTER
MASS
115
AREA
1839
HEIGHT
782
07-Sep-2022
13:04
ALSHS
Ser



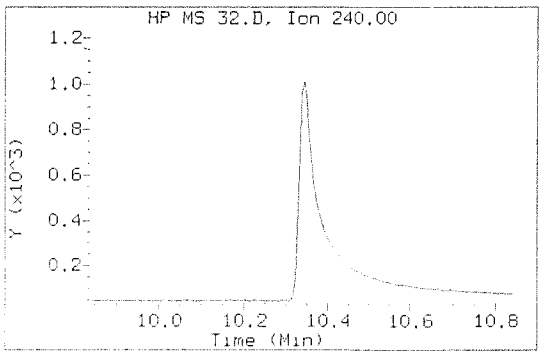
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
0
HEIGHT
0
27-Aug-2022
20:37
ALSHS
Server



AFTER
MASS
240
AREA
4782
HEIGHT
968
07-Sep-2022
13:04
ALSHS
Ser

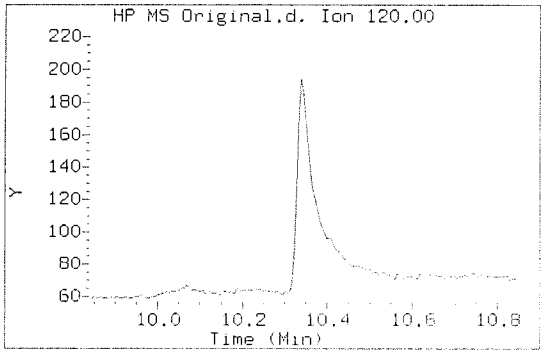


Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\32.D
Inj Date : 27-AUG-2022 20:22
InstruID : SV6.i
LabSampID : 1,4-DIOX-CCV

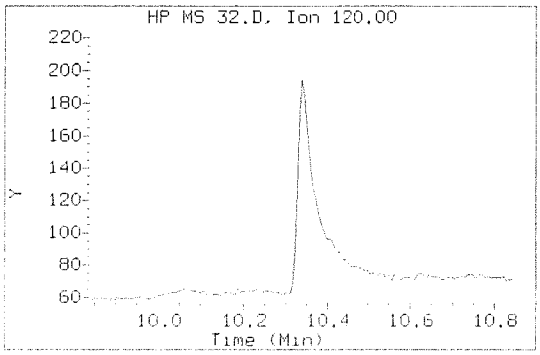
Chrysene-d12 (1719-03-5)

Reason Code:

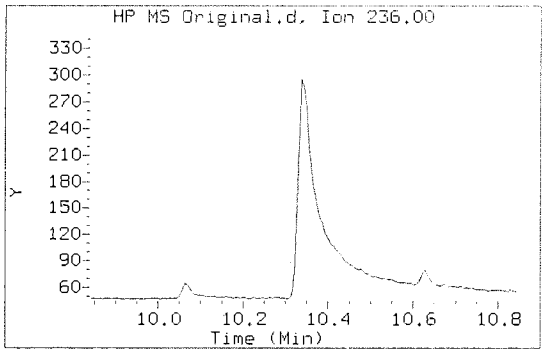
BEFORE
MASS
120
AREA
0
HEIGHT
0
27-Aug-2022
20:37
ALSHS
Server



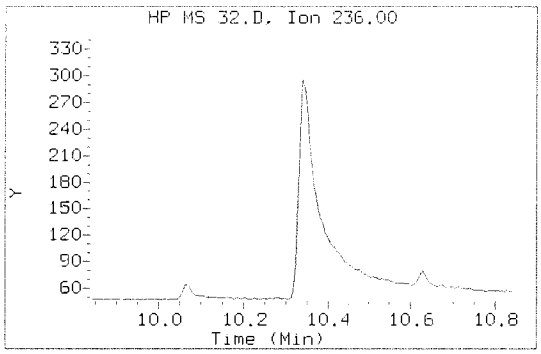
AFTER
MASS
120
AREA
0
HEIGHT
0
07-Sep-2022
13:04
ALSHS
Ser



BEFORE
MASS
236
AREA
0
HEIGHT
0
27-Aug-2022
20:37
ALSHS
Server



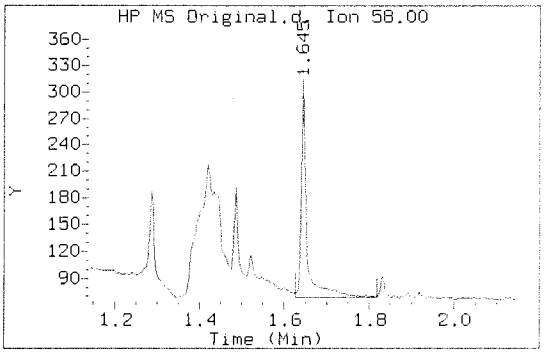
AFTER
MASS
236
AREA
0
HEIGHT
0
07-Sep-2022
13:04
ALSHS
Ser



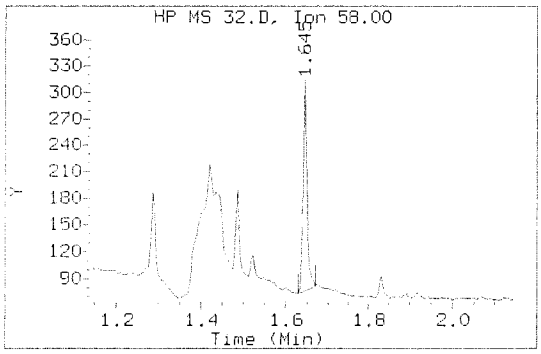
1,4-Dioxane ()

Reason Code:

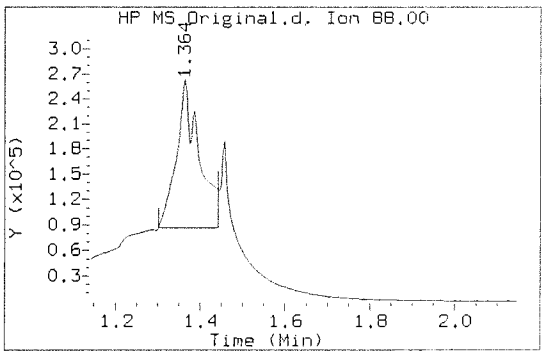
BEFORE
MASS
58
AREA
227
HEIGHT
246
27-Aug-2022
20:37
ALSHS
Server



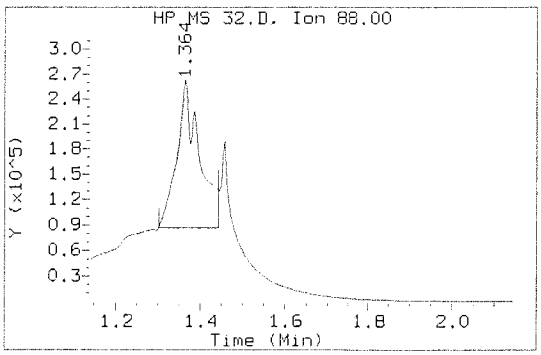
AFTER
MASS
58
AREA
101
HEIGHT
[illegible]
07-Sep-2022
13:04
ALSHS
Ser



BEFORE
MASS
88
AREA
645812
HEIGHT
175512
27-Aug-2022
20:37
ALSHS
Server



AFTER
MASS
88
AREA
645812
HEIGHT
175512
07-Sep-2022
13:04
ALSHS
Ser

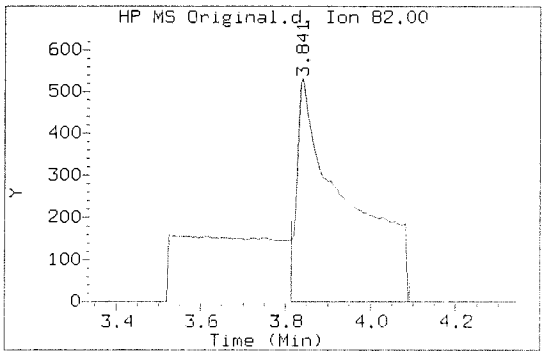


Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\32.D
Inj Date : 27-AUG-2022 20:22
InstruID : SV6.i
LabSampID : 1,4-DIOX-CCV

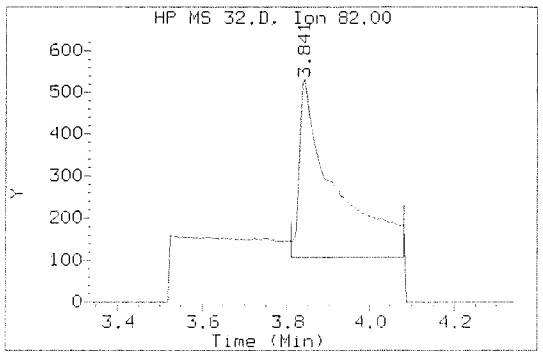
Nitrobenzene-d5 (4165-60-0)

Reason Code:

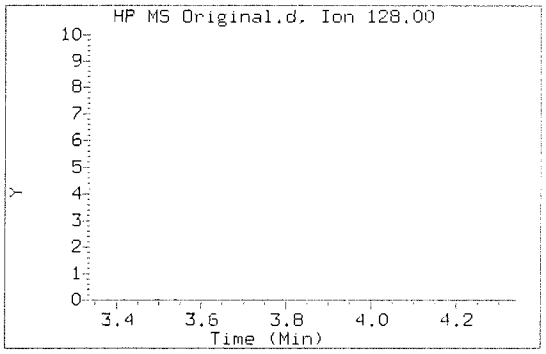
BEFORE
MASS
82
AREA
4254
HEIGHT
530
27-Aug-2022
20:37
ALSHS
Server



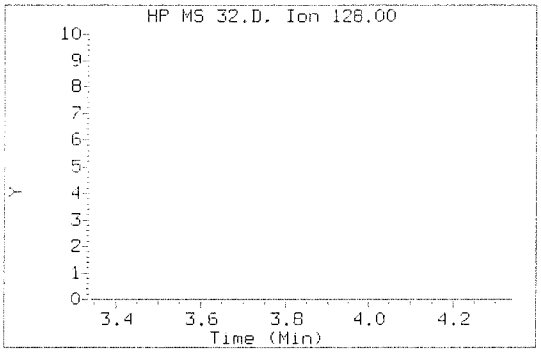
AFTER
MASS
82
AREA
2519
HEIGHT
422
07-Sep-2022
13:04
ALSHS
Ser



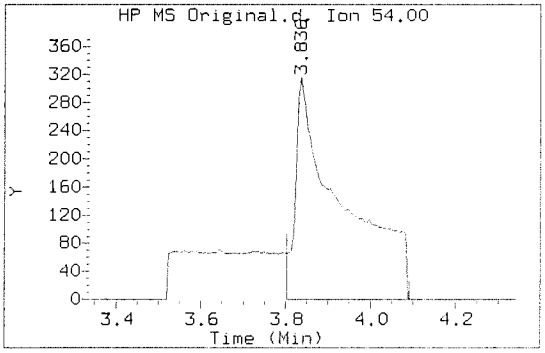
BEFORE
MASS
128
AREA
0
HEIGHT
0
27-Aug-2022
20:37
ALSHS
Server



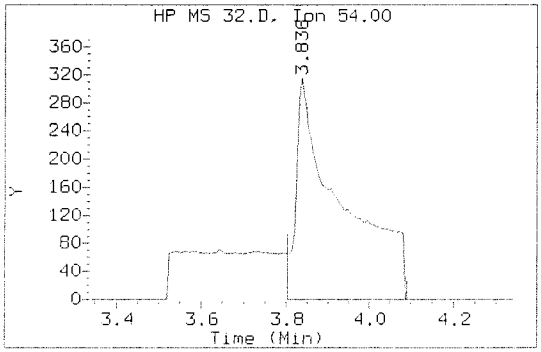
AFTER
MASS
128
AREA
0
HEIGHT
0
07-Sep-2022
13:04
ALSHS
Ser



BEFORE
MASS
54
AREA
2375
HEIGHT
316
27-Aug-2022
20:37
ALSHS
Server



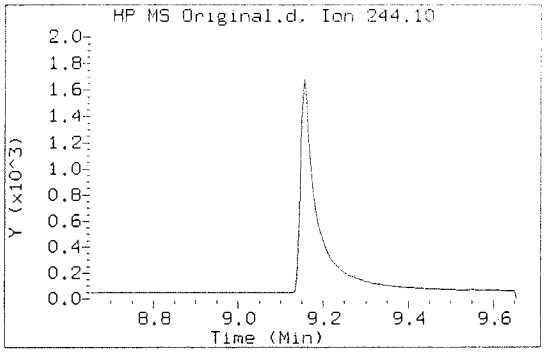
AFTER
MASS
54
AREA
2375
HEIGHT
316
07-Sep-2022
13:04
ALSHS
Ser



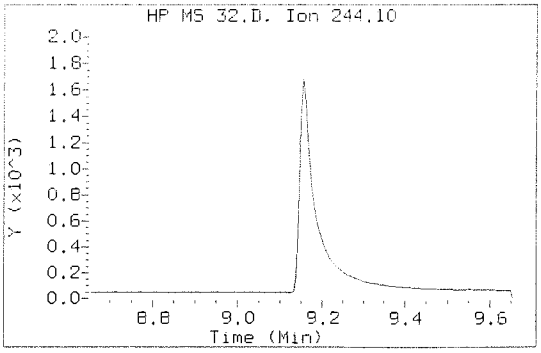
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
0
HEIGHT
0
27-Aug-2022
20:37
ALSHS
Server



AFTER
MASS
244.1
AREA
6628
HEIGHT
1654
07-Sep-2022
13:04
ALSHS
Ser



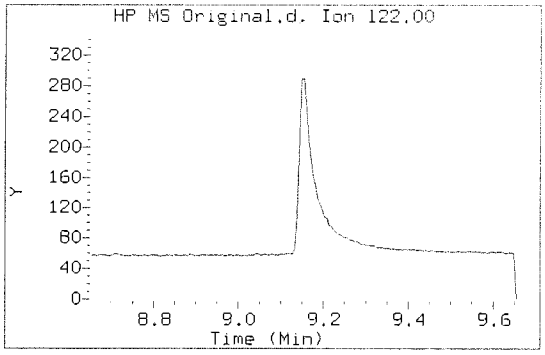
Data File : \\NAHSTWS005\Target\chem\SV6.i\220827.b\32.D
Inj Date : 27-AUG-2022 20:22
InstruID : SV6.i
LabSampID : 1,4-DIOX-CCV

4-Terphenyl-d14 (1718-51-0)

Reason Code:

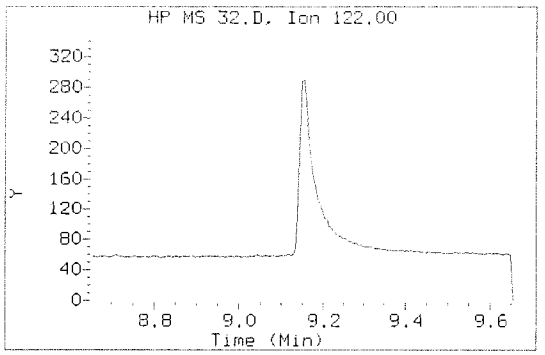
BEFORE

MASS
122
AREA
0
HEIGHT
0
27-Aug-2022
20:37
ALSHS
Server



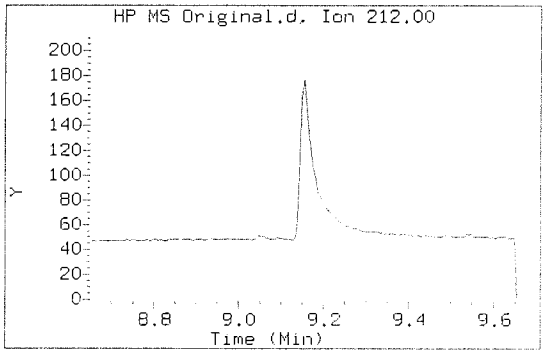
AFTER

MASS
122
AREA
0
HEIGHT
0
07-Sep-2022
13:04
ALSHS
Ser



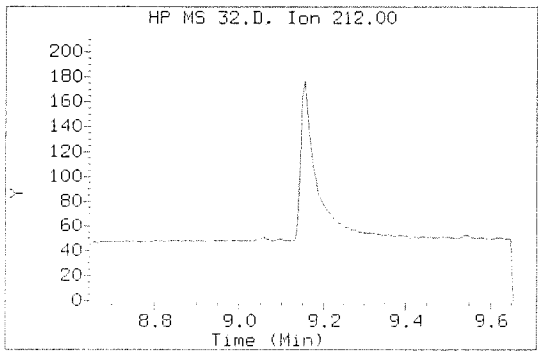
BEFORE

MASS
212
AREA
0
HEIGHT
0
27-Aug-2022
20:37
ALSHS
Server



AFTER

MASS
212
AREA
0
HEIGHT
0
07-Sep-2022
13:04
ALSHS
Ser

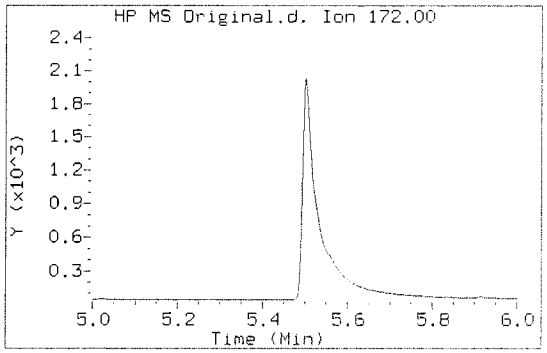


2-Fluorobiphenyl (321-60-8)

Reason Code:

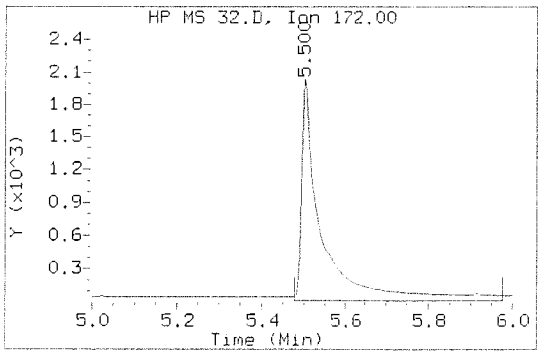
BEFORE

MASS
172
AREA
0
HEIGHT
0
27-Aug-2022
20:37
ALSHS
Server



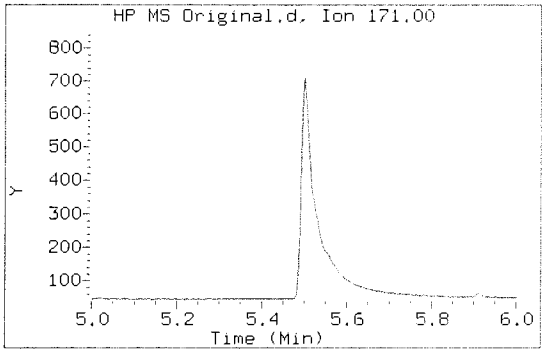
AFTER

MASS
172
AREA
6879
HEIGHT
2021
07-Sep-2022
13:04
ALSHS
Ser



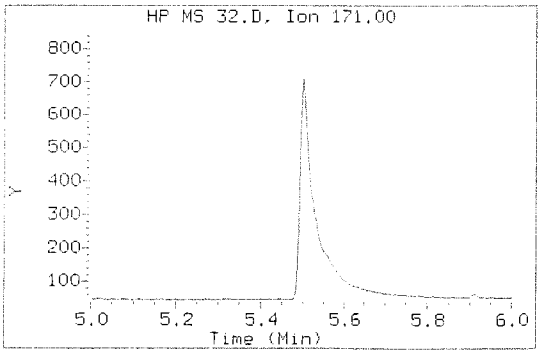
BEFORE

MASS
171
AREA
0
HEIGHT
0
27-Aug-2022
20:37
ALSHS
Server



AFTER

MASS
171
AREA
0
HEIGHT
0
07-Sep-2022
13:04
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\SV6.i\220829.b\01.D

Date : 29-AUG-2022 09:25

Client ID: DFTPP

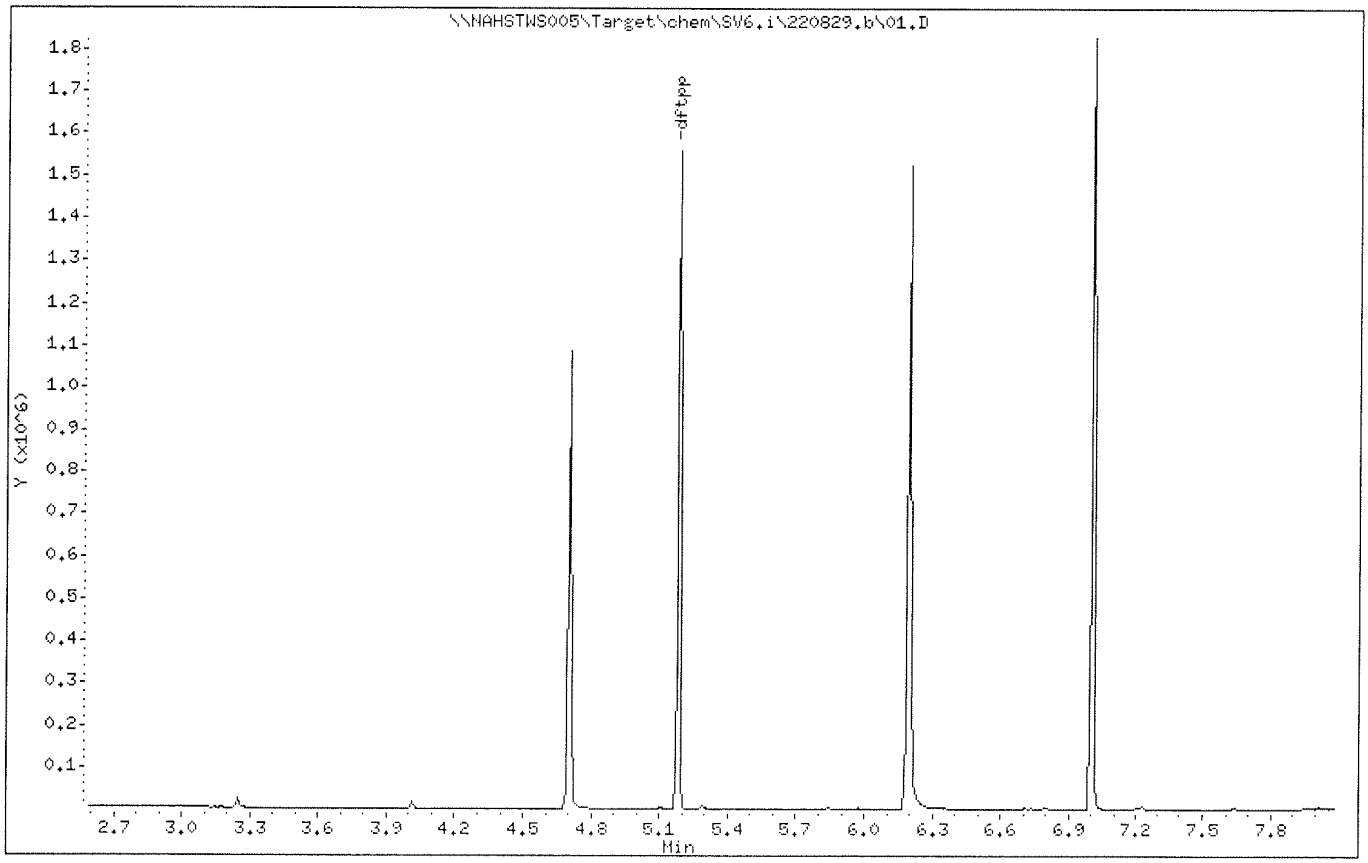
Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\SV6.i\220829.b\01.D

Date : 29-AUG-2022 09:25

Client ID: DFTPP

Instrument: SV6.i

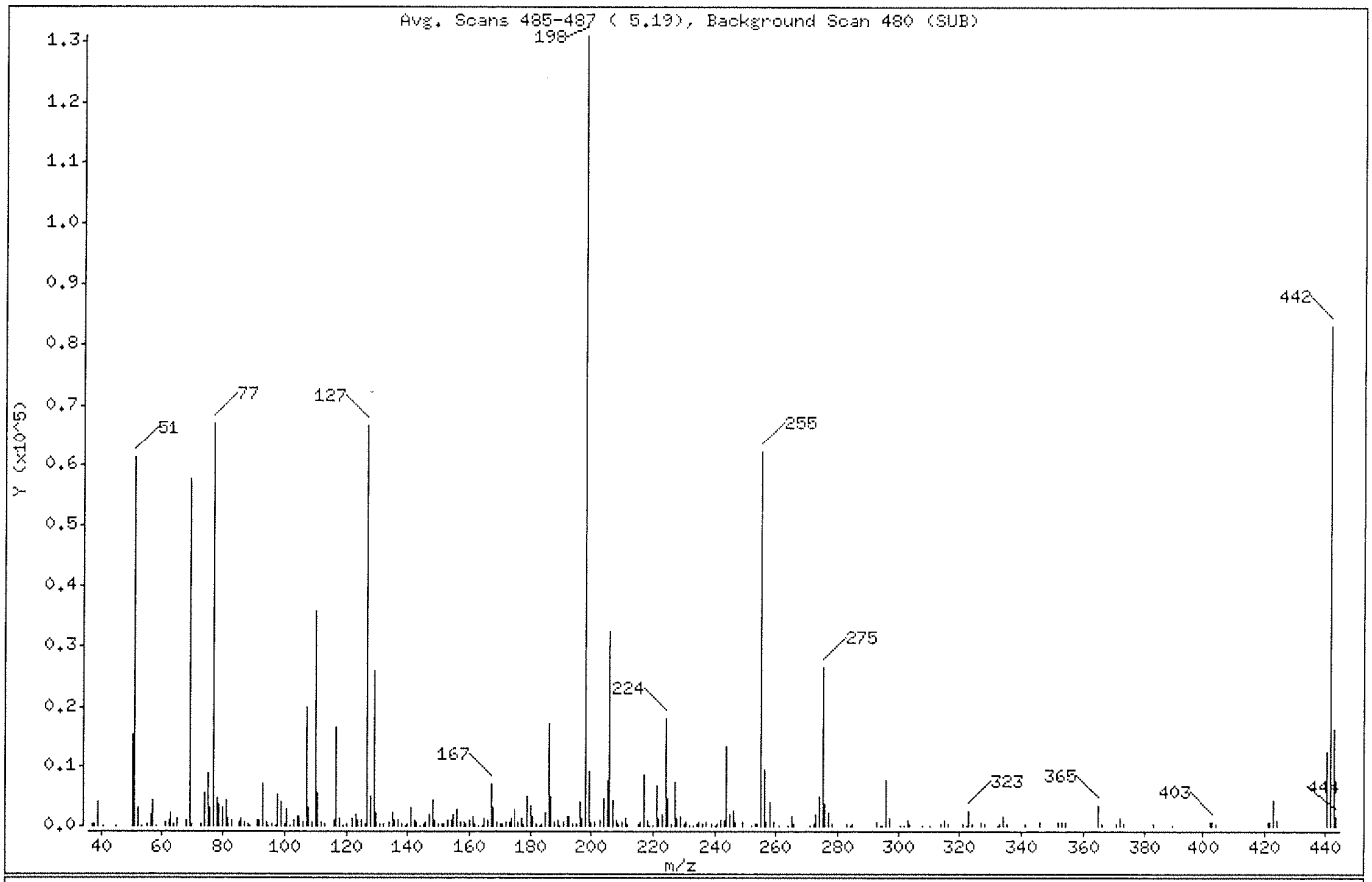
Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	46.73
68	Less than 2.00% of mass 69	0.60 (1.37)
69	Mass 69 relative abundance	43.89
70	Less than 2.00% of mass 69	0.20 (0.45)
127	10.00 - 80.00% of mass 198	50.76
197	Less than 2.00% of mass 198	0.85
199	5.00 - 9.00% of mass 198	6.88
275	10.00 - 60.00% of mass 198	20.20
365	1.00 - 100.00% of mass 198	2.63
441	Present, but less than mass 443	9.49
442	50.00 - 150.00% of mass 198	63.46
443	15.00 - 24.00% of mass 442	12.38 (19.50)

Data File: \\NAHSTWS005\Target\chem\SV6.i\220829.b\01.D

Date : 29-AUG-2022 09:25

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: Avg. Scans 485-487 (5.19), Background Scan 480 (SUB)
Location of Maximum: 198.00
Number of points: 257

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	186	122.00	1188	188.00	468	261.00	57
38.00	271	123.00	1840	189.00	984	264.00	68
39.00	3941	124.00	856	190.00	86	265.00	1489
41.00	131	125.00	947	191.00	526	266.00	308
45.00	64	126.00	320	192.00	1566	271.00	83
50.00	15324	127.00	66504	193.00	1610	272.00	223
51.00	61224	128.00	4839	194.00	321	273.00	1914
52.00	3059	129.00	25816	195.00	178	274.00	4847
53.00	53	130.00	2141	196.00	3934	275.00	26464
55.00	269	131.00	449	197.00	1116	276.00	3496
56.00	1709	132.00	187	198.00	131008	277.00	2104
57.00	4105	134.00	716	199.00	9010	278.00	383
58.00	145	135.00	2113	200.00	657	283.00	260
61.00	637	136.00	793	201.00	634	284.00	69
62.00	788	137.00	928	203.00	886	285.00	400
63.00	2202	138.00	161	204.00	4659	293.00	457
64.00	244	139.00	65	205.00	7635	294.00	57
65.00	1132	140.00	268	206.00	32560	295.00	61
68.00	788	141.00	3083	207.00	4074	296.00	7504
69.00	57496	142.00	1045	208.00	1022	297.00	1108
70.00	261	143.00	690	209.00	335	301.00	56
73.00	444	144.00	150	210.00	509	302.00	59
74.00	5482	145.00	152	211.00	1232	303.00	807
75.00	8836	146.00	549	212.00	162	304.00	226
76.00	3041	147.00	1699	215.00	357	308.00	55
77.00	66784	148.00	4093	216.00	739	310.00	50
78.00	4409	149.00	808	217.00	8441	314.00	390
79.00	3756	150.00	161	218.00	1054	315.00	833
80.00	3026	151.00	436	219.00	62	316.00	428
81.00	4271	152.00	211	220.00	58	321.00	236
82.00	1075	153.00	984	221.00	6494	322.00	55
83.00	1007	154.00	772	222.00	1210	323.00	2298
85.00	705	155.00	1725	223.00	1840	324.00	443
86.00	1297	156.00	2630	224.00	18080	327.00	453
87.00	596	157.00	527	225.00	4401	328.00	223

Data File: \\NAHSTWS005\Target\chem\SV6.i\220829.b\01.D

Date : 29-AUG-2022 09:25

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: Avg. Scans 485-487 (5.19), Background Scan 480 (SUB)
Location of Maximum: 198.00
Number of points: 257

m/z	Y	m/z	Y	m/z	Y	m/z	Y
88.00	171	158.00	612	226.00	448	332.00	67
89.00	58	159.00	441	227.00	7234	333.00	198
91.00	913	160.00	1002	228.00	1079	334.00	1450
92.00	1030	161.00	1551	229.00	1498	335.00	373
93.00	7012	162.00	406	230.00	158	341.00	315
94.00	475	163.00	56	231.00	628	346.00	514
95.00	101	164.00	133	232.00	51	352.00	728
96.00	295	165.00	1164	233.00	65	353.00	477
97.00	105	166.00	882	234.00	436	354.00	660
98.00	5266	167.00	6886	235.00	505	365.00	3444
99.00	3815	168.00	2865	236.00	370	366.00	406
100.00	368	169.00	519	237.00	535	371.00	153
101.00	2582	170.00	171	239.00	295	372.00	1146
102.00	123	171.00	217	240.00	146	373.00	283
103.00	766	172.00	576	241.00	417	383.00	319
104.00	1530	173.00	743	242.00	947	390.00	140
105.00	1542	174.00	1315	243.00	943	402.00	483
106.00	493	175.00	2621	244.00	13371	403.00	681
107.00	19760	176.00	726	245.00	1750	404.00	230
108.00	2980	177.00	1097	246.00	2448	421.00	580
109.00	455	178.00	396	247.00	458	422.00	497
110.00	35824	179.00	4767	249.00	467	423.00	4094
111.00	5377	180.00	3299	252.00	140	424.00	755
112.00	628	181.00	1535	253.00	340	441.00	12437
113.00	160	182.00	175	254.00	448	442.00	83144
116.00	976	183.00	64	255.00	61992	443.00	16213
117.00	16544	184.00	398	256.00	9206	444.00	1415
118.00	1116	185.00	2222	257.00	698		
119.00	115	186.00	17112	258.00	3796		
120.00	202	187.00	4838	259.00	621		

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220829.b\04.D
Lab Smp Id: 1 4-DIOX-CCV Client Smp ID: 1 4-DIOX-CCV
Inj Date : 29-AUG-2022 11:04
Operator : LG Inst ID: SV6.i
Smp Info : 1 4-DIOX-0.08;1 4-DIOX-0.08;2
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220829.b\DXSIM.m
Meth Date : 07-Sep-2022 13:08 Linh.Pham Quant Type: ISTD
Cal Date : 10-MAR-2022 12:56 Cal File: 009.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7122

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	3.319	3.324	(1.000)	6461	0.10000	(aM)
* 45 Naphthalene-d8	136	4.417	4.421	(1.000)	18105	0.10000	
$ 33 Nitrobenzene-d5	82	3.780	3.786	(0.856)	4652	0.08000	0.07708 (QM)
* 86 Acenaphthene-d10	164	6.080	6.081	(1.000)	10352	0.10000	(Q)
$ 69 2-Fluorobiphenyl	172	5.438	5.442	(0.894)	11751	0.08000	0.07292 (M)
* 126 Phenanthrene-d10	188	7.520	7.520	(1.000)	15296	0.10000	
* 182 Chrysene-d12	240	10.264	10.264	(1.000)	7293	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.091	9.091	(1.000)	10527	0.08000	0.07677
* 198 Perylene-d12	264	12.229	12.229	(1.000)	5301	0.10000	
1 1,4-Dioxane	58	1.637	1.645	(0.493)	246	0.08000	0.09274 (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.

01141585

Data File: \\NAHSTWS005\Target\chem\SV6.i\220829.b\04.D

Date : 29-AUG-2022 11:04

Client ID: 1 4-DIOX-CCV

Instrument: SV6.i

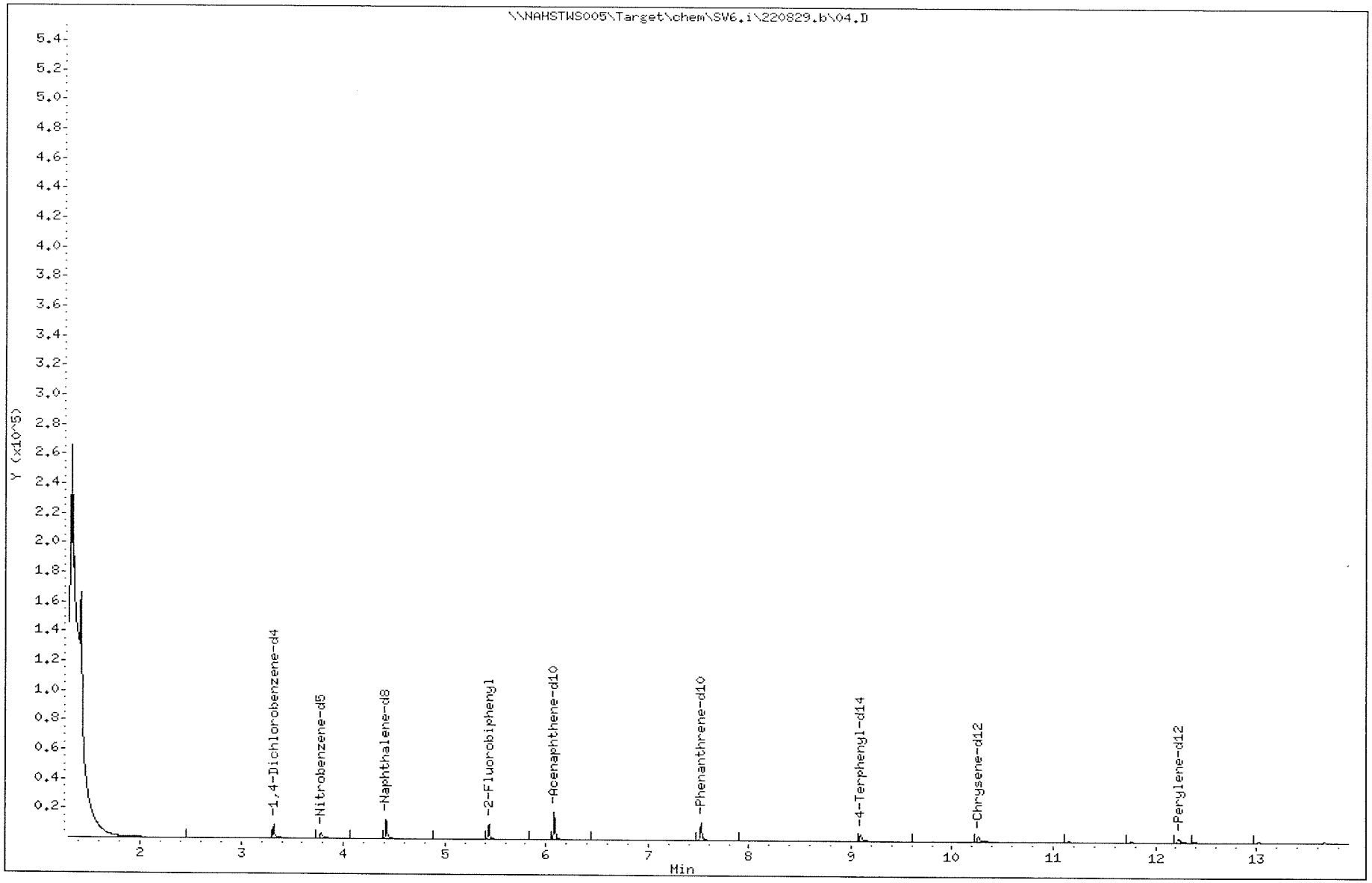
Sample Info: 1 4-DIOX-0.08;1 4-DIOX-0.08;2

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

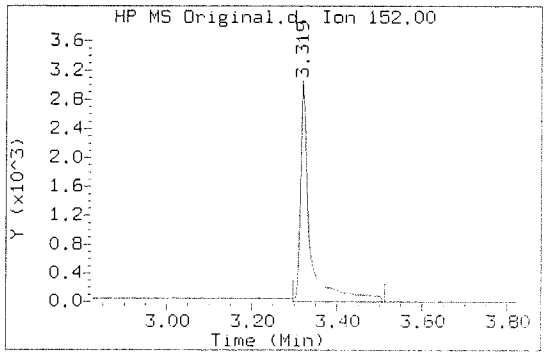


Data File : \\NAHSTWS005\Target\chem\SV6.i\220829.b\04.D
Inj Date : 29-AUG-2022 11:04
InstruID : SV6.i
LabSampID : 1 4-DIOX-CCV

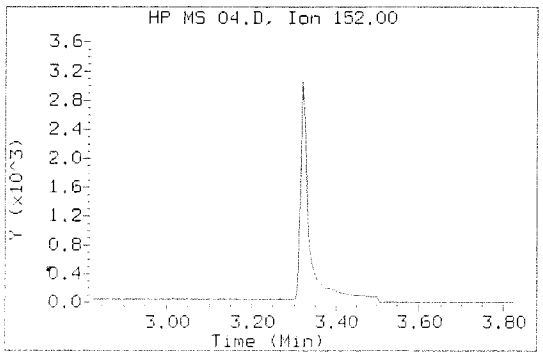
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

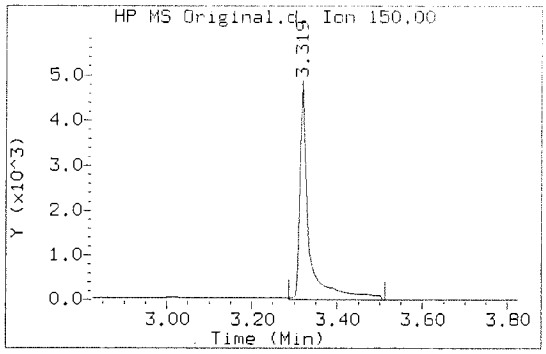
BEFORE
MASS
152
AREA
4763
HEIGHT
3062
29-Aug-2022
11:19
ALSHS
Server



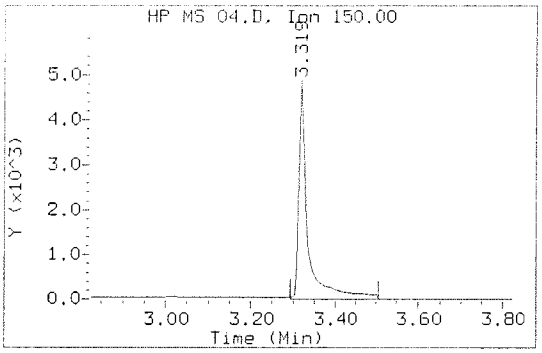
AFTER
MASS
152
AREA
6461
HEIGHT
3062
07-Sep-2022
13:09
ALSHS
Ser



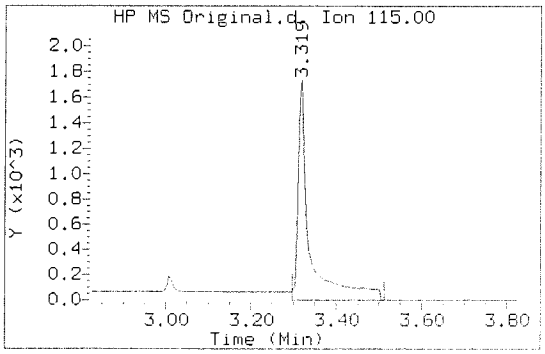
BEFORE
MASS
150
AREA
7214
HEIGHT
4893
29-Aug-2022
11:19
ALSHS
Server



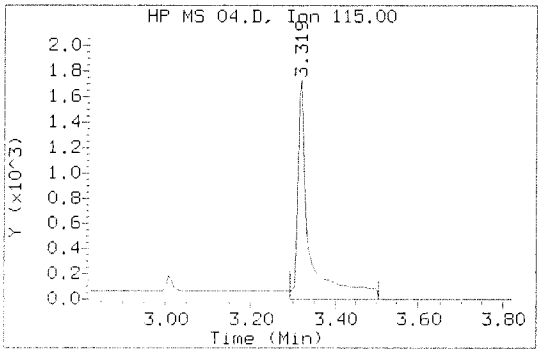
AFTER
MASS
150
AREA
7198
HEIGHT
4893
07-Sep-2022
13:09
ALSHS
Ser



BEFORE
MASS
115
AREA
3254
HEIGHT
1735
29-Aug-2022
11:19
ALSHS
Server



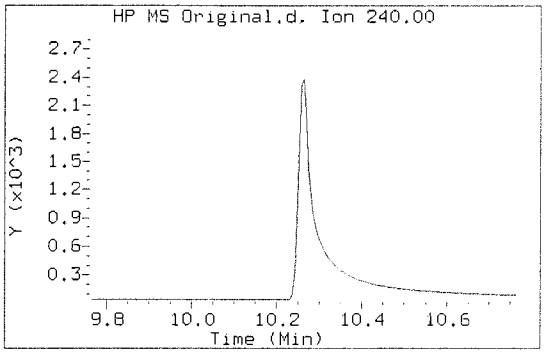
AFTER
MASS
115
AREA
3275
HEIGHT
1735
07-Sep-2022
13:09
ALSHS
Ser



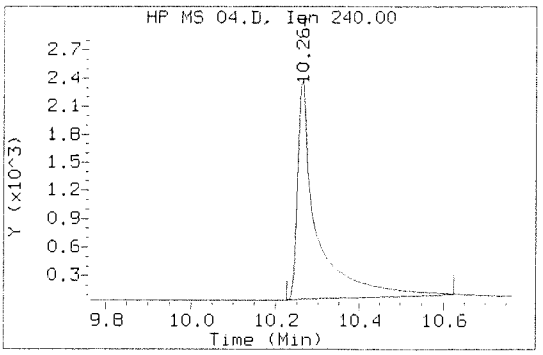
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
0
HEIGHT
0
29-Aug-2022
11:19
ALSHS
Server



AFTER
MASS
240
AREA
7293
HEIGHT
2324
07-Sep-2022
13:09
ALSHS
Ser

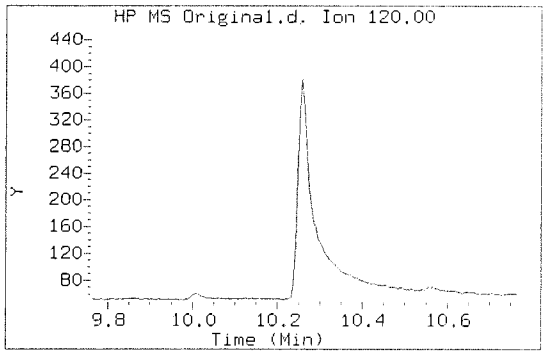


Data File : \\NAHSTWS005\Target\chem\SV6.i\220829.b\04.D
Inj Date : 29-AUG-2022 11:04
InstruID : SV6.i
LabSampID : 1 4-DIOX-CCV

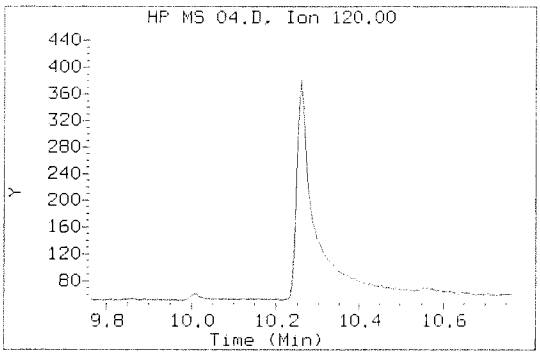
Chrysene-d12 (1719-03-5)

Reason Code:

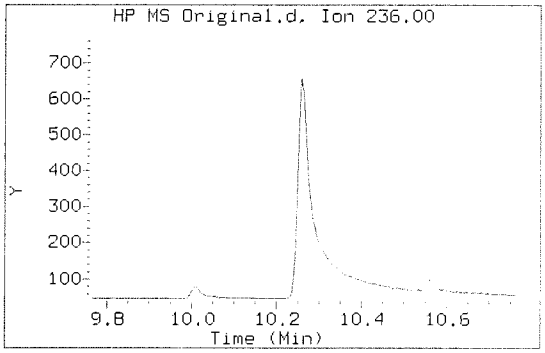
BEFORE
MASS
120
AREA
0
HEIGHT
0
29-Aug-2022
11:19
ALSHS
Server



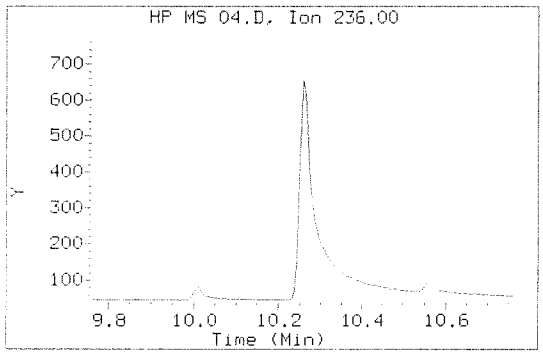
AFTER
MASS
120
AREA
0
HEIGHT
0
07-Sep-2022
13:09
ALSHS
Ser



BEFORE
MASS
236
AREA
0
HEIGHT
0
29-Aug-2022
11:19
ALSHS
Server



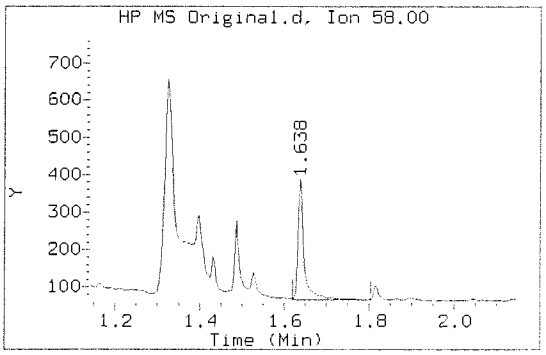
AFTER
MASS
236
AREA
0
HEIGHT
0
07-Sep-2022
13:09
ALSHS
Ser



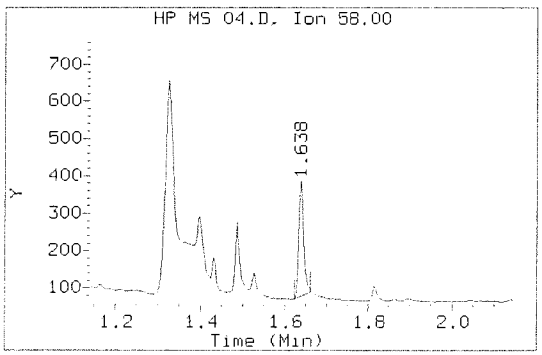
1,4-Dioxane ()

Reason Code:

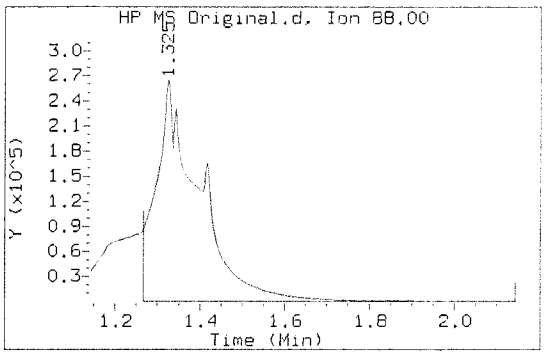
BEFORE
MASS
58
AREA
329
HEIGHT
323
29-Aug-2022
11:19
ALSHS
Server



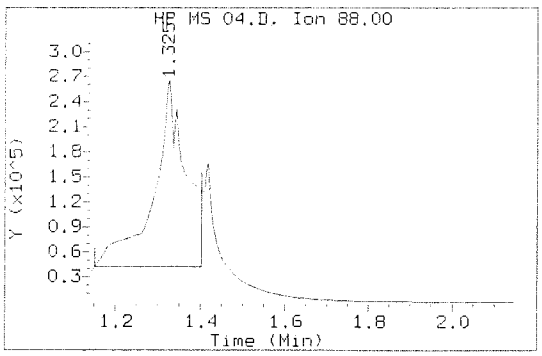
AFTER
MASS
58
AREA
246
HEIGHT
311
07-Sep-2022
13:09
ALSHS
Ser



BEFORE
MASS
88
AREA
1869118
HEIGHT
265239
29-Aug-2022
11:19
ALSHS
Server



AFTER
MASS
88
AREA
1172411
HEIGHT
223393
07-Sep-2022
13:09
ALSHS
Ser

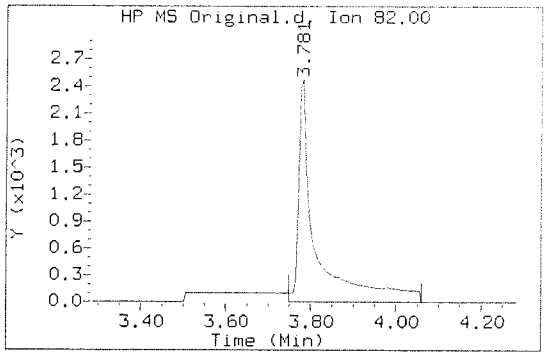


Data File : \\NAHSTWS005\Target\chem\SV6.i\220829.b\04.D
Inj Date : 29-AUG-2022 11:04
InstruID : SV6.i
LabSampID : 1 4-DIOX-CCV

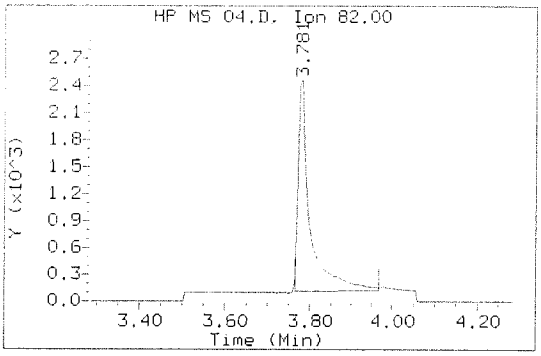
Nitrobenzene-d5 (4165-60-0)

Reason Code:

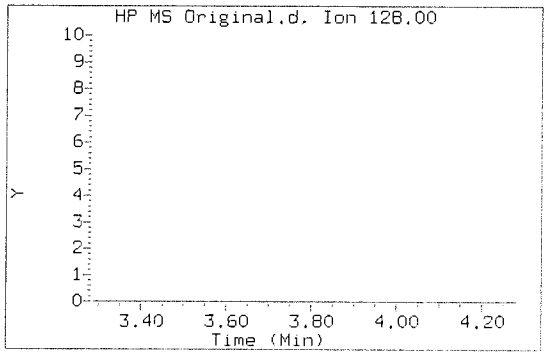
BEFORE
MASS
82
AREA
6916
HEIGHT
2472
29-Aug-2022
11:19
ALSHS
Server



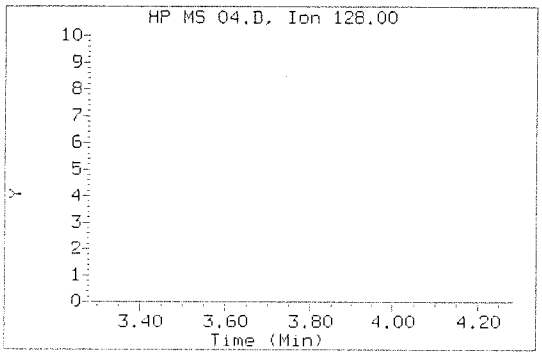
AFTER
MASS
82
AREA
4652
HEIGHT
2358
07-Sep-2022
13:09
ALSHS
Ser



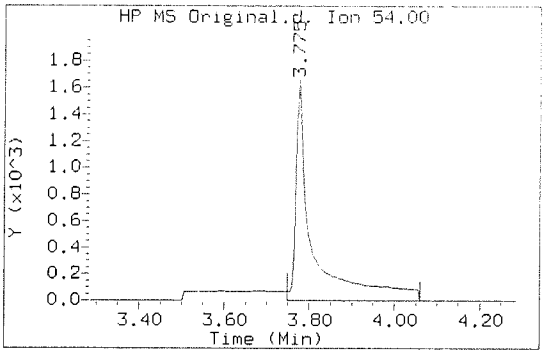
BEFORE
MASS
128
AREA
0
HEIGHT
0
29-Aug-2022
11:19
ALSHS
Server



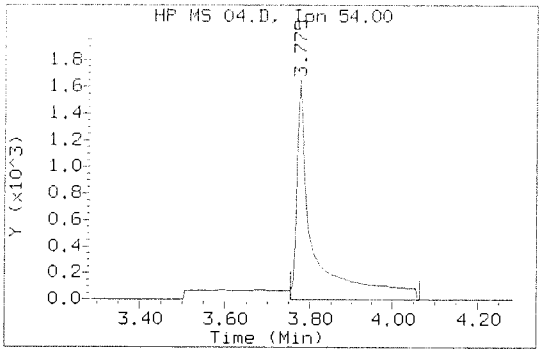
AFTER
MASS
128
AREA
0
HEIGHT
0
07-Sep-2022
13:09
ALSHS
Ser



BEFORE
MASS
54
AREA
4515
HEIGHT
1658
29-Aug-2022
11:19
ALSHS
Server



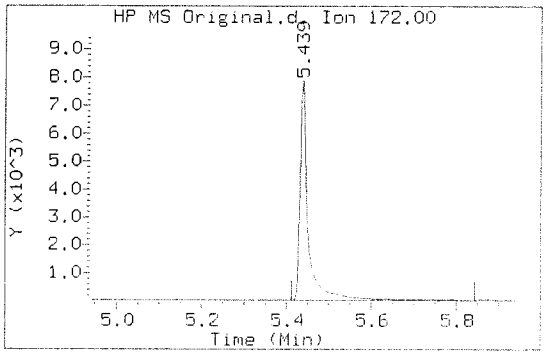
AFTER
MASS
54
AREA
4469
HEIGHT
1658
07-Sep-2022
13:09
ALSHS
Ser



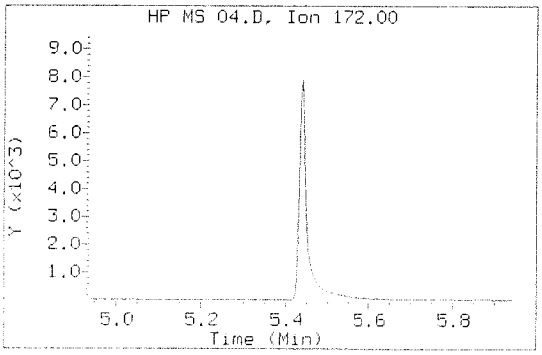
2-Fluorobiphenyl (321-60-8)

Reason Code:

BEFORE
MASS
172
AREA
10700
HEIGHT
7867
29-Aug-2022
11:19
ALSHS
Server



AFTER
MASS
172
AREA
11751
HEIGHT
7893
07-Sep-2022
13:09
ALSHS
Ser



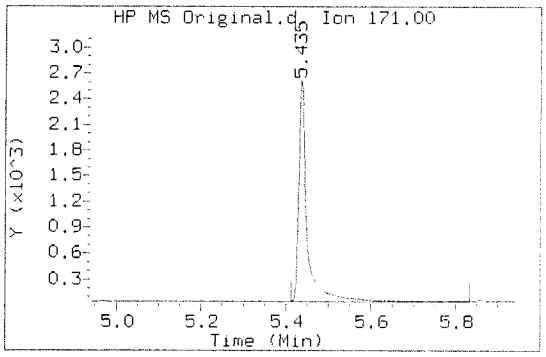
Data File : \\NAHSTWS005\Target\chem\SV6.i\220829.b\04.D
Inj Date : 29-AUG-2022 11:04
InstruID : SV6.i
LabSampID : 1 4-DIOX-CCV

2-Fluorobiphenyl (321-60-8)

Reason Code:

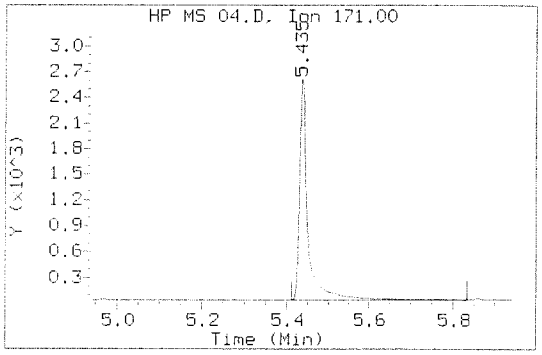
BEFORE

MASS
171
AREA
3554
HEIGHT
2572
29-Aug-2022
11:19
ALSHS
Server



AFTER

MASS
171
AREA
3554
HEIGHT
2572
07-Sep-2022
13:07
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\SV6.i\220829.b\18.D Page 1
Report Date: 30-Aug-2022 16:13

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220829.b\18.D
Lab Smp Id: HS22080933-02
Inj Date : 29-AUG-2022 15:33
Operator : LG Inst ID: SV6.i
Smp Info : HS22080933-02X1H
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\220829.b\DXSIM.m
Meth Date : 29-Aug-2022 17:54 jjuarez Quant Type: ISTD
Cal Date : 10-MAR-2022 12:56 Cal File: 009.D
Als bottle: 18
Dil Factor: 100.00000
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	100.000	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	3.319	3.324	(1.000)	4661	0.10000		(aM)
* 45 Naphthalene-d8	136	4.421	4.421	(1.000)	9832	0.10000		
* 86 Acenaphthene-d10	164	6.086	6.081	(1.000)	5855	0.10000		(Q)
* 126 Phenanthrene-d10	188	7.526	7.520	(1.000)	8667	0.10000		
* 182 Chrysene-d12	240	10.264	10.264	(1.000)	3906	0.10000		(M)
* 198 Perylene-d12	264	12.229	12.229	(1.000)	3730	0.10000		(M)
1 1,4-Dioxane	58	1.619	1.645	(0.488)	825	0.43115	43.12	(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.

01141591

Data File: \\NAHSTWS005\Target\chem\SV6.i\220829.b\18.D

Date : 29-AUG-2022 15:33

Client ID:

Instrument: SV6.i

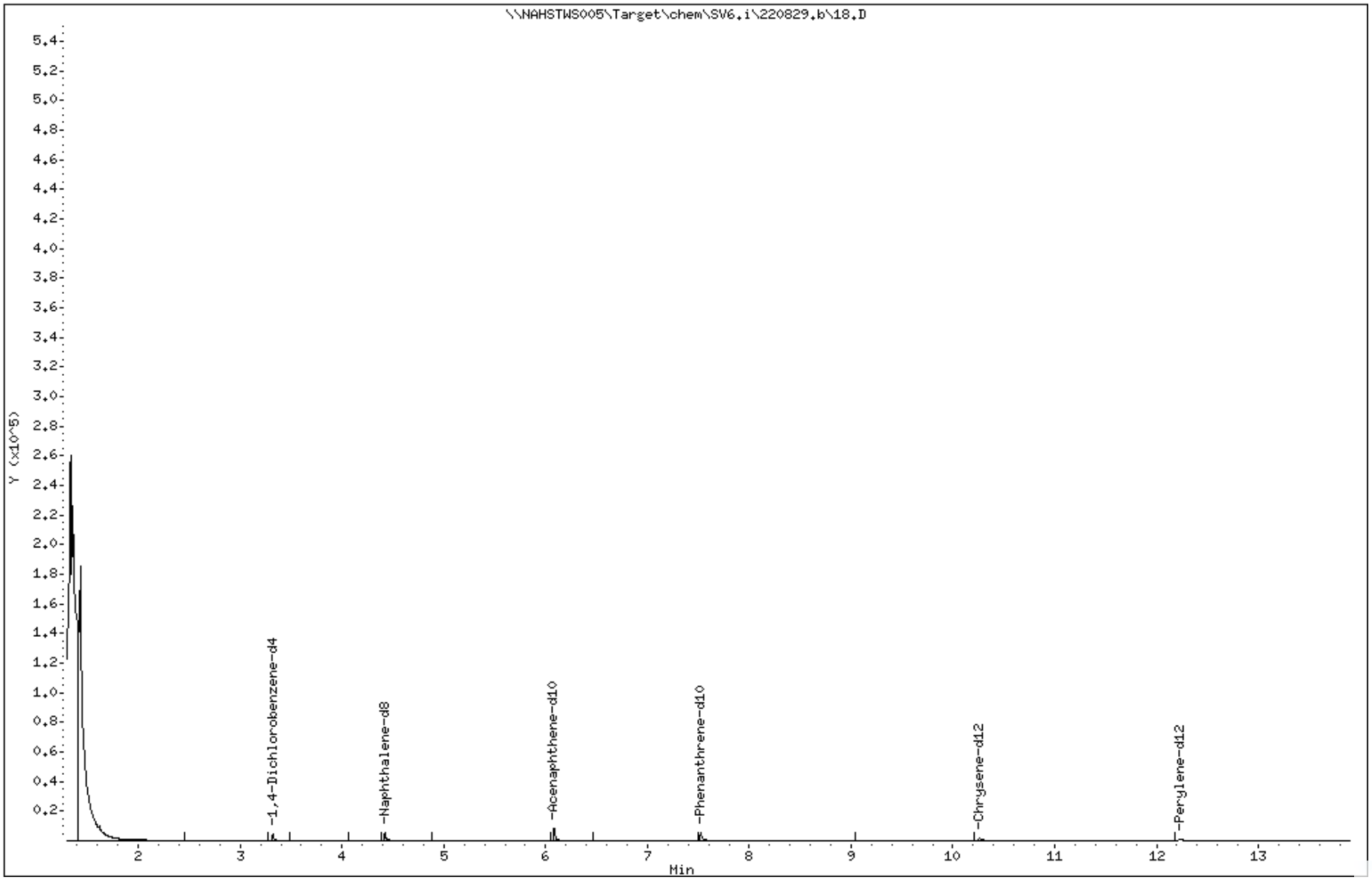
Sample Info: HS22080933-02X1H

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\220829.b\18.D

Date : 29-AUG-2022 15:33

Client ID:

Instrument: SV6.i

Sample Info: HS22080933-02X1H

Purge Volume: 1000.0

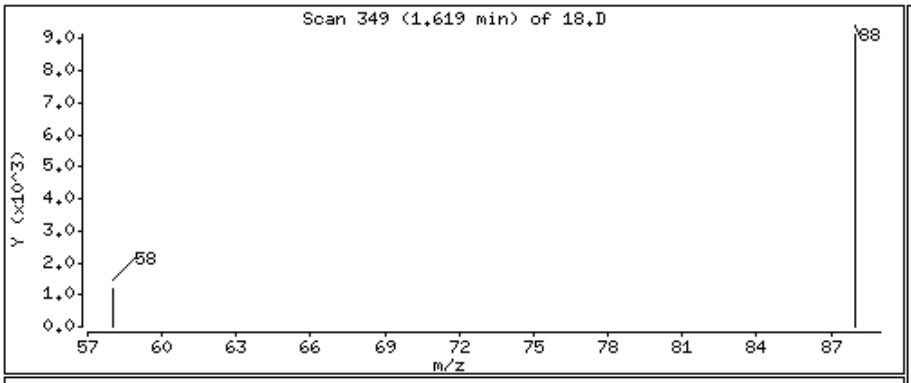
Operator: LG

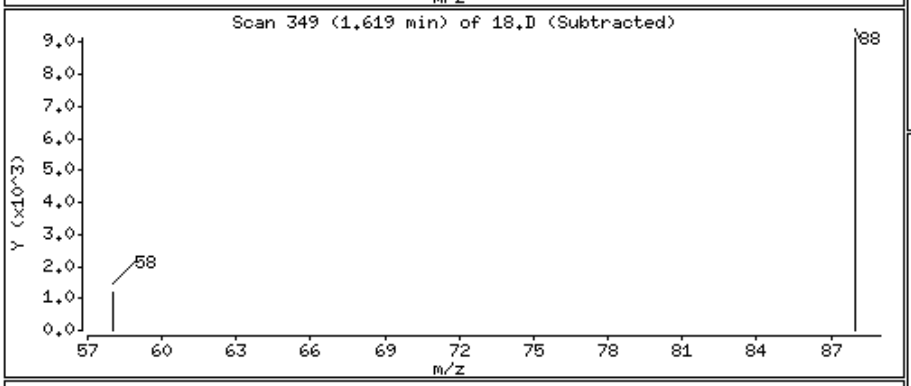
Column phase: RTX-5SIL MS

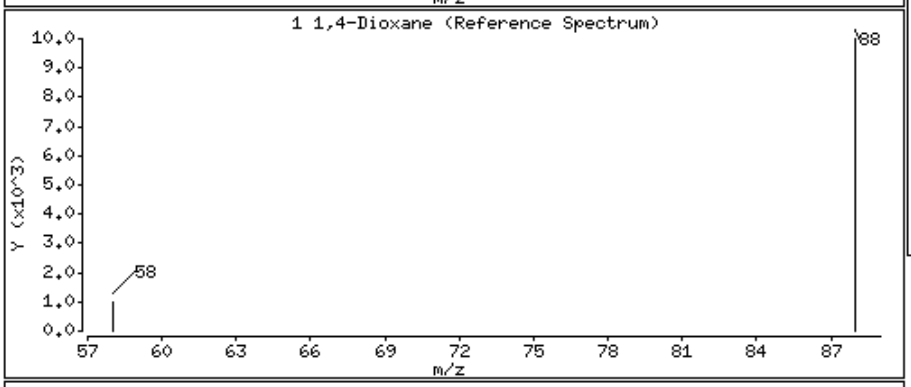
Column diameter: 0.28

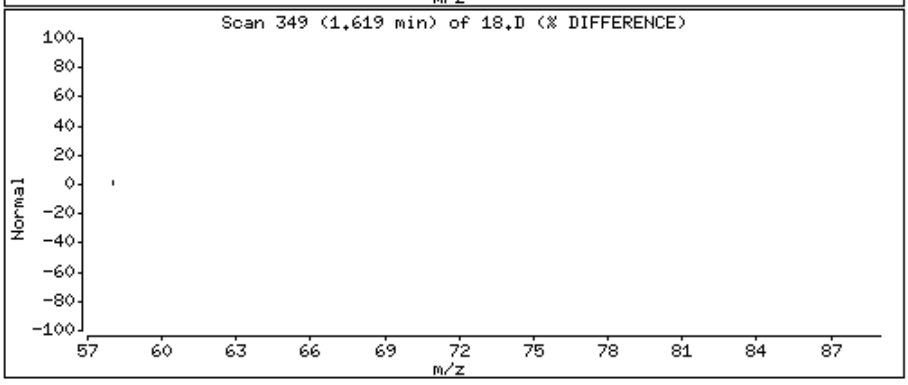
1 1,4-Dioxane

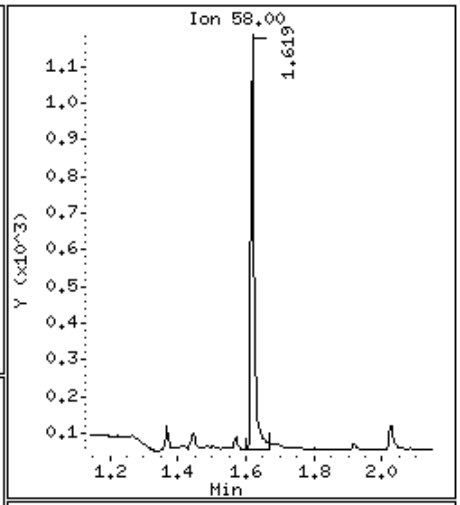
Concentration: 43.12 ug/L

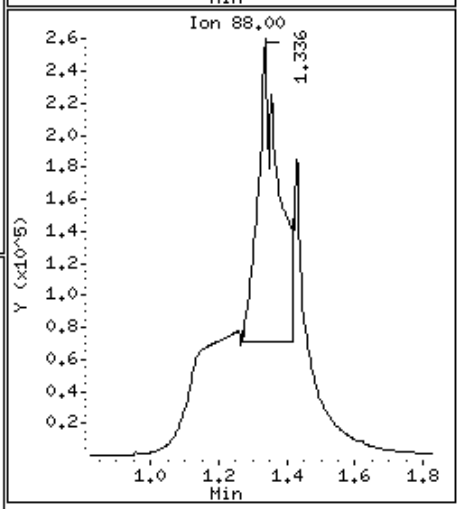












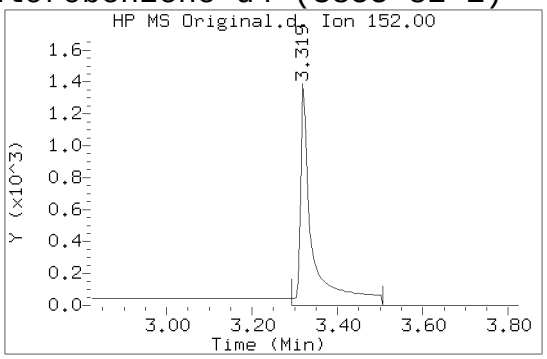
Data File : \\NAHSTWS005\Target\chem\SV6.i\220829.b\18.D
Inj Date : 29-AUG-2022 15:33
InstruID : SV6.i
LabSampID : HS22080933-02

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

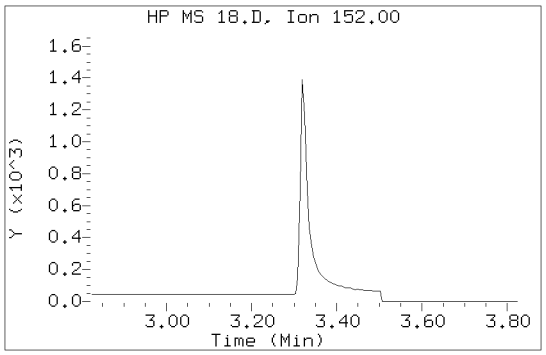
BEFORE

MASS
152
AREA
2640
HEIGHT
1389
29-Aug-2022
15:49
ALSHS
Server



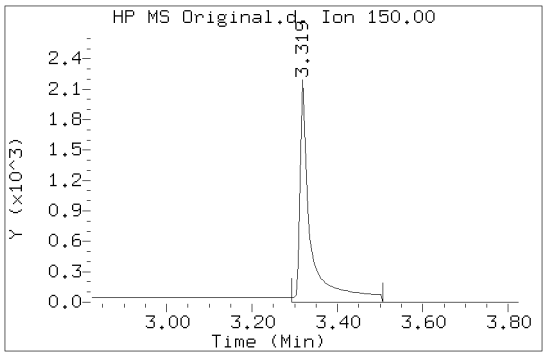
AFTER

MASS
152
AREA
4661
HEIGHT
1389
30-Aug-2022
16:13



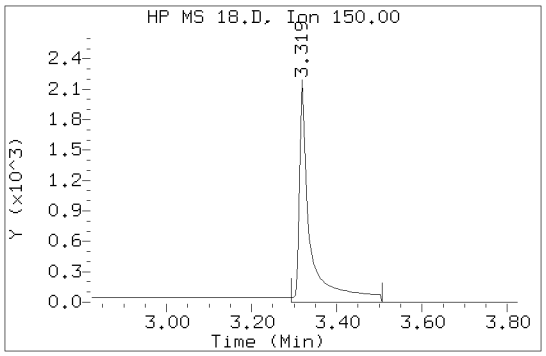
BEFORE

MASS
150
AREA
3832
HEIGHT
2192
29-Aug-2022
15:49
ALSHS
Server



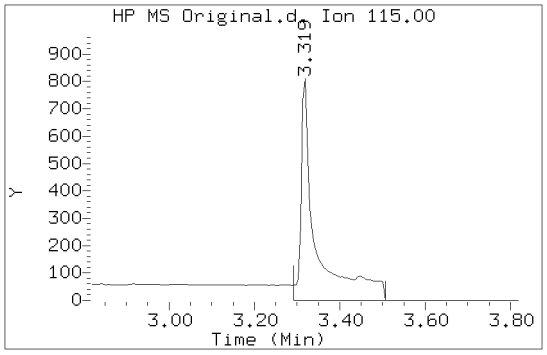
AFTER

MASS
150
AREA
3832
HEIGHT
2192
30-Aug-2022
16:13



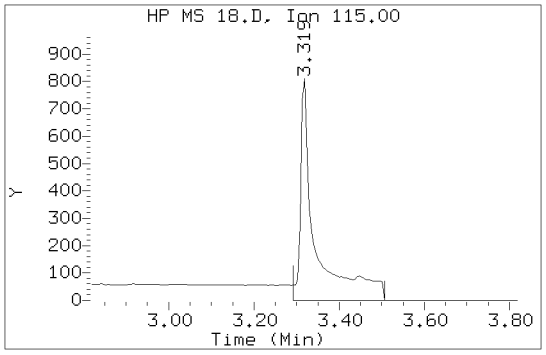
BEFORE

MASS
115
AREA
1948
HEIGHT
810
29-Aug-2022
15:49
ALSHS
Server



AFTER

MASS
115
AREA
1948
HEIGHT
810
30-Aug-2022
16:13

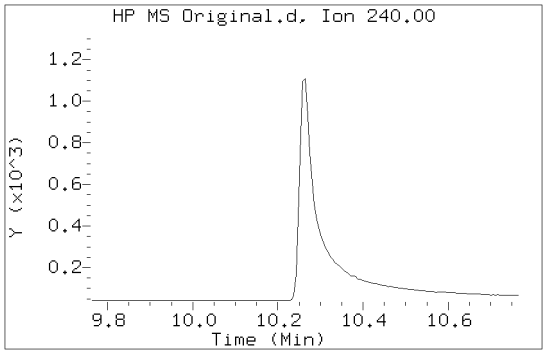


Chrysene-d12 (1719-03-5)

Reason Code:

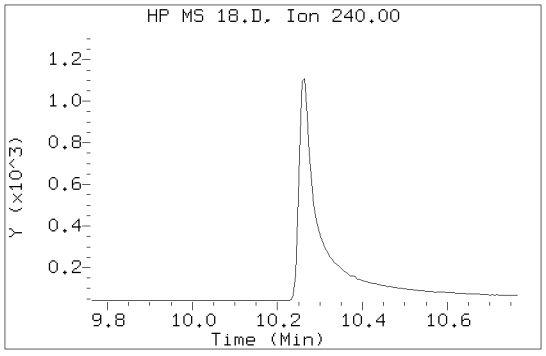
BEFORE

MASS
240
AREA
0
HEIGHT
0
29-Aug-2022
15:49
ALSHS
Server



AFTER

MASS
240
AREA
3906
HEIGHT
1061
30-Aug-2022
16:13

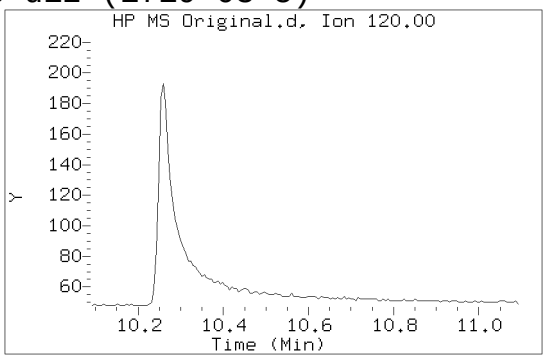


Data File : \\NAHSTWS005\Target\chem\SV6.i\220829.b\18.D
Inj Date : 29-AUG-2022 15:33
InstruID : SV6.i
LabSampID : HS22080933-02

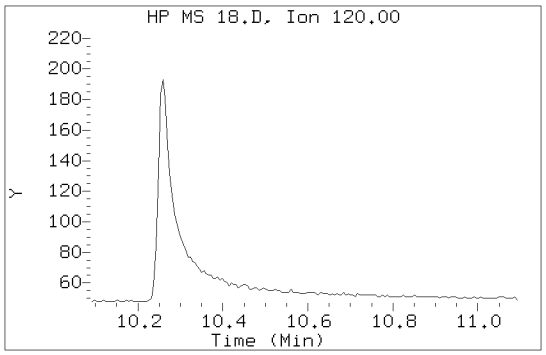
Chrysene-d12 (1719-03-5)

Reason Code:

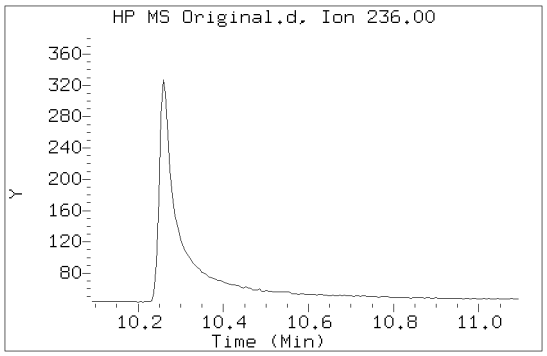
BEFORE
MASS
120
AREA
0
HEIGHT
0
29-Aug-2022
15:49
ALSHS
Server



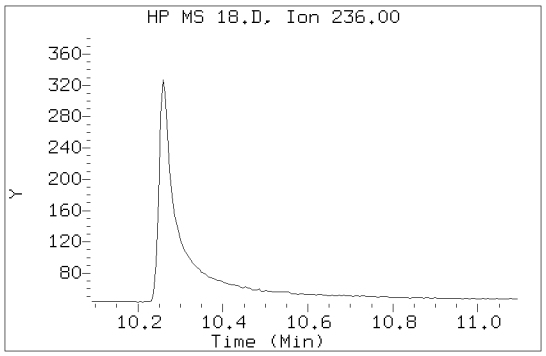
AFTER
MASS
120
AREA
0
HEIGHT
0
30-Aug-2022
16:13



BEFORE
MASS
236
AREA
0
HEIGHT
0
29-Aug-2022
15:49
ALSHS
Server



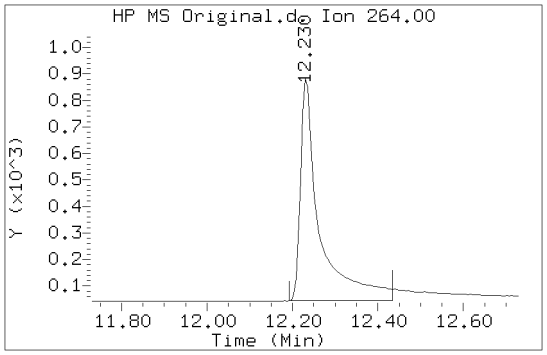
AFTER
MASS
236
AREA
0
HEIGHT
0
30-Aug-2022
16:13



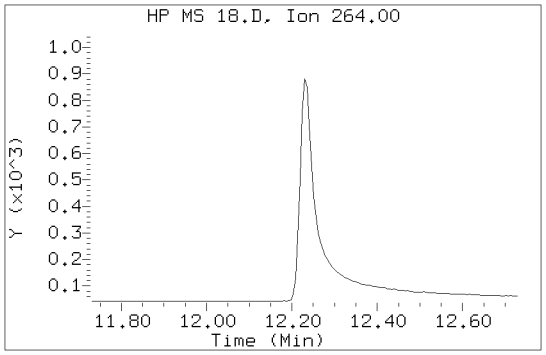
Perylene-d12 (1520-96-3)

Reason Code:

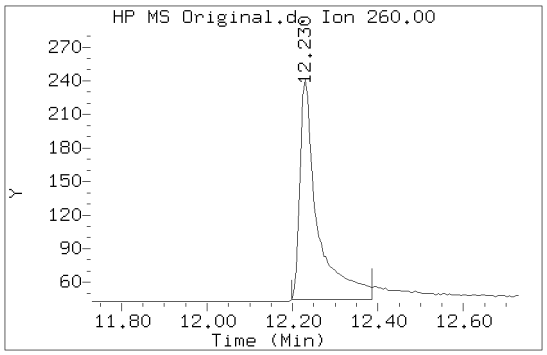
BEFORE
MASS
264
AREA
2596
HEIGHT
836
29-Aug-2022
15:49
ALSHS
Server



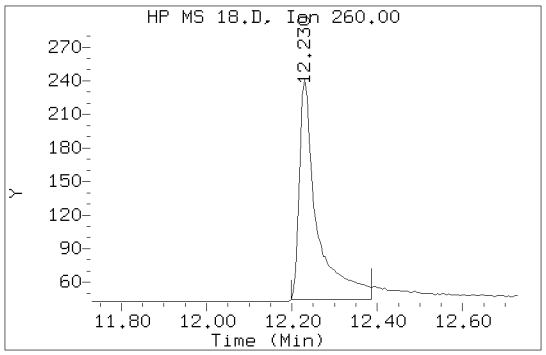
AFTER
MASS
264
AREA
3730
HEIGHT
847
30-Aug-2022
16:13



BEFORE
MASS
260
AREA
557
HEIGHT
196
29-Aug-2022
15:49
ALSHS
Server



AFTER
MASS
260
AREA
557
HEIGHT
196
30-Aug-2022
16:13



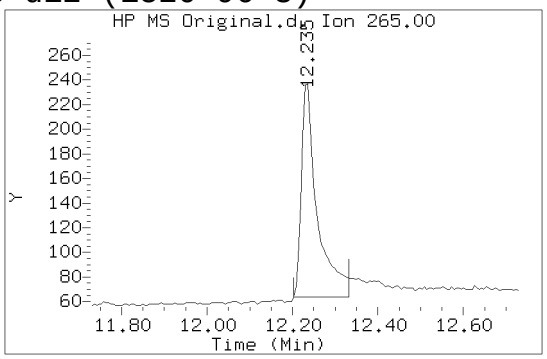
Data File : \\NAHSTWS005\Target\chem\SV6.i\220829.b\18.D
Inj Date : 29-AUG-2022 15:33
InstruID : SV6.i
LabSampID : HS22080933-02

Perylene-d12 (1520-96-3)

Reason Code:

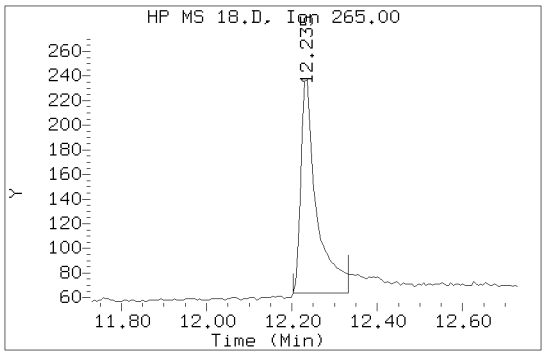
BEFORE

MASS
265
AREA
443
HEIGHT
173
29-Aug-2022
15:49
ALSHS
Server



AFTER

MASS
265
AREA
443
HEIGHT
173
30-Aug-2022
16:13

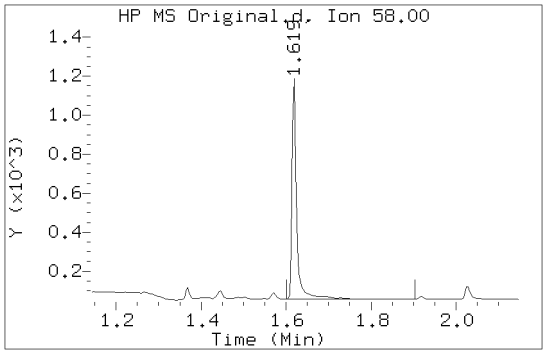


1,4-Dioxane ()

Reason Code:

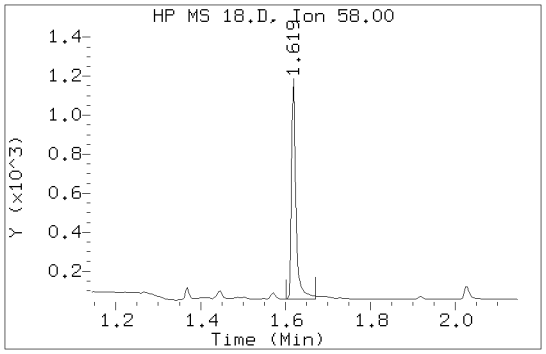
BEFORE

MASS
58
AREA
867
HEIGHT
1130
29-Aug-2022
15:49
ALSHS
Server



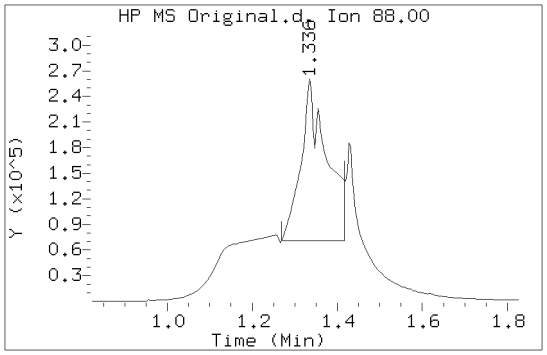
AFTER

MASS
58
AREA
825
HEIGHT
1130
30-Aug-2022
16:13



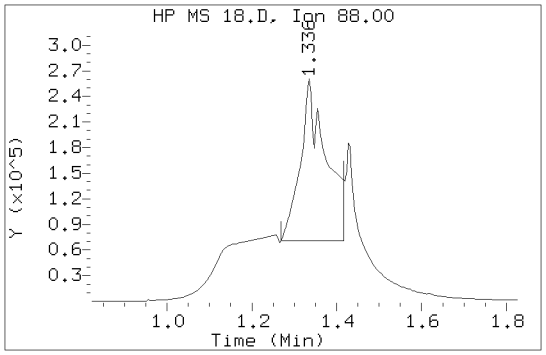
BEFORE

MASS
88
AREA
802643
HEIGHT
189800
29-Aug-2022
15:49
ALSHS
Server



AFTER

MASS
88
AREA
802643
HEIGHT
189800
30-Aug-2022
16:13



Data File: \\NAHSTWS005\Target\chem\SV6.i\220829.b\19.D Page 1
Report Date: 08-Sep-2022 12:11

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220829.b\19.D
Lab Smp Id: HS22080933-03 Client Smp ID: HS22080933-03
Inj Date : 29-AUG-2022 15:51
Operator : LG Inst ID: SV6.i
Smp Info : HS22080933-03X1H
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220829.b\DXSIM.m
Meth Date : 08-Sep-2022 12:10 Linh.Pham Quant Type: ISTD
Cal Date : 10-MAR-2022 12:56 Cal File: 009.D
Als bottle: 19
Dil Factor: 100.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	100.000	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	3.324	3.324	(1.000)	5147	0.10000		(aM)
* 45 Naphthalene-d8	136	4.421	4.421	(1.000)	11741	0.10000		
* 86 Acenaphthene-d10	164	6.080	6.081	(1.000)	6806	0.10000		(Q)
* 126 Phenanthrene-d10	188	7.520	7.520	(1.000)	9964	0.10000		
* 182 Chrysene-d12	240	10.258	10.259	(1.000)	4747	0.10000		(M)
* 198 Perylene-d12	264	12.229	12.229	(1.000)	2904	0.10000		
1 1,4-Dioxane	58	1.656	1.645	(0.498)	922	0.43635	43.63	(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.

01141597

Data File: \\NAHSTWS005\Target\chem\SV6.i\220829.b\19.D

Date : 29-AUG-2022 15:51

Client ID: HS22080933-03

Instrument: SV6.i

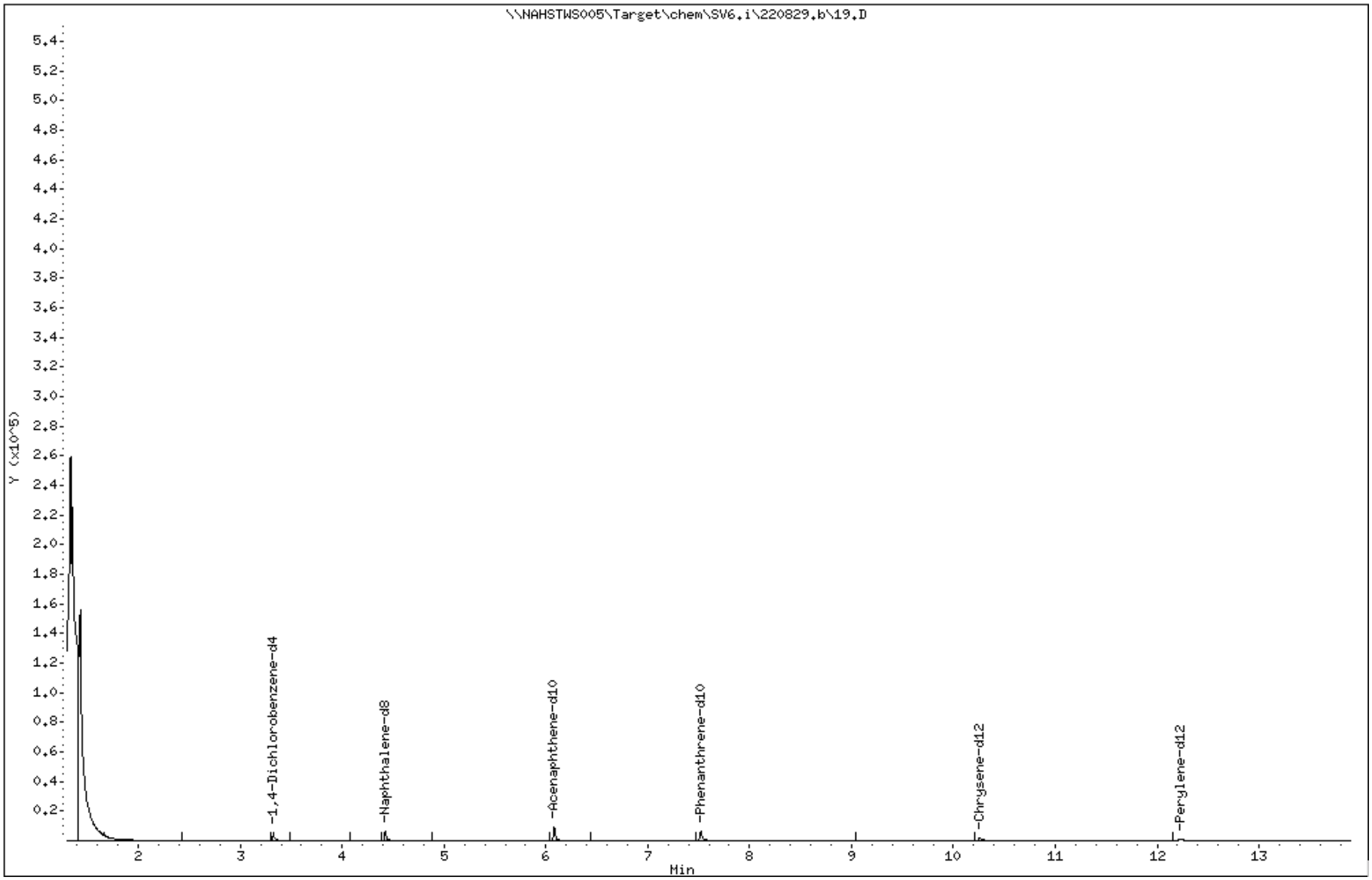
Sample Info: HS22080933-03X1H

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\220829.b\19.D

Date : 29-AUG-2022 15:51

Client ID: HS22080933-03

Instrument: SV6.i

Sample Info: HS22080933-03X1H

Purge Volume: 1000.0

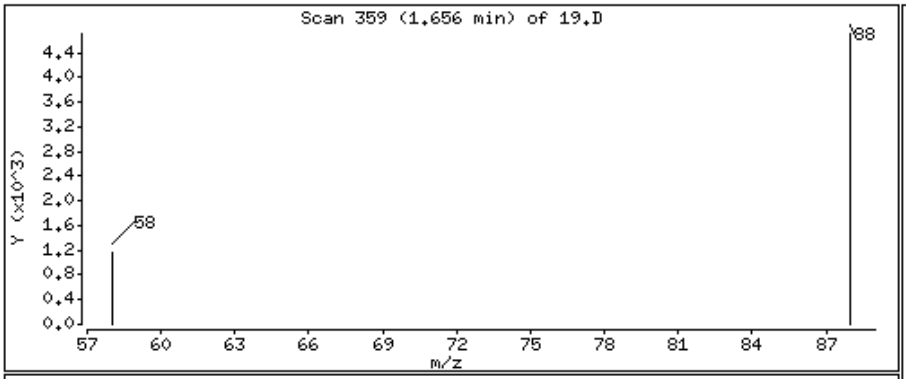
Operator: LG

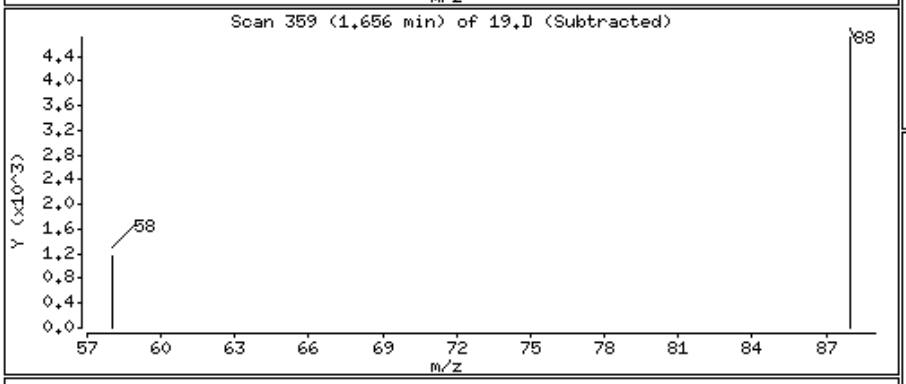
Column phase: RTX-5SIL MS

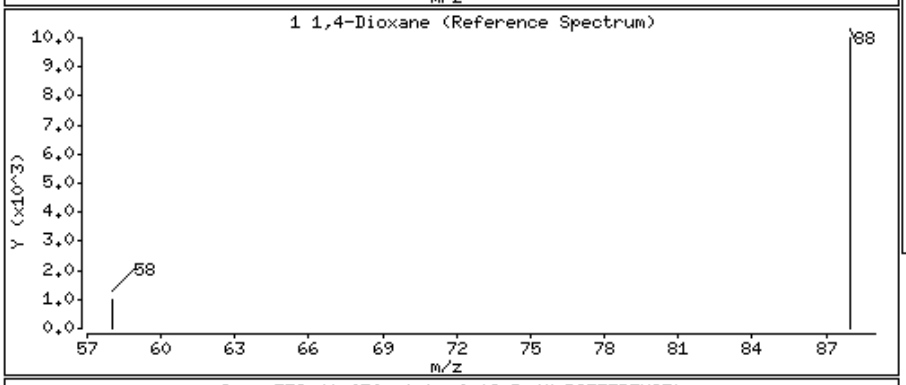
Column diameter: 0.28

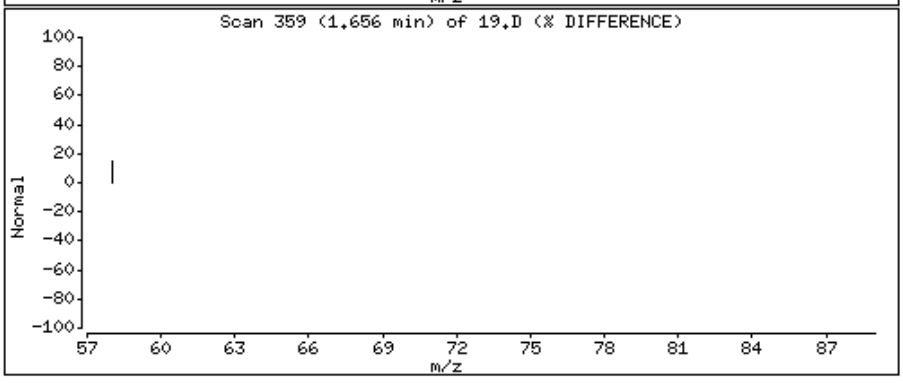
1 1,4-Dioxane

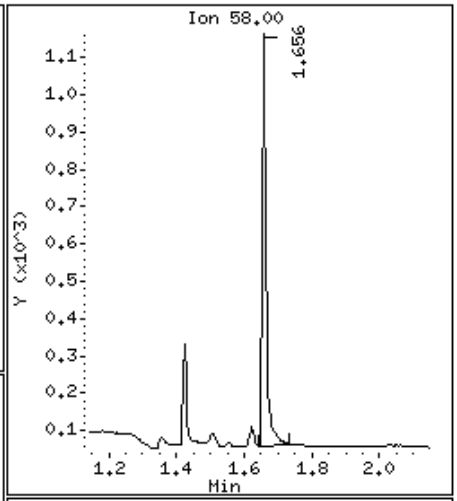
Concentration: 43.63 ug/L

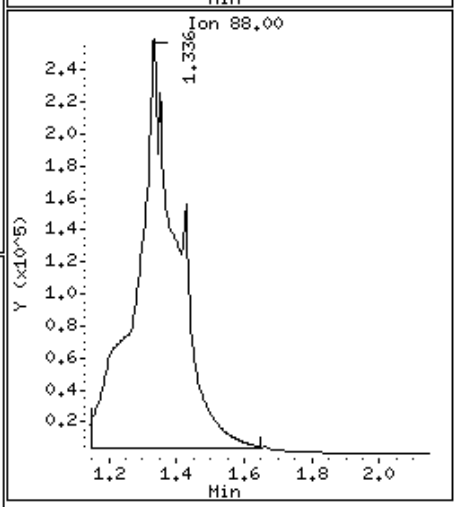












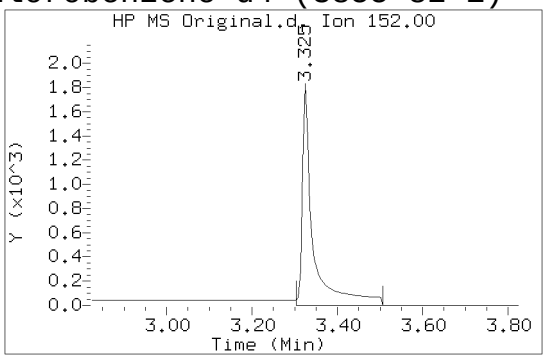
Data File : \\NAHSTWS005\Target\chem\SV6.i\220829.b\19.D
Inj Date : 29-AUG-2022 15:51
InstruID : SV6.i
LabSampID : HS22080933-03

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

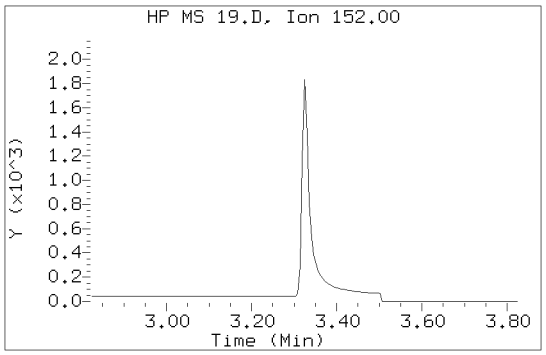
BEFORE

MASS
152
AREA
3153
HEIGHT
1832
29-Aug-2022
16:06
ALSHS
Server



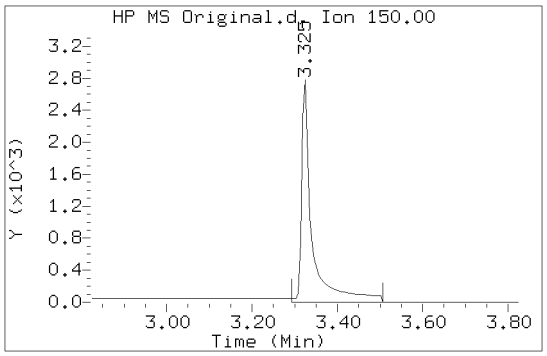
AFTER

MASS
152
AREA
5147
HEIGHT
1832
08-Sep-2022
12:11
ALSHS
Ser



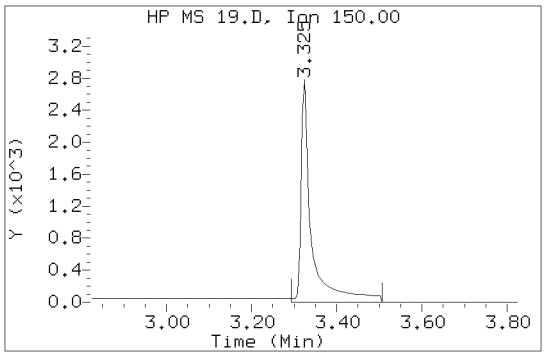
BEFORE

MASS
150
AREA
4673
HEIGHT
2779
29-Aug-2022
16:06
ALSHS
Server



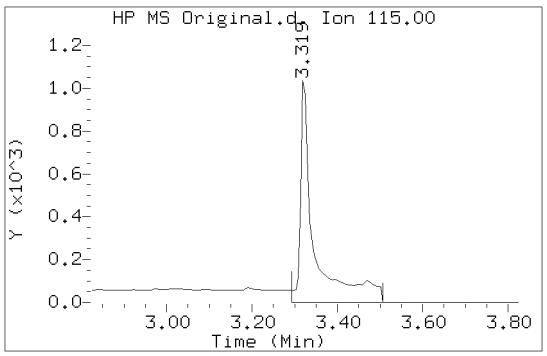
AFTER

MASS
150
AREA
4673
HEIGHT
2779
08-Sep-2022
12:11
ALSHS
Ser



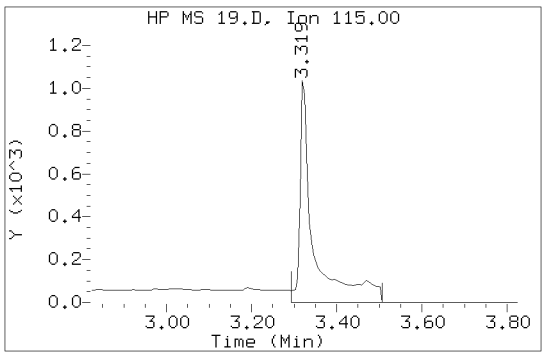
BEFORE

MASS
115
AREA
2304
HEIGHT
1035
29-Aug-2022
16:06
ALSHS
Server



AFTER

MASS
115
AREA
2304
HEIGHT
1035
08-Sep-2022
12:11
ALSHS
Ser

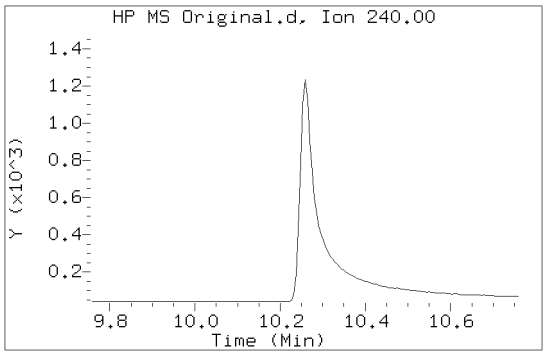


Chrysene-d12 (1719-03-5)

Reason Code:

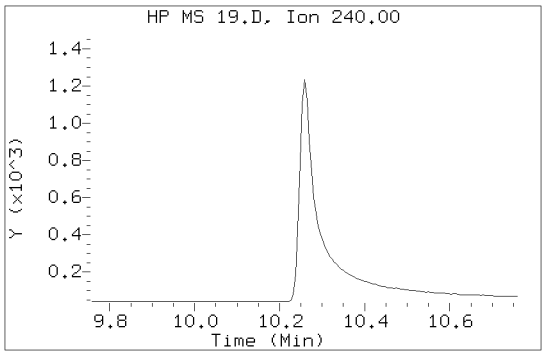
BEFORE

MASS
240
AREA
0
HEIGHT
0
29-Aug-2022
16:06
ALSHS
Server



AFTER

MASS
240
AREA
4747
HEIGHT
1188
08-Sep-2022
12:11
ALSHS
Ser



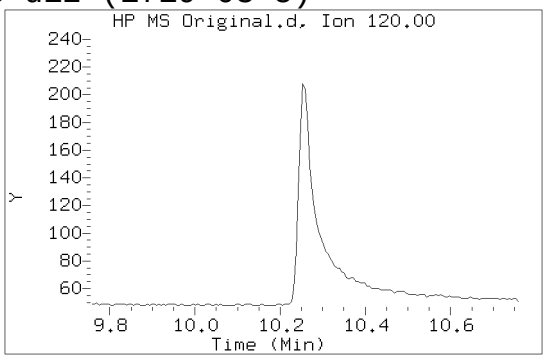
Data File : \\NAHSTWS005\Target\chem\SV6.i\220829.b\19.D
Inj Date : 29-AUG-2022 15:51
InstruID : SV6.i
LabSampID : HS22080933-03

Chrysene-d12 (1719-03-5)

Reason Code:

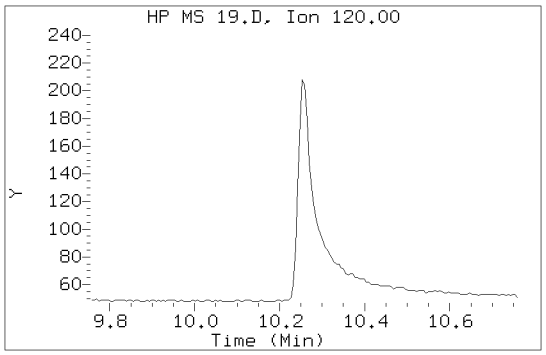
BEFORE

MASS
120
AREA
0
HEIGHT
0
29-Aug-2022
16:06
ALSHS
Server



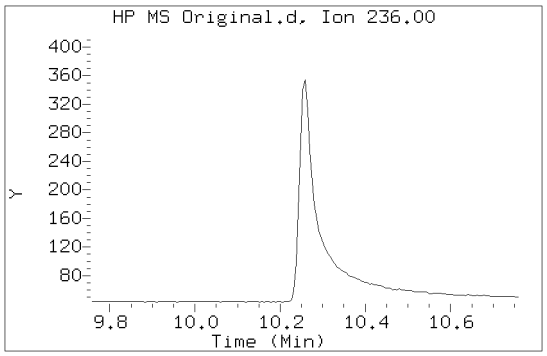
AFTER

MASS
120
AREA
0
HEIGHT
0
08-Sep-2022
12:11
ALSHS
Ser



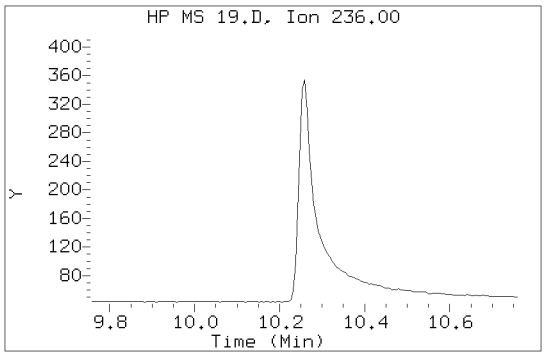
BEFORE

MASS
236
AREA
0
HEIGHT
0
29-Aug-2022
16:06
ALSHS
Server



AFTER

MASS
236
AREA
0
HEIGHT
0
08-Sep-2022
12:11
ALSHS
Ser

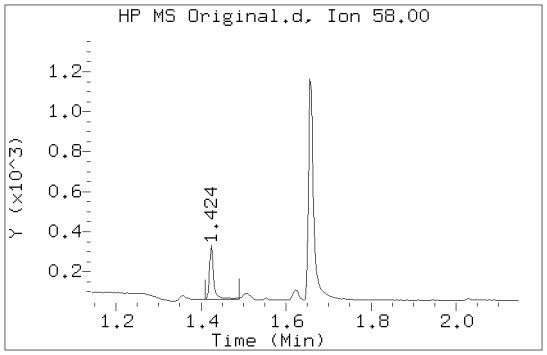


1,4-Dioxane ()

Reason Code:

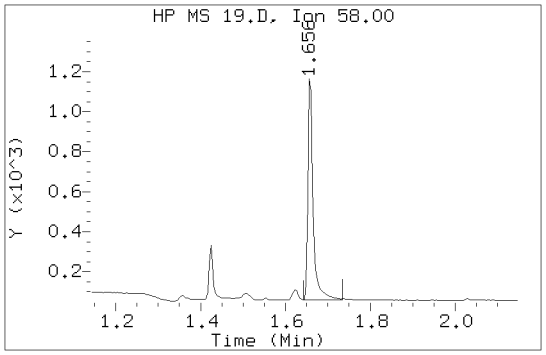
BEFORE

MASS
58
AREA
191
HEIGHT
268
29-Aug-2022
16:06
ALSHS
Server



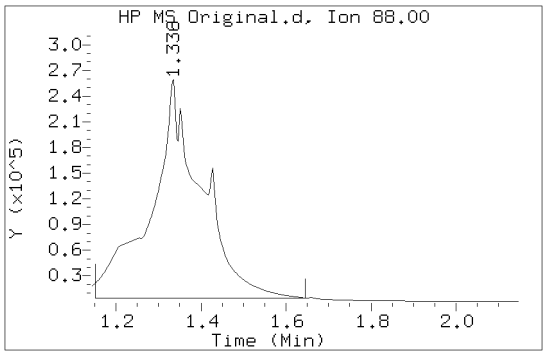
AFTER

MASS
58
AREA
922
HEIGHT
1104
08-Sep-2022
12:11
ALSHS
Ser



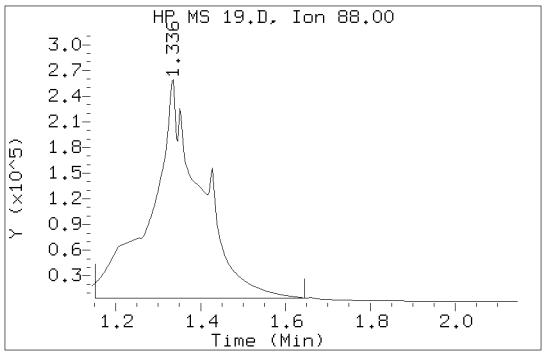
BEFORE

MASS
88
AREA
2100193
HEIGHT
255068
29-Aug-2022
16:06
ALSHS
Server



AFTER

MASS
88
AREA
2100193
HEIGHT
255068
08-Sep-2022
12:11
ALSHS
Ser



Data File: \\NAHSTWS005\Target\chem\SV6.i\220829.b\20.D Page 1
Report Date: 08-Sep-2022 12:11

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220829.b\20.D
Lab Smp Id: HS22080933-04 Client Smp ID: HS22080933-04
Inj Date : 29-AUG-2022 16:09
Operator : LG Inst ID: SV6.i
Smp Info : HS22080933-04X1K
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220829.b\DXSIM.m
Meth Date : 08-Sep-2022 12:10 Linh.Pham Quant Type: ISTD
Cal Date : 10-MAR-2022 12:56 Cal File: 009.D
Als bottle: 20
Dil Factor: 1000.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1000.000	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	3.329	3.324	(1.000)	5261	0.10000		(aM)
* 45 Naphthalene-d8	136	4.421	4.421	(1.000)	13107	0.10000		
* 86 Acenaphthene-d10	164	6.080	6.081	(1.000)	7531	0.10000		(Q)
* 126 Phenanthrene-d10	188	7.520	7.520	(1.000)	11235	0.10000		
* 182 Chrysene-d12	240	10.253	10.259	(1.000)	4818	0.10000		(M)
* 198 Perylene-d12	264	12.224	12.229	(1.000)	3158	0.10000		
1 1,4-Dioxane	58	1.689	1.645	(0.507)	928	0.42967	429.7	(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.

01141602

Data File: \\NAHSTWS005\Target\chem\SV6.i\220829.b\20.D

Date : 29-AUG-2022 16:09

Client ID: HS22080933-04

Instrument: SV6.i

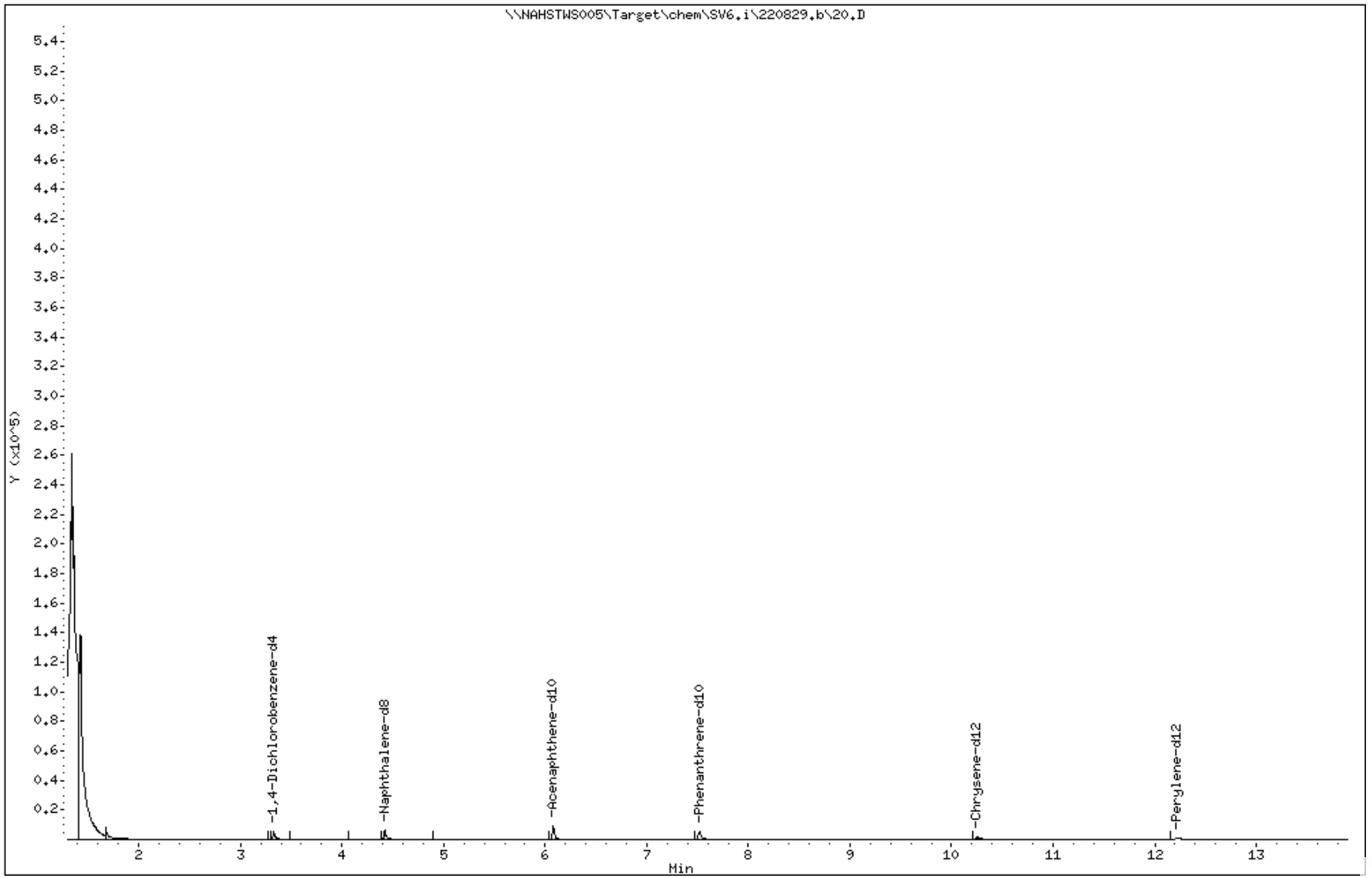
Sample Info: HS22080933-04X1K

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\220829.b\20.D

Date : 29-AUG-2022 16:09

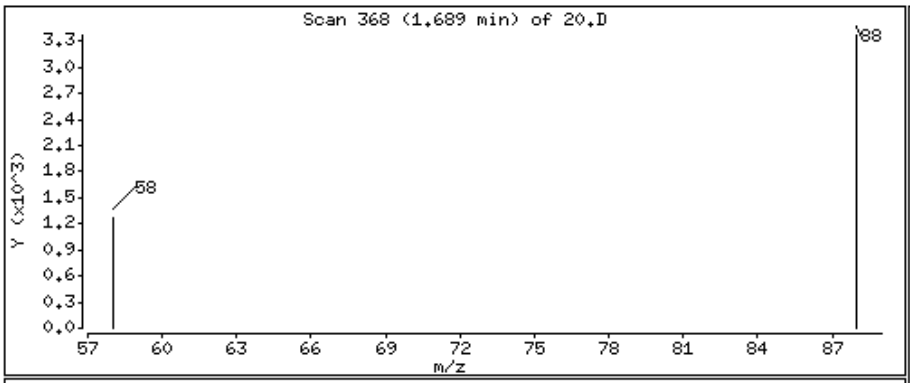
Client ID: HS22080933-04 Instrument: SV6.i

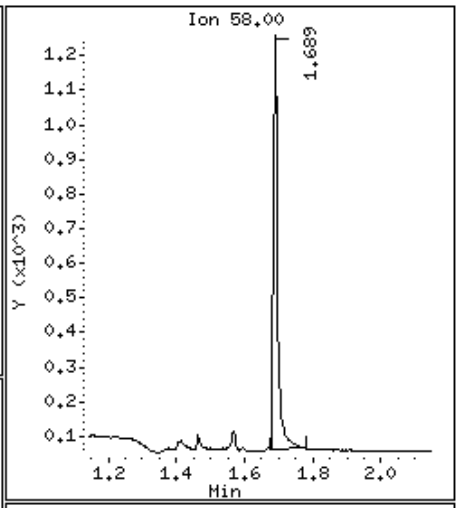
Sample Info: HS22080933-04X1K

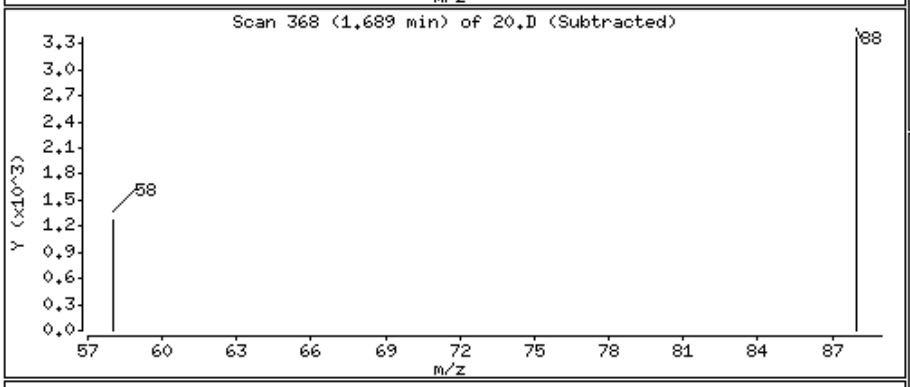
Purge Volume: 1000.0 Operator: LG

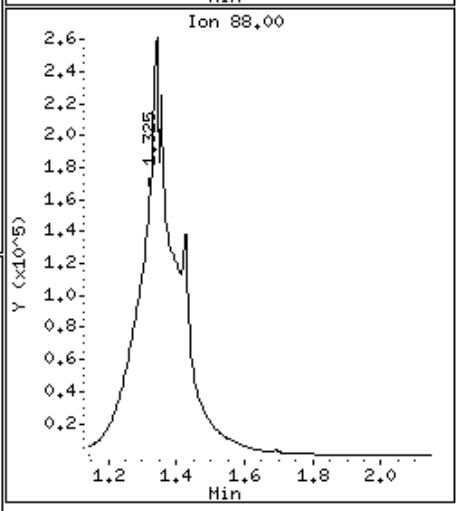
Column phase: RTX-5SIL MS Column diameter: 0.28

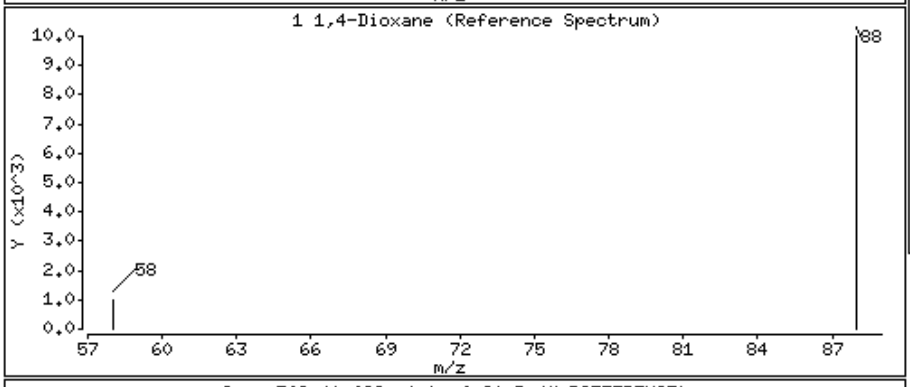
1 1,4-Dioxane Concentration: 429.7 ug/L

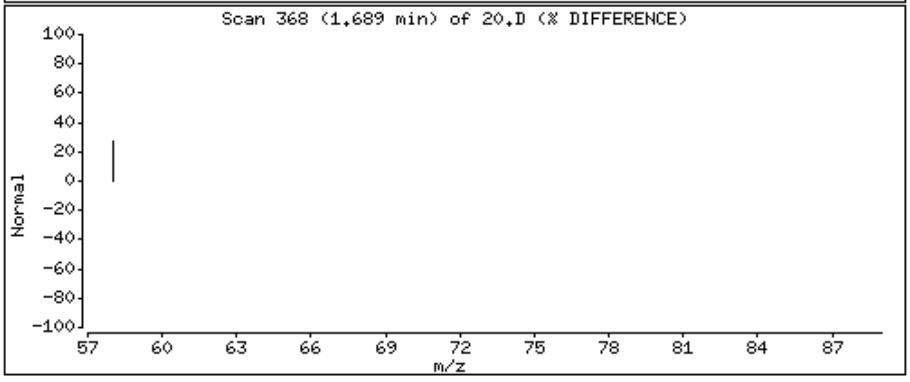












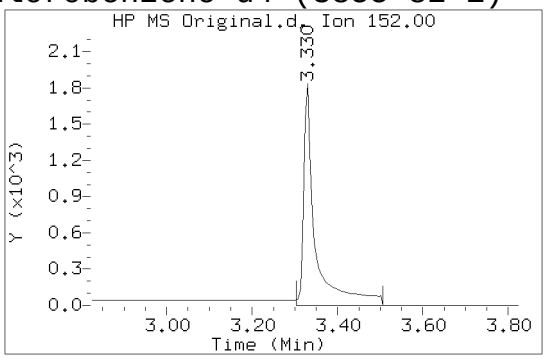
Data File : \\NAHSTWS005\Target\chem\SV6.i\220829.b\20.D
Inj Date : 29-AUG-2022 16:09
InstruID : SV6.i
LabSampID : HS22080933-04

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

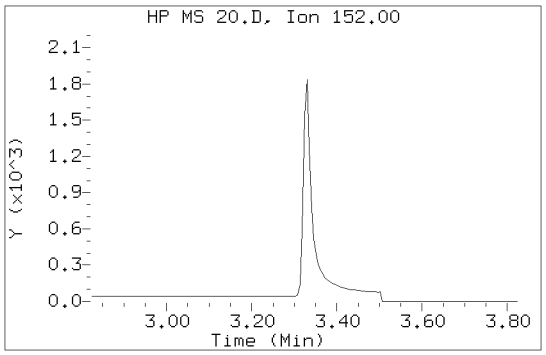
BEFORE

MASS
152
AREA
3426
HEIGHT
1835
29-Aug-2022
16:25
ALSHS
Server



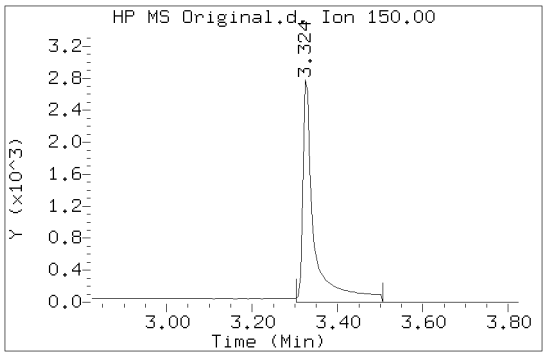
AFTER

MASS
152
AREA
5261
HEIGHT
1835
08-Sep-2022
12:11
ALSHS
Ser



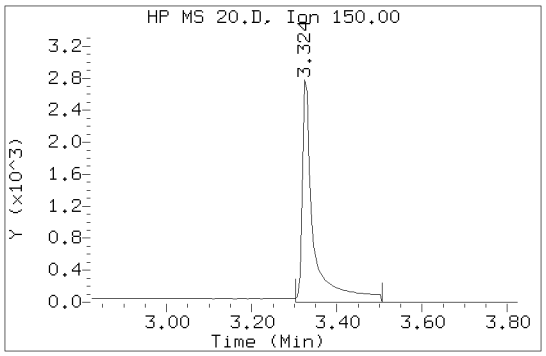
BEFORE

MASS
150
AREA
5093
HEIGHT
2779
29-Aug-2022
16:25
ALSHS
Server



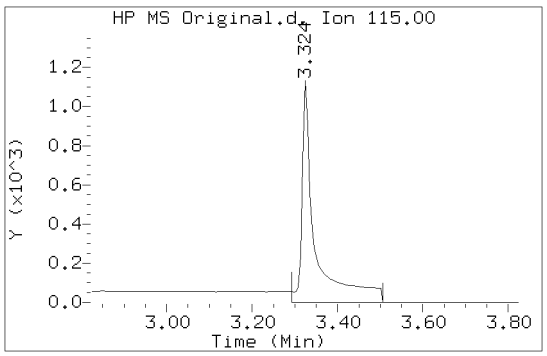
AFTER

MASS
150
AREA
5093
HEIGHT
2779
08-Sep-2022
12:11
ALSHS
Ser



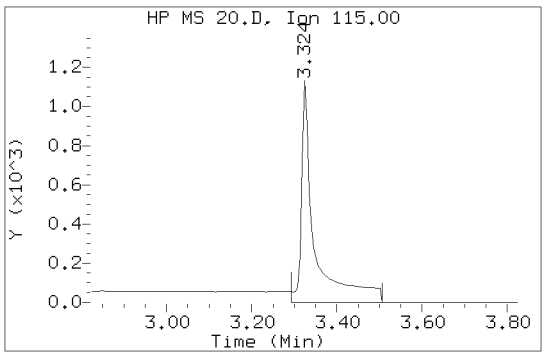
BEFORE

MASS
115
AREA
2387
HEIGHT
1132
29-Aug-2022
16:25
ALSHS
Server



AFTER

MASS
115
AREA
2387
HEIGHT
1132
08-Sep-2022
12:11
ALSHS
Ser

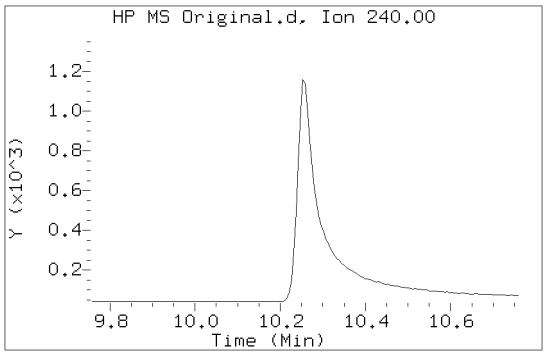


Chrysene-d12 (1719-03-5)

Reason Code:

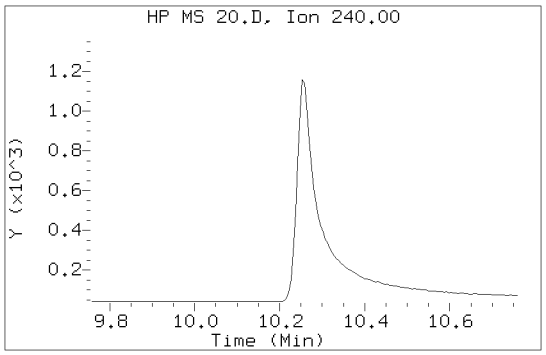
BEFORE

MASS
240
AREA
0
HEIGHT
0
29-Aug-2022
16:25
ALSHS
Server



AFTER

MASS
240
AREA
4818
HEIGHT
1109
08-Sep-2022
12:11
ALSHS
Ser



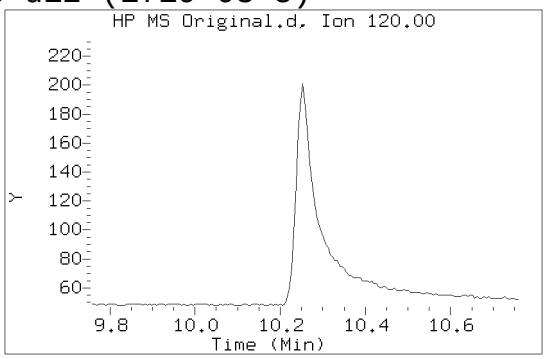
Data File : \\NAHSTWS005\Target\chem\SV6.i\220829.b\20.D
Inj Date : 29-AUG-2022 16:09
InstruID : SV6.i
LabSampID : HS22080933-04

Chrysene-d12 (1719-03-5)

Reason Code:

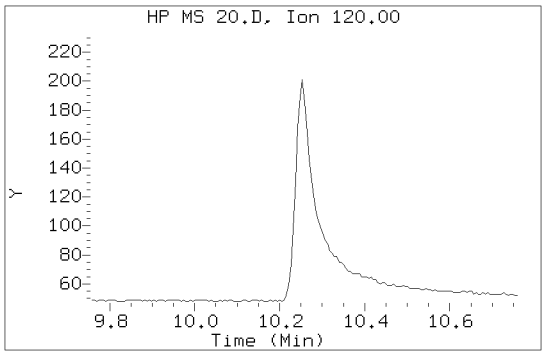
BEFORE

MASS
120
AREA
0
HEIGHT
0
29-Aug-2022
16:25
ALSHS
Server



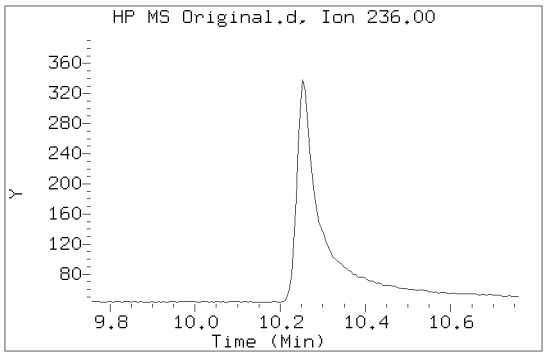
AFTER

MASS
120
AREA
0
HEIGHT
0
08-Sep-2022
12:11
ALSHS
Ser



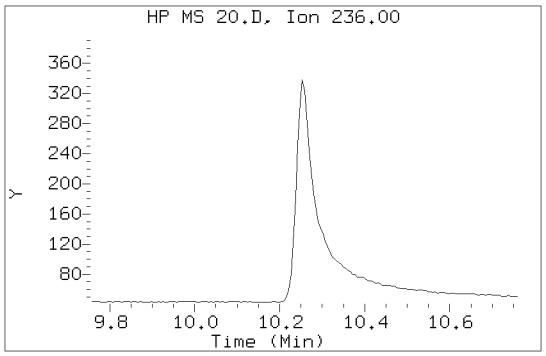
BEFORE

MASS
236
AREA
0
HEIGHT
0
29-Aug-2022
16:25
ALSHS
Server



AFTER

MASS
236
AREA
0
HEIGHT
0
08-Sep-2022
12:11
ALSHS
Ser

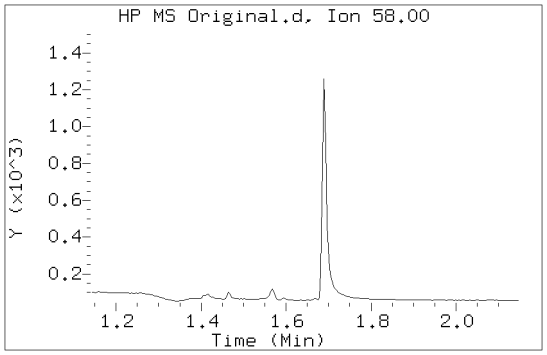


1,4-Dioxane ()

Reason Code:

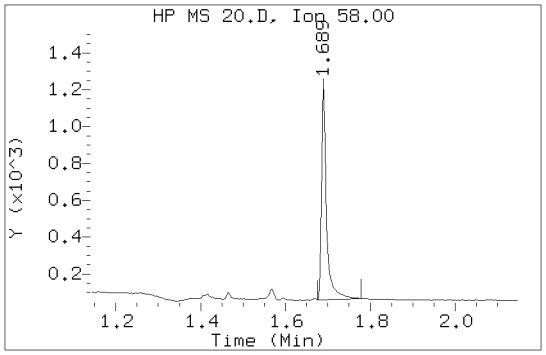
BEFORE

MASS
58
AREA
0
HEIGHT
0
29-Aug-2022
16:25
ALSHS
Server



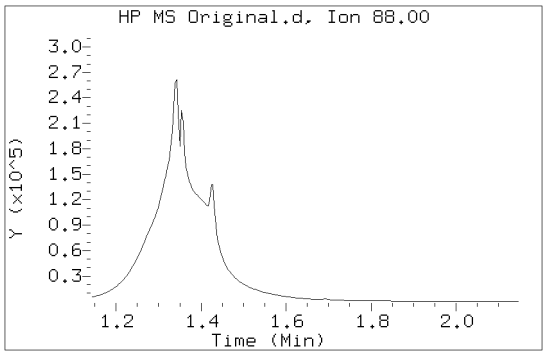
AFTER

MASS
58
AREA
928
HEIGHT
1198
08-Sep-2022
12:11
ALSHS
Ser



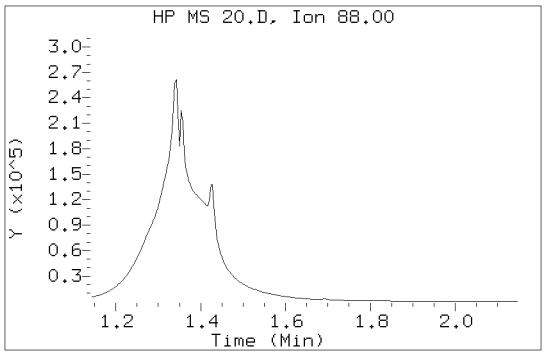
BEFORE

MASS
88
AREA
0
HEIGHT
0
29-Aug-2022
16:25
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
08-Sep-2022
12:11
ALSHS
Ser



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\220829.b\25.D
Lab Smp Id: 1 4-DIOX-CCV Client Smp ID: 1 4-DIOX-CCV
Inj Date : 29-AUG-2022 17:39
Operator : LG Inst ID: SV6.i
Smp Info : 1 4-DIOX-0.08;1 4-DIOX-0.08;2
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\220829.b\DXSIM.m
Meth Date : 07-Sep-2022 14:22 SV6.i Quant Type: ISTD
Cal Date : 10-MAR-2022 12:56 Cal File: 009.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)	
* 20 1,4-Dichlorobenzene-d4	152	3.324	3.324	(1.000)	5983	0.10000		(aM)
* 45 Naphthalene-d8	136	4.421	4.421	(1.000)	14316	0.10000		
$ 33 Nitrobenzene-d5	82	3.786	3.786	(0.856)	3039	0.08000	0.06368	(QM)
* 86 Acenaphthene-d10	164	6.081	6.081	(1.000)	9019	0.10000		(Q)
$ 69 2-Fluorobiphenyl	172	5.442	5.442	(0.895)	8695	0.08000	0.06194	
* 126 Phenanthrene-d10	188	7.520	7.520	(1.000)	12858	0.10000		
* 182 Chrysene-d12	240	10.259	10.259	(1.000)	6246	0.10000		(M)
$ 158 4-Terphenyl-d14	244	9.091	9.091	(0.886)	7278	0.08000	0.06198	(M)
* 198 Perylene-d12	264	12.229	12.229	(1.000)	3541	0.10000		
1 1,4-Dioxane	58	1.645	1.645	(0.495)	211	0.08000	0.08590	(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.

01141607

Data File: \\NAHSTWS005\Target\chem\SV6.i\220829.b\25.D

Date : 29-AUG-2022 17:39

Client ID: 1 4-DIOX-CCV

Instrument: SV6.i

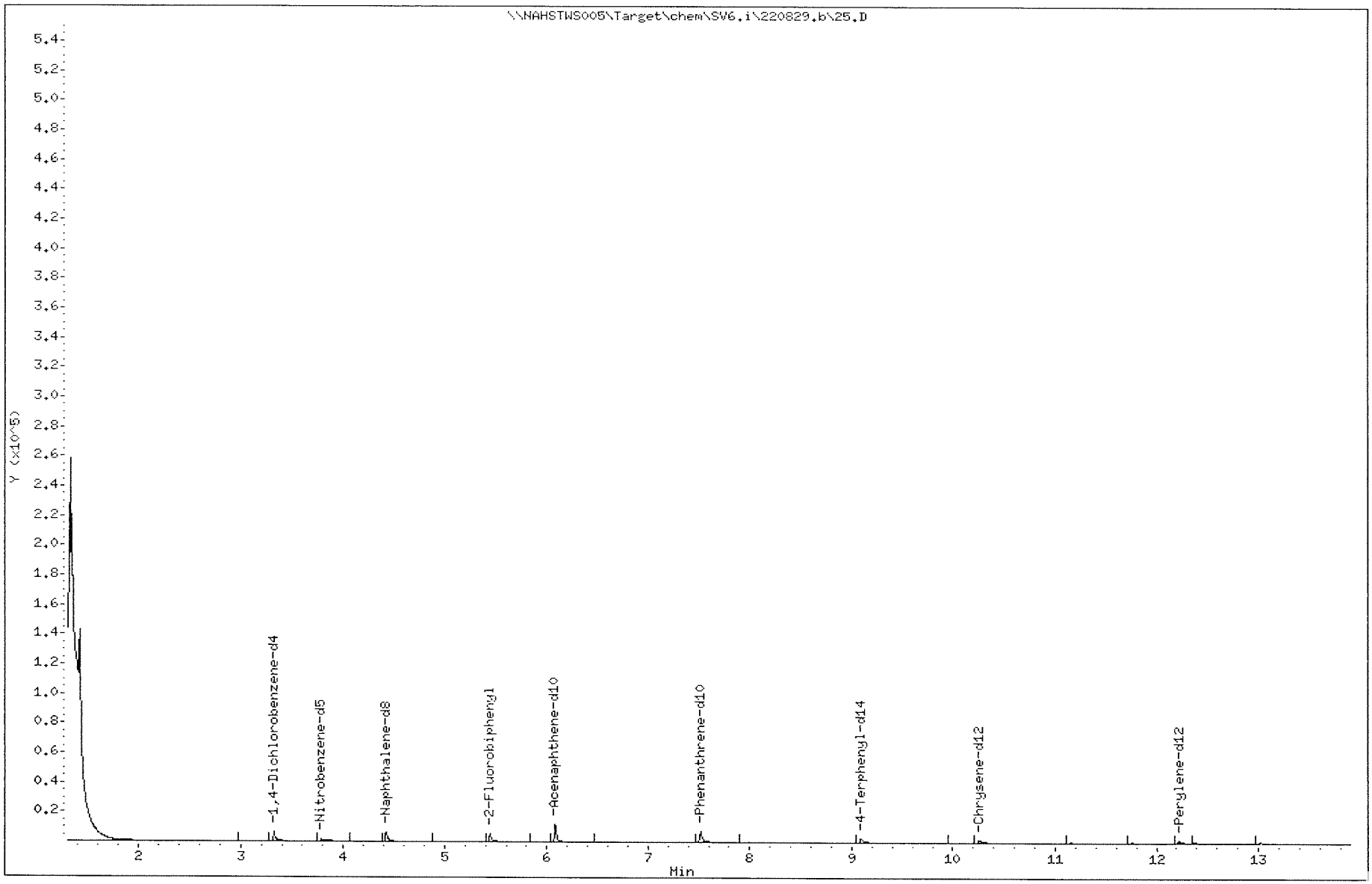
Sample Info: 1 4-DIOX-0.08;1 4-DIOX-0.08;2

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

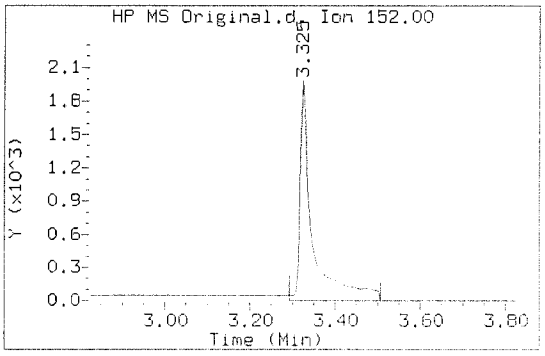


Data File : \\NAHSTWS005\Target\chem\SV6.i\220829.b\25.D
Inj Date : 29-AUG-2022 17:39
InstruID : SV6.i
LabSampID : 1 4-DIOX-CCV

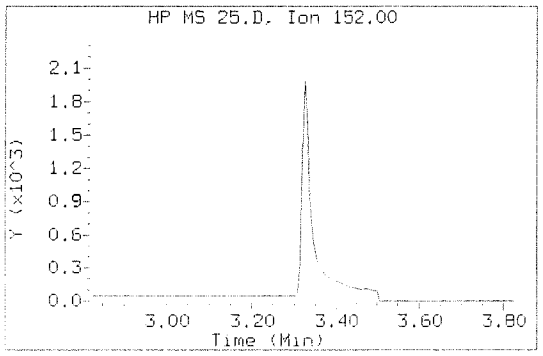
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

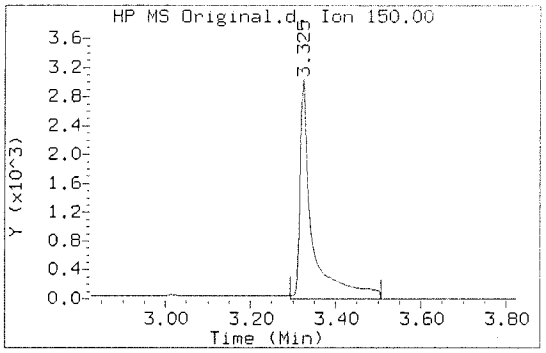
BEFORE
MASS
152
AREA
4017
HEIGHT
1988
29-Aug-2022
17:54
ALSHS
Server



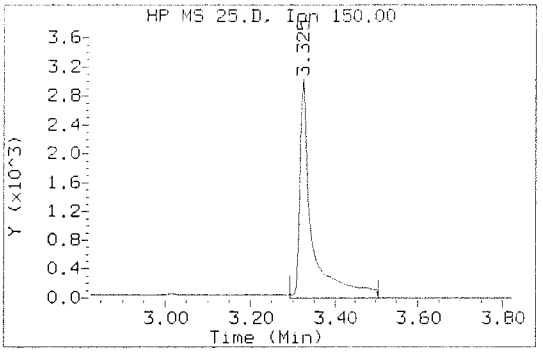
AFTER
MASS
152
AREA
5983
HEIGHT
1988
07-Sep-2022
14:22
ALSHS
Ser



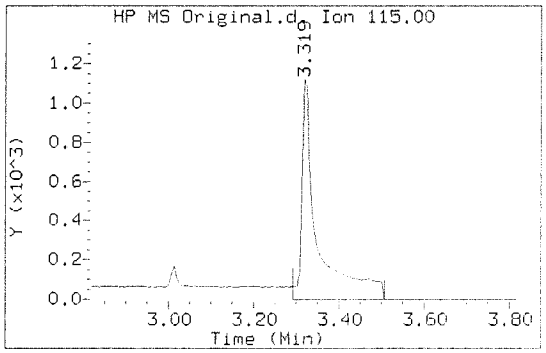
BEFORE
MASS
150
AREA
6017
HEIGHT
3038
29-Aug-2022
17:54
ALSHS
Server



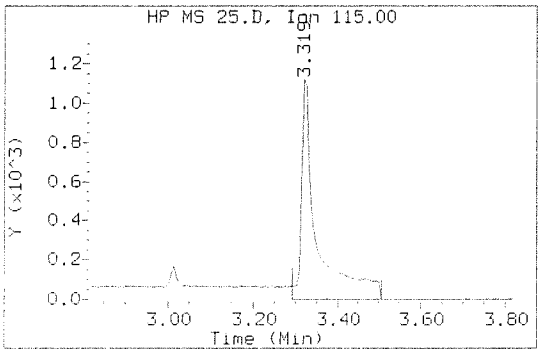
AFTER
MASS
150
AREA
6017
HEIGHT
3036
07-Sep-2022
14:22
ALSHS
Ser



BEFORE
MASS
115
AREA
2816
HEIGHT
1119
29-Aug-2022
17:54
ALSHS
Server



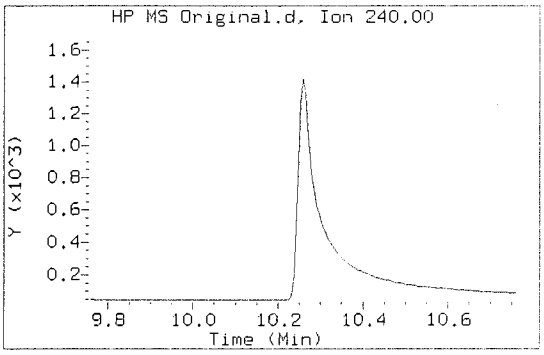
AFTER
MASS
115
AREA
2816
HEIGHT
1119
07-Sep-2022
14:22
ALSHS
Ser



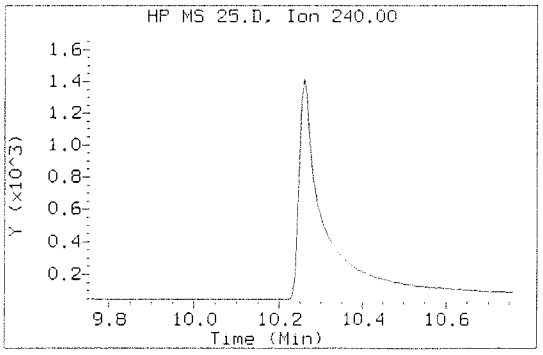
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
0
HEIGHT
0
29-Aug-2022
17:54
ALSHS
Server



AFTER
MASS
240
AREA
6246
HEIGHT
1369
07-Sep-2022
14:22
ALSHS
Ser

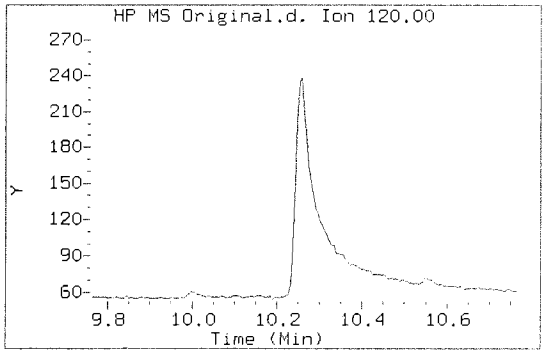


Data File : \\NAHSTWS005\Target\chem\SV6.i\220829.b\25.D
Inj Date : 29-AUG-2022 17:39
InstruID : SV6.i
LabSampID : 1 4-DIOX-CCV

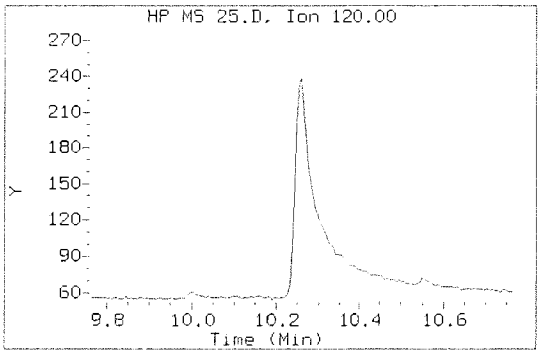
Chrysene-d12 (1719-03-5)

Reason Code:

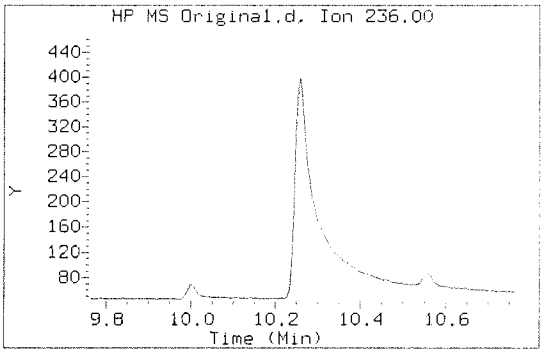
BEFORE
MASS
120
AREA
0
HEIGHT
0
29-Aug-2022
17:54
ALSHS
Server



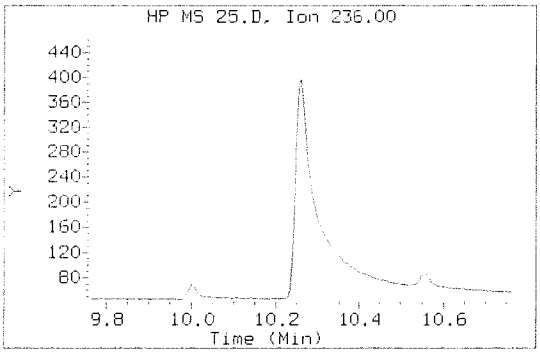
AFTER
MASS
120
AREA
0
HEIGHT
0
07-Sep-2022
14:22
ALSHS
Ser



BEFORE
MASS
236
AREA
0
HEIGHT
0
29-Aug-2022
17:54
ALSHS
Server



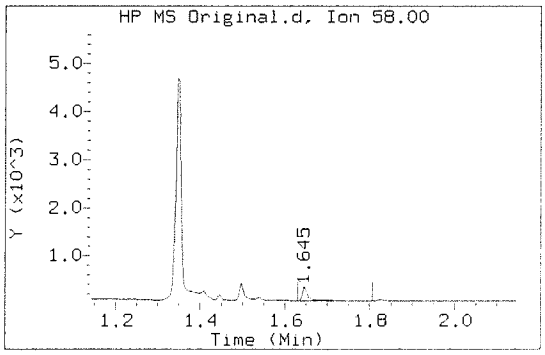
AFTER
MASS
236
AREA
0
HEIGHT
0
07-Sep-2022
14:22
ALSHS
Ser



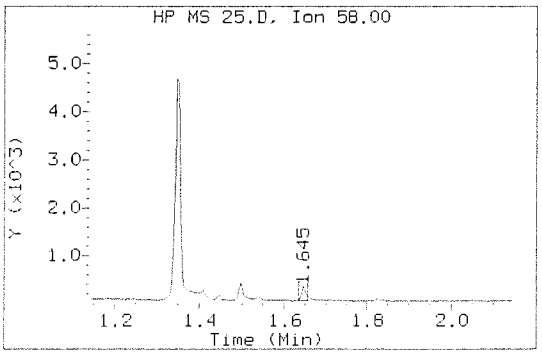
1,4-Dioxane ()

Reason Code:

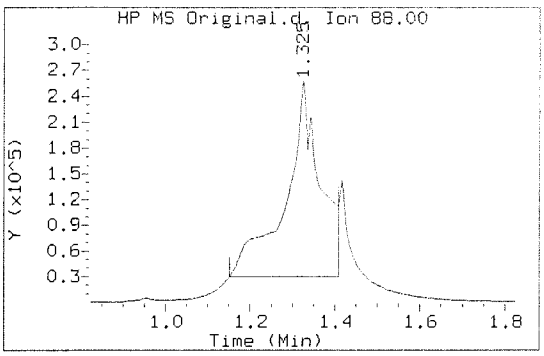
BEFORE
MASS
58
AREA
291
HEIGHT
312
29-Aug-2022
17:54
ALSHS
Server



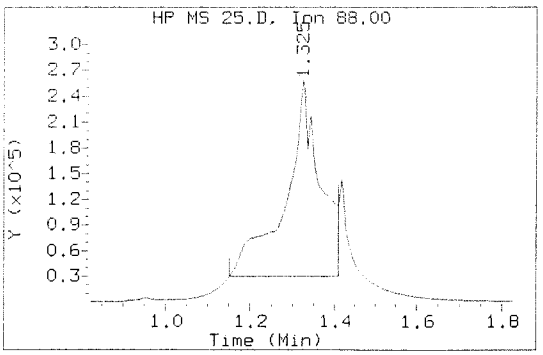
AFTER
MASS
58
AREA
211
HEIGHT
308
07-Sep-2022
14:22
ALSHS
Ser



BEFORE
MASS
88
AREA
1302961
HEIGHT
228032
29-Aug-2022
17:54
ALSHS
Server



AFTER
MASS
88
AREA
1302961
HEIGHT
228032
07-Sep-2022
14:22
ALSHS
Ser

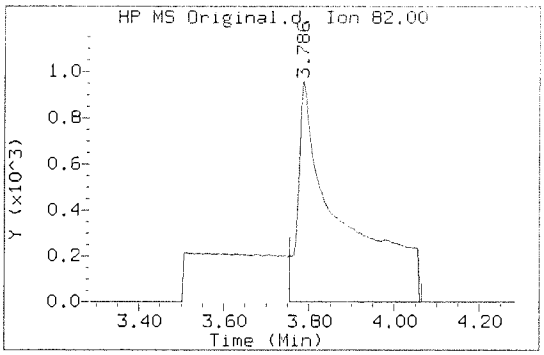


Data File : \\NAHSTWS005\Target\chem\SV6.i\220829.b\25.D
Inj Date : 29-AUG-2022 17:39
InstruID : SV6.i
LabSampID : 1 4-DIOX-CCV

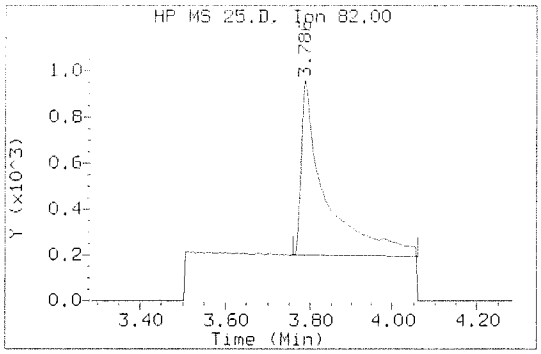
Nitrobenzene-d5 (4165-60-0)

Reason Code:

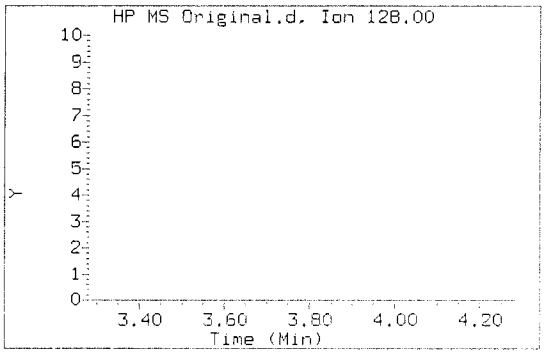
BEFORE
MASS
82
AREA
6674
HEIGHT
960
29-Aug-2022
17:54
ALSHS
Server



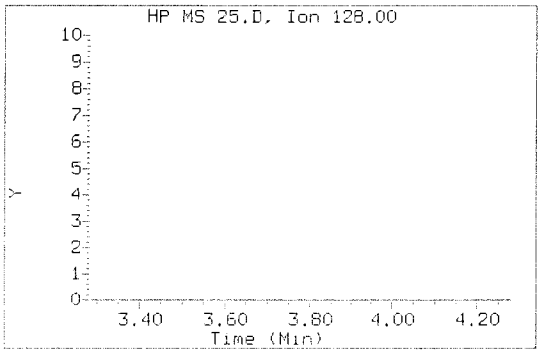
AFTER
MASS
82
AREA
3039
HEIGHT
760
07-Sep-2022
14:22
ALSHS
Ser



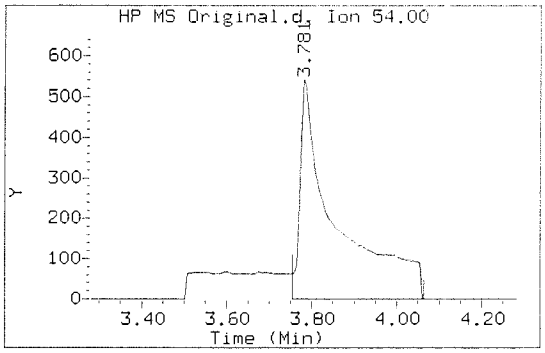
BEFORE
MASS
128
AREA
0
HEIGHT
0
29-Aug-2022
17:54
ALSHS
Server



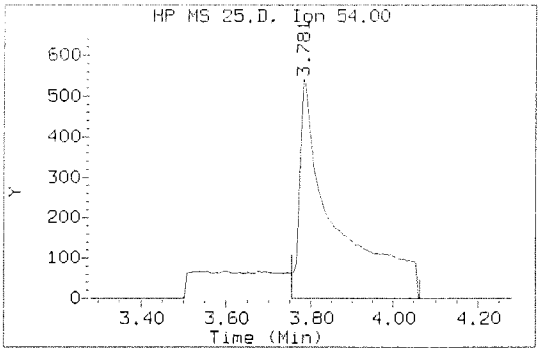
AFTER
MASS
128
AREA
0
HEIGHT
0
07-Sep-2022
14:22
ALSHS
Ser



BEFORE
MASS
54
AREA
3157
HEIGHT
542
29-Aug-2022
17:54
ALSHS
Server



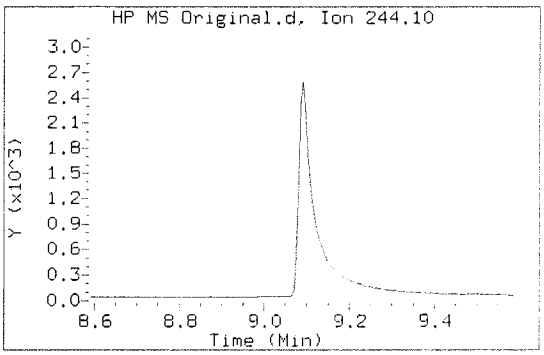
AFTER
MASS
54
AREA
3157
HEIGHT
542
07-Sep-2022
14:22
ALSHS
Ser



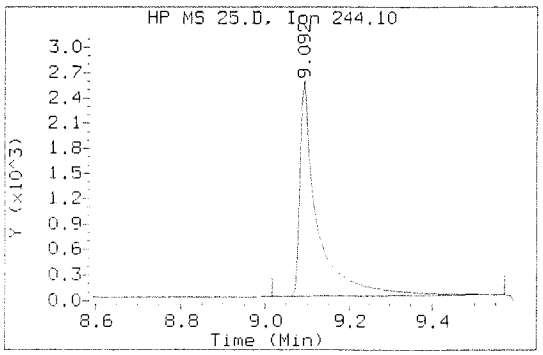
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
0
HEIGHT
0
29-Aug-2022
17:54
ALSHS
Server



AFTER
MASS
244.1
AREA
7278
HEIGHT
1551
07-Sep-2022
14:22
ALSHS
Ser



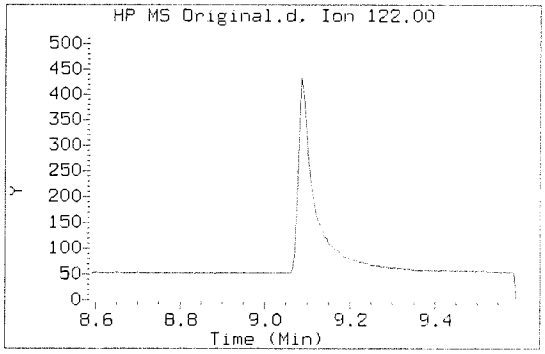
Data File : \\NAHSTWS005\Target\chem\SV6.i\220829.b\25.D
Inj Date : 29-AUG-2022 17:39
InstruID : SV6.i
LabSampID : 1 4-DIOX-CCV

4-Terphenyl-d14 (1718-51-0)

Reason Code:

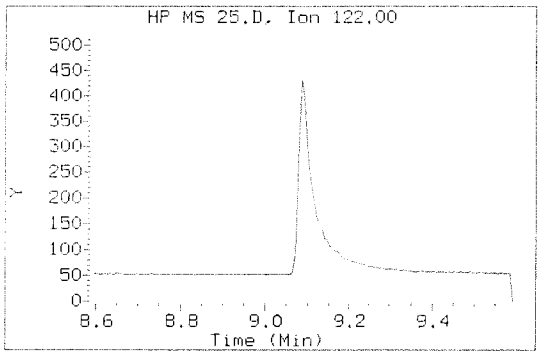
BEFORE

MASS
122
AREA
0
HEIGHT
0
29-Aug-2022
17:54
ALSHS
Server



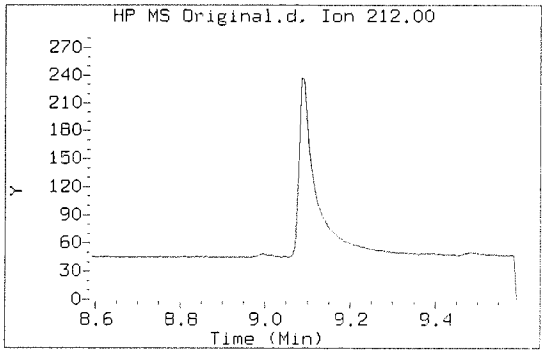
AFTER

MASS
122
AREA
0
HEIGHT
0
07-Sep-2022
14:22
ALSHS
Ser



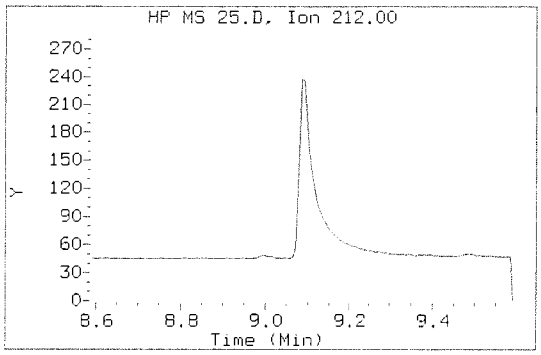
BEFORE

MASS
212
AREA
0
HEIGHT
0
29-Aug-2022
17:54
ALSHS
Server



AFTER

MASS
212
AREA
0
HEIGHT
0
07-Sep-2022
14:22
ALSHS
Ser



HS22080933 - ME - ICP_W_DOD

ALS WO# HS22080933

ALS Houston, US Date: 06-Sep-22

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933
Start Date: 30-Aug-2022 End Date: 31-Aug-2022

Run ID:ICPMS07_416140
Instrument:ICPMS07
Method:

Sample No.	D/F	Time	FileID	Analytes
ICPMS07_416140_Tune	1	30-Aug-2022 00:00	ICPMS07_416140_Tune_1	
CAL BLK	1	30-Aug-2022 12:27	015CALB.d_6826386	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	30-Aug-2022 12:30	016CALS.d_6826387	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	30-Aug-2022 12:32	017CALS.d_6826388	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
10/50/100	1	30-Aug-2022 12:34	018CALS.d_6826389	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	30-Aug-2022 12:36	019CALS.d_6826390	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	30-Aug-2022 12:38	020CALS.d_6826391	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICV	1	30-Aug-2022 12:49	022_ICV.d_6826393	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLICV2	1	30-Aug-2022 12:51	023LCV2.d_6826394	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLICV5	1	30-Aug-2022 12:53	024LCV5.d_6826395	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICB	1	30-Aug-2022 12:55	025_ICB.d_6826396	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSA	1	30-Aug-2022 12:57	026ICSA.d_6826397	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSAB	1	30-Aug-2022 12:59	027ICSB.d_6826398	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	30-Aug-2022 19:54	159CALB.d_6827332	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	30-Aug-2022 19:56	160CALS.d_6827333	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	30-Aug-2022 19:57	161CALS.d_6827334	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
10/50/100	1	30-Aug-2022 19:59	162CALS.d_6827335	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	30-Aug-2022 20:01	163CALS.d_6827336	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	30-Aug-2022 20:03	164CALS.d_6827337	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICCV 1	1	30-Aug-2022 20:07	166_ICV.d_6827339	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLCCV2	1	30-Aug-2022 20:09	167LCV2.d_6827340	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLCCV5	1	30-Aug-2022 20:11	168LCV5.d_6827341	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	30-Aug-2022 20:13	169_ICB.d_6827342	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	30-Aug-2022 20:52	190_CCV.d_6827357	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	30-Aug-2022 20:54	191_CCB.d_6827358	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
MBLK-182759	1	30-Aug-2022 20:56	192SMPL.d_6827359	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LCS-182759	1	30-Aug-2022 20:57	193SMPL.d_6827360	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ZZZZZZMS	1	30-Aug-2022 21:03	196SMPL.d_6827362	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ZZZZZZMSD	1	30-Aug-2022 21:07	198SMPL.d_6827364	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ZZZZZZPDS	1	30-Aug-2022 21:09	199SMPL.d_6827365	AG AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ZZZZZZSD	5	30-Aug-2022 21:11	200SMPL.d_6827366	AG AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN

ALS Houston, US

Date: 06-Sep-22

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933
Start Date: 30-Aug-2022 End Date: 31-Aug-2022

Run ID:ICPMS07_416140
Instrument:ICPMS07
Method:

Sample No.	D/F	Time	FileID	Analytes
CCV 3	1	30-Aug-2022 21:12	201_CCV.d_6827367	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	30-Aug-2022 21:14	202_CCB.d_6827368	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	30-Aug-2022 21:28	209_CCV.d_6827375	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	30-Aug-2022 21:29	210_CCB.d_6827376	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
18CPTMW03SW_081522	1	30-Aug-2022 21:35	213SMPL.d_6827379	AG AL AS BA BE CA CD CO CR CU FE K MG MN NI PB SB SE TL V ZN
MW14_081522	1	30-Aug-2022 21:37	214SMPL.d_6827380	AG AL AS BA BE CA CD CO CR CU FE K MG NI PB SB SE TL V ZN
18WW25_081522	1	30-Aug-2022 21:39	215SMPL.d_6827381	AG AL AS BA BE CA CD CO CR CU FE K MG NA NI PB SB SE TL V ZN
CO6_081522	1	30-Aug-2022 21:41	216SMPL.d_6827382	AG AL AS BA BE CA CD CO CR CU FE K MG MN NI PB SB SE TL V ZN
CCV 5	1	30-Aug-2022 21:46	219_CCV.d_6827385	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	30-Aug-2022 21:48	220_CCB.d_6827386	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	30-Aug-2022 23:13	256_CCV.d_6827882	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	30-Aug-2022 23:14	257_CCB.d_6827883	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	30-Aug-2022 23:20	260_CCV.d_6827886	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	30-Aug-2022 23:22	261_CCB.d_6827887	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	30-Aug-2022 23:33	267_CCV.d_6827893	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	30-Aug-2022 23:35	268_CCB.d_6827894	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	30-Aug-2022 23:44	273_CCV.d_6827899	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	30-Aug-2022 23:46	274_CCB.d_6827900	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	30-Aug-2022 23:57	280CALB.d_6827913	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	30-Aug-2022 23:59	281CALS.d_6827914	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	31-Aug-2022 00:01	282CALS.d_6827915	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
10/50/100	1	31-Aug-2022 00:03	283CALS.d_6827916	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	31-Aug-2022 00:05	284CALS.d_6827917	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	31-Aug-2022 00:07	285CALS.d_6827918	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICCV 10	1	31-Aug-2022 00:11	287_ICV.d_6827920	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLCCV2	1	31-Aug-2022 00:12	288LCV2.d_6827921	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLCCV5	1	31-Aug-2022 00:14	289LCV5.d_6827922	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICCB 10	1	31-Aug-2022 00:16	290_ICB.d_6827923	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	31-Aug-2022 00:20	292_CCV.d_6827925	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	31-Aug-2022 00:22	293_CCB.d_6827926	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	31-Aug-2022 00:31	298_CCV.d_6827931	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: 06-Sep-22

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933
Start Date: 30-Aug-2022 End Date: 31-Aug-2022

Run ID:ICPMS07_416140
Instrument:ICPMS07
Method:

Sample No.	D/F	Time	FileID	Analytes
CCB 12	1	31-Aug-2022 00:33	299_CCB.d_6827932	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	31-Aug-2022 00:48	307_CCV.d_6827940	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	31-Aug-2022 00:50	308_CCB.d_6827941	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 14	1	31-Aug-2022 01:05	316_CCV.d_6827949	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	31-Aug-2022 01:07	317_CCB.d_6827950	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLCCV2	1	31-Aug-2022 01:11	319LCV2.d_6827952	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLCCV5	1	31-Aug-2022 01:13	320LCV5.d_6827953	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSA	1	31-Aug-2022 01:14	321ICSA.d_6827954	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSAB	1	31-Aug-2022 01:16	322ICSB.d_6827955	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: 06-Sep-22

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933
Start Date: 31-Aug-2022 End Date: 31-Aug-2022

Run ID:ICPMS07_416222
Instrument:ICPMS07
Method:

Sample No.	D/F	Time	FileID	Analytes
ICPMS07_416222_Tune	1	31-Aug-2022 00:00	ICPMS07_416222_Tune_1	
CAL BLK	1	31-Aug-2022 10:36	010CALB.d_6828512	AL MN NA
2/10/200	1	31-Aug-2022 10:38	011CALS.d_6828513	AL MN NA
5/25/500	1	31-Aug-2022 10:41	012CALS.d_6828514	AL MN NA
10/50/100	1	31-Aug-2022 10:43	013CALS.d_6828515	AL MN NA
100/500/10K	1	31-Aug-2022 10:45	014CALS.d_6828516	AL MN NA
200/1000/20K	1	31-Aug-2022 10:47	015CALS.d_6828517	AL MN NA
ICV	1	31-Aug-2022 10:51	016_ICV.d_6828518	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLICV2	1	31-Aug-2022 10:52	017LCV2.d_6828519	AL MN NA
LLICV5	1	31-Aug-2022 10:54	018LCV5.d_6828520	AL MN NA
ICB	1	31-Aug-2022 10:56	019_ICB.d_6828521	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSA	1	31-Aug-2022 11:02	020ICSA.d_6828522	AL MN NA
ICSAB	1	31-Aug-2022 11:04	021ICSB.d_6828523	AL MN NA
CCV 1	1	31-Aug-2022 11:42	035_CCV.d_6828559	AL MN NA
CCB 1	1	31-Aug-2022 11:44	036_CCB.d_6828560	AL MN NA
18CPTMW03SW_081522	20	31-Aug-2022 12:08	043SMPL.d_6828564	NA
MW14_081522	20	31-Aug-2022 12:10	044SMPL.d_6828565	MN NA
18WW25_081522	20	31-Aug-2022 12:12	045SMPL.d_6828566	MN
CO6_081522	20	31-Aug-2022 12:14	046SMPL.d_6828567	NA
CCV 2	1	31-Aug-2022 12:16	047_CCV.d_6828568	AL MN NA
CCB 2	1	31-Aug-2022 12:18	048_CCB.d_6828569	AL MN NA
CCV 3	1	31-Aug-2022 12:43	059_CCV.d_6828782	AL MN NA
CCB 3	1	31-Aug-2022 12:45	060_CCB.d_6828783	AL MN NA
ZZZZZZSD	25	31-Aug-2022 12:49	062SMPL.d_6828785	AL
ZZZZZZPDS	5	31-Aug-2022 12:51	063SMPL.d_6828786	AL
CCV 4	1	31-Aug-2022 13:06	071_CCV.d_6828788	AL MN NA
CCB 4	1	31-Aug-2022 13:08	072_CCB.d_6828789	AL MN NA
CCV 5	1	31-Aug-2022 13:29	083_CCV.d_6828906	AL MN NA
CCB 5	1	31-Aug-2022 13:30	084_CCB.d_6828907	AL MN NA
CCV 6	1	31-Aug-2022 13:51	095_CCV.d_6828918	AL MN NA
CCB 6	1	31-Aug-2022 13:53	096_CCB.d_6828919	AL MN NA
CCV 7	1	31-Aug-2022 16:18	154_CCV.d_6829373	AL MN NA
CCB 7	1	31-Aug-2022 16:19	155_CCB.d_6829374	AL MN NA
CCV 8	1	31-Aug-2022 16:48	166_CCV.d_6829380	AL MN NA
CCB 8	1	31-Aug-2022 16:50	167_CCB.d_6829381	AL MN NA
CCV 9	1	31-Aug-2022 17:43	189_CCV.d_6829558	AL MN NA
CCB 9	1	31-Aug-2022 17:45	190_CCB.d_6829559	AL MN NA
CCV 10	1	31-Aug-2022 18:08	201_CCV.d_6829570	AL MN NA
CCB 10	1	31-Aug-2022 18:10	202_CCB.d_6829571	AL MN NA
CCV 11	1	31-Aug-2022 18:31	213_CCV.d_6829582	AL MN NA
CCB 11	1	31-Aug-2022 18:32	214_CCB.d_6829583	AL MN NA
CCV 12	1	31-Aug-2022 18:54	225_CCV.d_6829594	AL MN NA
CCB 12	1	31-Aug-2022 18:56	226_CCB.d_6829595	AL MN NA

ALS Houston, US

Date: 06-Sep-22

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

Run ID: ICPMS07_416140
Instrument: ICPMS07
Method: SW6020A

ICV | Date: 30-Aug-2022 12:49 | Seq: 6826393 | ICV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	97.503	98	90-110	
Antimony	100	100.848	101	90-110	
Arsenic	100	104.803	105	90-110	
Barium	100	100.564	101	90-110	
Beryllium	100	100.061	100	90-110	
Cadmium	100	100.231	100	90-110	
Calcium	10000	9876.287	99	90-110	
Chromium	100	96.847	97	90-110	
Cobalt	100	104.443	104	90-110	
Copper	100	96.591	97	90-110	
Iron	10000	9866.559	99	90-110	
Lead	100	96.253	96	90-110	
Magnesium	10000	9822.235	98	90-110	
Manganese	100	100.978	101	90-110	
Nickel	100	101.103	101	90-110	
Potassium	10000	9868.575	99	90-110	
Selenium	100	102.971	103	90-110	
Silver	100	103.018	103	90-110	
Sodium	10000	9777.25	98	90-110	
Thallium	100	104.252	104	90-110	
Vanadium	100	101.058	101	90-110	
Zinc	100	101.704	102	90-110	

ICCV1 | Date: 30-Aug-2022 20:07 | Seq: 6827339 | CCV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	96.328	96	90-110	
Antimony	100	93.97	94	90-110	
Arsenic	100	101.667	102	90-110	
Barium	100	98.173	98	90-110	
Beryllium	100	99.108	99	90-110	
Cadmium	100	98.256	98	90-110	
Calcium	10000	9728.881	97	90-110	
Chromium	100	95.663	96	90-110	
Cobalt	100	99.825	100	90-110	
Copper	100	93.794	94	90-110	
Iron	10000	9732.134	97	90-110	
Lead	100	96.648	97	90-110	
Magnesium	10000	9803.295	98	90-110	
Manganese	100	99.082	99	90-110	
Nickel	100	99.508	100	90-110	
Potassium	10000	9688.155	97	90-110	
Selenium	100	99.68	100	90-110	
Silver	100	101.001	101	90-110	
Sodium	10000	9783.95	98	90-110	
Thallium	100	102.482	102	90-110	
Vanadium	100	98.608	99	90-110	
Zinc	100	98.389	98	90-110	

CCV2 | Date: 30-Aug-2022 20:52 | Seq: 6827357 | CCV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	99.15	99	90-110	
Antimony	100	95.486	96	90-110	
Arsenic	100	99.531	100	90-110	
Barium	100	99.368	99	90-110	
Beryllium	100	95.569	96	90-110	

ALS Houston, US Date: 06-Sep-22

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

Run ID: ICPMS07_416140
Instrument: ICPMS07
Method: SW6020A

CCV2 Date: 30-Aug-2022 20:52 Seq: 6827357 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Cadmium	100	97.741	98	90-110	
Calcium	10000	9790.293	98	90-110	
Chromium	100	96.945	97	90-110	
Cobalt	100	102.858	103	90-110	
Copper	100	96.17	96	90-110	
Iron	10000	10075.153	101	90-110	
Lead	100	97.178	97	90-110	
Magnesium	10000	10055.277	101	90-110	
Manganese	100	99.13	99	90-110	
Nickel	100	100.473	100	90-110	
Potassium	10000	9956.439	100	90-110	
Selenium	100	97.662	98	90-110	
Silver	100	101.144	101	90-110	
Sodium	10000	10035.777	100	90-110	
Thallium	100	102.122	102	90-110	
Vanadium	100	100.211	100	90-110	
Zinc	100	100.819	101	90-110	

CCV3 Date: 30-Aug-2022 21:12 Seq: 6827367 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	96.728	97	90-110	
Antimony	100	95.508	96	90-110	
Arsenic	100	100.3	100	90-110	
Barium	100	98.317	98	90-110	
Beryllium	100	96.405	96	90-110	
Cadmium	100	98.306	98	90-110	
Calcium	10000	9779.842	98	90-110	
Chromium	100	96.782	97	90-110	
Cobalt	100	101.792	102	90-110	
Copper	100	95.315	95	90-110	
Iron	10000	10033.701	100	90-110	
Lead	100	96.934	97	90-110	
Magnesium	10000	9953.435	100	90-110	
Manganese	100	99.175	99	90-110	
Nickel	100	100.165	100	90-110	
Potassium	10000	9804.878	98	90-110	
Selenium	100	97.953	98	90-110	
Silver	100	99.973	100	90-110	
Sodium	10000	9945.567	100	90-110	
Thallium	100	101.272	101	90-110	
Vanadium	100	100.242	100	90-110	
Zinc	100	99.524	100	90-110	

CCV4 Date: 30-Aug-2022 21:28 Seq: 6827375 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	95.582	96	90-110	
Antimony	100	96.082	96	90-110	
Arsenic	100	99.896	100	90-110	
Barium	100	98.771	99	90-110	
Beryllium	100	96.271	96	90-110	
Cadmium	100	97.8	98	90-110	
Calcium	10000	9695.725	97	90-110	
Chromium	100	96.798	97	90-110	
Cobalt	100	100.333	100	90-110	
Copper	100	96.286	96	90-110	

ALS Houston, US Date: 06-Sep-22

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

Run ID: ICPMS07_416140
Instrument: ICPMS07
Method: SW6020A

CCV4 Date: 30-Aug-2022 21:28 Seq: 6827375 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Iron	10000	10021.355	100	90-110	
Lead	100	97.302	97	90-110	
Magnesium	10000	9956.848	100	90-110	
Manganese	100	98.741	99	90-110	
Nickel	100	100.422	100	90-110	
Potassium	10000	9817.279	98	90-110	
Selenium	100	98.066	98	90-110	
Silver	100	100.984	101	90-110	
Sodium	10000	10026.572	100	90-110	
Thallium	100	102.032	102	90-110	
Vanadium	100	100.408	100	90-110	
Zinc	100	100.247	100	90-110	

CCV5 Date: 30-Aug-2022 21:46 Seq: 6827385 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	94.898	95	90-110	
Antimony	100	95.412	95	90-110	
Arsenic	100	99.378	99	90-110	
Barium	100	99.397	99	90-110	
Beryllium	100	97.713	98	90-110	
Cadmium	100	98.075	98	90-110	
Calcium	10000	9681.416	97	90-110	
Chromium	100	96.52	97	90-110	
Cobalt	100	100.997	101	90-110	
Copper	100	96.255	96	90-110	
Iron	10000	9951.447	100	90-110	
Lead	100	98.475	99	90-110	
Magnesium	10000	9918.308	99	90-110	
Manganese	100	98.455	99	90-110	
Nickel	100	100.288	100	90-110	
Potassium	10000	9734.741	97	90-110	
Selenium	100	96.753	97	90-110	
Silver	100	100.998	101	90-110	
Sodium	10000	9821.776	98	90-110	
Thallium	100	104.073	104	90-110	
Vanadium	100	99.8	100	90-110	
Zinc	100	101.139	101	90-110	

CCV6 Date: 30-Aug-2022 23:13 Seq: 6827882 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	100.176	100	90-110	
Antimony	100	93.174	93	90-110	
Arsenic	100	99.207	99	90-110	
Barium	100	98.045	98	90-110	
Beryllium	100	99.536	100	90-110	
Cadmium	100	97.668	98	90-110	
Calcium	10000	9788.883	98	90-110	
Chromium	100	96.607	97	90-110	
Cobalt	100	100.256	100	90-110	
Copper	100	95.305	95	90-110	
Iron	10000	9977.458	100	90-110	
Lead	100	96.466	97	90-110	
Magnesium	10000	9808.681	98	90-110	
Manganese	100	98.834	99	90-110	
Nickel	100	100.116	100	90-110	

ALS Houston, US

Date: 06-Sep-22

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

Run ID: ICPMS07_416140
Instrument: ICPMS07
Method: SW6020A

CCV6 Date: 30-Aug-2022 23:13 Seq: 6827882 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Potassium	10000	9902.702	99	90-110	
Selenium	100	97.239	97	90-110	
Silver	100	101.337	101	90-110	
Sodium	10000	9883.454	99	90-110	
Thallium	100	100.079	100	90-110	
Vanadium	100	99.826	100	90-110	
Zinc	100	100.435	100	90-110	

CCV7 Date: 30-Aug-2022 23:20 Seq: 6827886 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	98.774	99	90-110	
Antimony	100	93.683	94	90-110	
Arsenic	100	98.709	99	90-110	
Barium	100	99.303	99	90-110	
Beryllium	100	99.191	99	90-110	
Cadmium	100	98.668	99	90-110	
Calcium	10000	9769.64	98	90-110	
Chromium	100	96.126	96	90-110	
Cobalt	100	100.465	100	90-110	
Copper	100	95.284	95	90-110	
Iron	10000	9888.533	99	90-110	
Lead	100	98.646	99	90-110	
Magnesium	10000	9789.785	98	90-110	
Manganese	100	98.426	98	90-110	
Nickel	100	99.846	100	90-110	
Potassium	10000	9789.28	98	90-110	
Selenium	100	97.577	98	90-110	
Silver	100	100.773	101	90-110	
Sodium	10000	9888.434	99	90-110	
Thallium	100	102.639	103	90-110	
Vanadium	100	99.641	100	90-110	
Zinc	100	99.209	99	90-110	

CCV8 Date: 30-Aug-2022 23:33 Seq: 6827893 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	107.577	108	90-110	
Antimony	100	91.963	92	90-110	
Arsenic	100	98.773	99	90-110	
Barium	100	98.374	98	90-110	
Beryllium	100	100.876	101	90-110	
Cadmium	100	97.2	97	90-110	
Calcium	10000	9574.934	96	90-110	
Chromium	100	94.765	95	90-110	
Cobalt	100	100.462	100	90-110	
Copper	100	95.516	96	90-110	
Iron	10000	9899.159	99	90-110	
Lead	100	96.815	97	90-110	
Magnesium	10000	9610.447	96	90-110	
Manganese	100	97.116	97	90-110	
Nickel	100	98.869	99	90-110	
Potassium	10000	9784.547	98	90-110	
Selenium	100	96.074	96	90-110	
Silver	100	99.894	100	90-110	
Sodium	10000	9684.947	97	90-110	
Thallium	100	100.09	100	90-110	

ALS Houston, US Date: 06-Sep-22

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

Run ID: ICPMS07_416140
Instrument: ICPMS07
Method: SW6020A

CCV8 Date: 30-Aug-2022 23:33 Seq: 6827893 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Vanadium	100	98.978	99	90-110	
Zinc	100	99.346	99	90-110	

CCV9 Date: 30-Aug-2022 23:44 Seq: 6827899 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	109.06	109	90-110	
Antimony	100	92.941	93	90-110	
Arsenic	100	99.238	99	90-110	
Barium	100	97.609	98	90-110	
Beryllium	100	110.396	110	90-110	
Cadmium	100	96.339	96	90-110	
Calcium	10000	9704.748	97	90-110	
Chromium	100	95.602	96	90-110	
Cobalt	100	101.384	101	90-110	
Copper	100	96.178	96	90-110	
Iron	10000	9912.336	99	90-110	
Lead	100	96.303	96	90-110	
Magnesium	10000	9726.473	97	90-110	
Manganese	100	97.739	98	90-110	
Nickel	100	100.001	100	90-110	
Potassium	10000	9856.808	99	90-110	
Selenium	100	95.485	96	90-110	
Silver	100	99.366	99	90-110	
Sodium	10000	9720.257	97	90-110	
Thallium	100	101.356	101	90-110	
Vanadium	100	99.875	100	90-110	
Zinc	100	99.313	99	90-110	

ICCV10 Date: 31-Aug-2022 00:11 Seq: 6827920 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	93.654	94	90-110	
Antimony	100	94.378	94	90-110	
Arsenic	100	100.936	101	90-110	
Barium	100	97.477	98	90-110	
Beryllium	100	102.922	103	90-110	
Cadmium	100	98.868	99	90-110	
Calcium	10000	9801.586	98	90-110	
Chromium	100	94.945	95	90-110	
Cobalt	100	101.941	102	90-110	
Copper	100	94.499	95	90-110	
Iron	10000	9779.372	98	90-110	
Lead	100	95.922	96	90-110	
Magnesium	10000	9910.79	99	90-110	
Manganese	100	98.792	99	90-110	
Nickel	100	99.868	100	90-110	
Potassium	10000	9842.547	98	90-110	
Selenium	100	100.119	100	90-110	
Silver	100	102.594	103	90-110	
Sodium	10000	9840.704	98	90-110	
Thallium	100	102.479	102	90-110	
Vanadium	100	102.206	102	90-110	
Zinc	100	101.244	101	90-110	

ALS Houston, US Date: 06-Sep-22

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

Run ID: ICPMS07_416140
Instrument: ICPMS07
Method: SW6020A

CCV11 Date: 31-Aug-2022 00:20 Seq: 6827925 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	102.372	102	90-110	
Antimony	100	94.284	94	90-110	
Arsenic	100	102.352	102	90-110	
Barium	100	98.372	98	90-110	
Beryllium	100	103.41	103	90-110	
Cadmium	100	100.498	100	90-110	
Calcium	10000	10089.345	101	90-110	
Chromium	100	97.443	97	90-110	
Cobalt	100	103.188	103	90-110	
Copper	100	96.656	97	90-110	
Iron	10000	10123.131	101	90-110	
Lead	100	96.936	97	90-110	
Magnesium	10000	10074.858	101	90-110	
Manganese	100	101.539	102	90-110	
Nickel	100	101.451	101	90-110	
Potassium	10000	10185.564	102	90-110	
Selenium	100	103.074	103	90-110	
Silver	100	103.286	103	90-110	
Sodium	10000	10076.544	101	90-110	
Thallium	100	101.1	101	90-110	
Vanadium	100	103.823	104	90-110	
Zinc	100	102.407	102	90-110	

CCV12 Date: 31-Aug-2022 00:31 Seq: 6827931 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	108.808	109	90-110	
Antimony	100	94.804	95	90-110	
Arsenic	100	101.347	101	90-110	
Barium	100	96.606	97	90-110	
Beryllium	100	105.54	106	90-110	
Cadmium	100	99.164	99	90-110	
Calcium	10000	9989.616	100	90-110	
Chromium	100	96.499	97	90-110	
Cobalt	100	102.933	103	90-110	
Copper	100	96.356	96	90-110	
Iron	10000	10033.003	100	90-110	
Lead	100	98.318	98	90-110	
Magnesium	10000	10139.4	101	90-110	
Manganese	100	101.608	102	90-110	
Nickel	100	100.576	101	90-110	
Potassium	10000	10019.695	100	90-110	
Selenium	100	102.658	103	90-110	
Silver	100	101.457	101	90-110	
Sodium	10000	10098.467	101	90-110	
Thallium	100	102.351	102	90-110	
Vanadium	100	103.422	103	90-110	
Zinc	100	101.579	102	90-110	

CCV13 Date: 31-Aug-2022 00:48 Seq: 6827940 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	102.971	103	90-110	
Antimony	100	95.437	95	90-110	
Arsenic	100	101.662	102	90-110	
Barium	100	98.238	98	90-110	
Beryllium	100	104.197	104	90-110	

ALS Houston, US Date: 06-Sep-22

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

Run ID: ICPMS07_416140
Instrument: ICPMS07
Method: SW6020A

CCV13 Date: 31-Aug-2022 00:48 Seq: 6827940 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Cadmium	100	100.064	100	90-110	
Calcium	10000	9891.571	99	90-110	
Chromium	100	96.549	97	90-110	
Cobalt	100	104.431	104	90-110	
Copper	100	96.777	97	90-110	
Iron	10000	10238.056	102	90-110	
Lead	100	96.595	97	90-110	
Magnesium	10000	10142.866	101	90-110	
Manganese	100	101.209	101	90-110	
Nickel	100	102.541	103	90-110	
Potassium	10000	10116.017	101	90-110	
Selenium	100	101.294	101	90-110	
Silver	100	103.59	104	90-110	
Sodium	10000	10102.074	101	90-110	
Thallium	100	100.93	101	90-110	
Vanadium	100	103.394	103	90-110	
Zinc	100	102.469	102	90-110	

CCV14 Date: 31-Aug-2022 01:05 Seq: 6827949 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	106.762	107	90-110	
Antimony	100	94.669	95	90-110	
Arsenic	100	100.726	101	90-110	
Barium	100	97.777	98	90-110	
Beryllium	100	105.898	106	90-110	
Cadmium	100	99.712	100	90-110	
Calcium	10000	9899.662	99	90-110	
Chromium	100	96.702	97	90-110	
Cobalt	100	103.786	104	90-110	
Copper	100	96.373	96	90-110	
Iron	10000	10117.89	101	90-110	
Lead	100	96.588	97	90-110	
Magnesium	10000	10019.863	100	90-110	
Manganese	100	100.289	100	90-110	
Nickel	100	100.555	101	90-110	
Potassium	10000	10112.558	101	90-110	
Selenium	100	99.515	100	90-110	
Silver	100	102.143	102	90-110	
Sodium	10000	9882.853	99	90-110	
Thallium	100	102.153	102	90-110	
Vanadium	100	102.887	103	90-110	
Zinc	100	101.327	101	90-110	

ALS Houston, US

Date: 06-Sep-22

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

Run ID: ICPMS07_416222
Instrument: ICPMS07
Method: SW6020A

ICV | Date: 31-Aug-2022 10:51 | Seq: 6828518 | ICV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	96.879	97	90-110	
Manganese	100	98.39	98	90-110	
Sodium	10000	9834.845	98	90-110	

CCV1 | Date: 31-Aug-2022 11:42 | Seq: 6828559 | CCV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	99.964	100	90-110	
Manganese	100	104.368	104	90-110	
Sodium	10000	10488.254	105	90-110	

CCV2 | Date: 31-Aug-2022 12:16 | Seq: 6828568 | CCV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	101.174	101	90-110	
Manganese	100	100.151	100	90-110	
Sodium	10000	10069.207	101	90-110	

CCV3 | Date: 31-Aug-2022 12:43 | Seq: 6828782 | CCV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	101.645	102	90-110	
Manganese	100	106.074	106	90-110	
Sodium	10000	10560.985	106	90-110	

CCV4 | Date: 31-Aug-2022 13:06 | Seq: 6828788 | CCV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	100.226	100	90-110	
Manganese	100	105.532	106	90-110	
Sodium	10000	10655.184	107	90-110	

CCV5 | Date: 31-Aug-2022 13:29 | Seq: 6828906 | CCV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	98.435	98	90-110	
Manganese	100	105.256	105	90-110	
Sodium	10000	10510.121	105	90-110	

CCV6 | Date: 31-Aug-2022 13:51 | Seq: 6828918 | CCV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	98.134	98	90-110	
Manganese	100	105.33	105	90-110	
Sodium	10000	10568.335	106	90-110	

CCV7 | Date: 31-Aug-2022 16:18 | Seq: 6829373 | CCV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	92.637	93	90-110	
Manganese	100	98.304	98	90-110	
Sodium	10000	10002.663	100	90-110	

CCV8 | Date: 31-Aug-2022 16:48 | Seq: 6829380 | CCV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	92.159	92	90-110	
Manganese	100	99.22	99	90-110	
Sodium	10000	9980.735	100	90-110	

CCV9 | Date: 31-Aug-2022 17:43 | Seq: 6829558 | CCV | Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	93.44	93	90-110	

ALS Houston, US

Date: 06-Sep-22

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

Run ID: ICPMS07_416222
Instrument: ICPMS07
Method: SW6020A

CCV9	Date: 31-Aug-2022 17:43		Seq: 6829558	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Manganese	100	97.998	98	90-110	
Sodium	10000	9899.989	99	90-110	

CCV10	Date: 31-Aug-2022 18:08		Seq: 6829570	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	91.185	91	90-110	
Manganese	100	97.838	98	90-110	
Sodium	10000	10003.491	100	90-110	

CCV11	Date: 31-Aug-2022 18:31		Seq: 6829582	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	93.649	94	90-110	
Manganese	100	98.562	99	90-110	
Sodium	10000	10192.383	102	90-110	

CCV12	Date: 31-Aug-2022 18:54		Seq: 6829594	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Aluminum	100	92.461	93	90-110	
Manganese	100	97.726	98	90-110	
Sodium	10000	10175.524	102	90-110	

ALS Houston, US

Date: 06-Sep-22

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

Run ID: ICPMS07_416140
Instrument: ICPMS07
Method: SW6020A

ICB	Date: 30-Aug-2022 12:55		Seq: 6826396	ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Antimony	5	0.4	5	U	
Arsenic	5	0.4	5	U	
Barium	5	1.9	5	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	5	0.4	5	U	
Cobalt	5	0.1	5	U	
Copper	5	1	5	U	
Iron	200	12	200	U	
Lead	5	0.6	5	U	
Magnesium	200	10	200	U	
Manganese	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: 30-Aug-2022 20:13		Seq: 6827342	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-2.142	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	200	14	200	U	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB2	Date: 30-Aug-2022 20:54		Seq: 6827358	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	

ALS Houston, US

Date: 06-Sep-22

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

Run ID: ICPMS07_416140
Instrument: ICPMS07
Method: SW6020A

CCB2	Date: 30-Aug-2022 20:54		Seq: 6827358	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	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

MBLK-182759	Date: 30-Aug-2022 20:56		Seq: 6827359	MBLK	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	4.275	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	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	11.44	10	200	J	
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	

CCB3	Date: 30-Aug-2022 21:14		Seq: 6827368	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-1.991	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	

ALS Houston, US

Date: 06-Sep-22

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

Run ID: ICPMS07_416140
Instrument: ICPMS07
Method: SW6020A

CCB3	Date: 30-Aug-2022 21:14		Seq: 6827368	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	200	14	200	U	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB4	Date: 30-Aug-2022 21:29		Seq: 6827376	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	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB5	Date: 30-Aug-2022 21:48		Seq: 6827386	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-1.852	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	

ALS Houston, US

Date: 06-Sep-22

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

Run ID: ICPMS07_416140
Instrument: ICPMS07
Method: SW6020A

CCB5	Date: 30-Aug-2022 21:48		Seq: 6827386	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	200	14	200	U	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB6	Date: 30-Aug-2022 23:14		Seq: 6827883	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	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB7	Date: 30-Aug-2022 23:22		Seq: 6827887	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	2	0.2	2	U	

ALS Houston, US

Date: 06-Sep-22

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

Run ID: ICPMS07_416140
Instrument: ICPMS07
Method: SW6020A

CCB7	Date: 30-Aug-2022 23:22		Seq: 6827887	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB8	Date: 30-Aug-2022 23:35		Seq: 6827894	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	7.445	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	-14.79	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB9	Date: 30-Aug-2022 23:46		Seq: 6827900	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	12.51	1.8	10		
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	16.13	12	200	J	
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	-16.69	14	200	J	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

ALS Houston, US Date: 06-Sep-22

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

Run ID: ICPMS07_416140
Instrument: ICPMS07
Method: SW6020A

ICCB10	Date: 31-Aug-2022 00:16		Seq: 6827923	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-8.825	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	200	14	200	U	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB11	Date: 31-Aug-2022 00:22		Seq: 6827926	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-9.214	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	-12.85	12	200	J	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	-0.609	0.6	2	J	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	200	14	200	U	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB12	Date: 31-Aug-2022 00:33		Seq: 6827932	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-2.288	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	

ALS Houston, US

Date: 06-Sep-22

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

Run ID: ICPMS07_416140
Instrument: ICPMS07
Method: SW6020A

CCB12	Date: 31-Aug-2022 00:33		Seq: 6827932	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	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB13	Date: 31-Aug-2022 00:50		Seq: 6827941	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	2.096	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	200	14	200	U	
Thallium	2	0.2	2	U	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB14	Date: 31-Aug-2022 01:07		Seq: 6827950	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	3.843	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	

ALS Houston, US

Date: 06-Sep-22

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

Run ID: ICPMS07_416140
Instrument: ICPMS07
Method: SW6020A

CCB14 | Date: 31-Aug-2022 01:07 | Seq: 6827950 | 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	200	14	200	U
Thallium	2	0.2	2	U
Vanadium	5	0.6	5	U
Zinc	4	2	4	U

ALS Houston, US Date: 06-Sep-22

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

Run ID: ICPMS07_416222
Instrument: ICPMS07
Method: SW6020A

ICB	Date: 31-Aug-2022 10:56		Seq: 6828521	ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-2.953	1.8	10	J	
Manganese	5	0.7	5	U	
Sodium	200	14	200	U	

CCB1	Date: 31-Aug-2022 11:44		Seq: 6828560	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-2.311	1.8	10	J	
Manganese	5	0.7	5	U	
Sodium	200	14	200	U	

CCB2	Date: 31-Aug-2022 12:18		Seq: 6828569	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-2.051	1.8	10	J	
Manganese	5	0.7	5	U	
Sodium	200	14	200	U	

CCB3	Date: 31-Aug-2022 12:45		Seq: 6828783	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-2.019	1.8	10	J	
Manganese	5	0.7	5	U	
Sodium	200	14	200	U	

CCB4	Date: 31-Aug-2022 13:08		Seq: 6828789	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Manganese	5	0.7	5	U	
Sodium	200	14	200	U	

CCB5	Date: 31-Aug-2022 13:30		Seq: 6828907	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Manganese	5	0.7	5	U	
Sodium	200	14	200	U	

CCB6	Date: 31-Aug-2022 13:53		Seq: 6828919	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	10	1.8	10	U	
Manganese	5	0.7	5	U	
Sodium	200	14	200	U	

CCB7	Date: 31-Aug-2022 16:19		Seq: 6829374	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-2.954	1.8	10	J	
Manganese	5	0.7	5	U	
Sodium	200	14	200	U	

CCB8	Date: 31-Aug-2022 16:50		Seq: 6829381	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-2.804	1.8	10	J	
Manganese	5	0.7	5	U	
Sodium	31.47	14	200	J	

CCB9	Date: 31-Aug-2022 17:45		Seq: 6829559	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-2.831	1.8	10	J	
Manganese	5	0.7	5	U	

ALS Houston, US

Date: 06-Sep-22

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

Run ID: ICPMS07_416222
Instrument: ICPMS07
Method: SW6020A

CCB9	Date: 31-Aug-2022 17:45		Seq: 6829559	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Sodium	27.37	14	200	J	
CCB10	Date: 31-Aug-2022 18:10		Seq: 6829571	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-3.094	1.8	10	J	
Manganese	5	0.7	5	U	
Sodium	32.27	14	200	J	
CCB11	Date: 31-Aug-2022 18:32		Seq: 6829583	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-2.816	1.8	10	J	
Manganese	5	0.7	5	U	
Sodium	67.65	14	200	J	
CCB12	Date: 31-Aug-2022 18:56		Seq: 6829595	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-2.728	1.8	10	J	
Manganese	5	0.7	5	U	
Sodium	113.6	14	200	J	

ALS Houston, US

Date: 06-Sep-22

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

Run ID:ICPMS07_416140
Instrument:ICPMS07
Method:SW6020A

ICSA	Date: 30-Aug-2022 12:57	Seq: 6826397	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100000	96260	96.3	
Antimony		0.088	0	
Arsenic		0.026	0	
Barium		0.533	0	
Beryllium		0.004	0	
Cadmium		1.01	0	
Calcium	100000	104300	104	
Chromium		1.462	0	
Cobalt		0.11	0	
Copper		0.051	0	
Iron	100000	98310	98.3	
Lead		0.041	0	
Magnesium	100000	100000	100	
Manganese		0.286	0	
Nickel		0.404	0	
Potassium	100000	99450	99.5	
Selenium		0.108	0	
Silver		0.003	0	
Sodium	100000	100400	100	
Thallium		0.004	0	
Vanadium		-0.087	0	
Zinc		0.304	0	

ICSAB	Date: 30-Aug-2022 12:59	Seq: 6826398	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100500	94440	94.0	
Antimony	100	96.54	96.5	
Arsenic	100	96.52	96.5	
Barium	100	96.35	96.3	
Beryllium	100	91.8	91.8	
Cadmium	100	94.51	94.5	
Calcium	110000	112600	102	
Chromium	100	94.01	94.0	
Cobalt	100	94.6	94.6	
Copper	100	89.46	89.5	
Iron	110000	106300	96.6	
Lead	100	91.44	91.4	
Magnesium	110000	107800	98.0	
Manganese	100	96.4	96.4	
Nickel	100	94.72	94.7	
Potassium	110000	106800	97.1	
Selenium	100	97.34	97.3	
Silver	100	92.32	92.3	
Sodium	110000	108000	98.2	
Thallium	100	95.86	95.9	
Vanadium	100	97.98	98.0	
Zinc	100	96.46	96.5	

ICSA	Date: 31-Aug-2022 01:14	Seq: 6827954	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100000	100200	100	
Antimony		0.08	0	
Arsenic		0.032	0	
Barium		0.408	0	

ALS Houston, US

Date: 06-Sep-22

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

Run ID:ICPMS07_416140
Instrument:ICPMS07
Method:SW6020A

ICSA	Date: 31-Aug-2022 01:14	Seq: 6827954	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Beryllium		-0.016	0	
Cadmium		0.732	0	
Calcium	100000	104100	104	
Chromium		1.446	0	
Cobalt		0.096	0	
Copper		-0.797	0	
Iron	100000	98100	98.1	
Lead		0.032	0	
Magnesium	100000	100200	100	
Manganese		0.653	0	
Nickel		-0.169	0	
Potassium	100000	98880	98.9	
Selenium		0.367	0	
Silver		0.004	0	
Sodium	100000	101500	102	
Thallium		-0.002	0	
Vanadium		-0.045	0	
Zinc		0.843	0	

ICSAB	Date: 31-Aug-2022 01:16	Seq: 6827955	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100500	96780	96.3	
Antimony	100	90.62	90.6	
Arsenic	100	96.76	96.8	
Barium	100	95.9	95.9	
Beryllium	100	96.89	96.9	
Cadmium	100	93.58	93.6	
Calcium	110000	112800	103	
Chromium	100	92.59	92.6	
Cobalt	100	92.75	92.8	
Copper	100	88.24	88.2	
Iron	110000	105800	96.2	
Lead	100	93.82	93.8	
Magnesium	110000	107700	97.9	
Manganese	100	95.68	95.7	
Nickel	100	94.22	94.2	
Potassium	110000	106500	96.9	
Selenium	100	96.42	96.4	
Silver	100	93.02	93.0	
Sodium	110000	107200	97.4	
Thallium	100	97.62	97.6	
Vanadium	100	99.2	99.2	
Zinc	100	98.3	98.3	

ALS Houston, US Date: 06-Sep-22

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

Run ID: ICPMS07_416222
Instrument: ICPMS07
Method: SW6020A

ICSA	Date: 31-Aug-2022 11:02	Seq: 6828522	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100000	94490	94.5	
Manganese		0.322	0	
Sodium	100000	99940	99.9	

ICSAB	Date: 31-Aug-2022 11:04	Seq: 6828523	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100500	92130	91.7	
Manganese	100	95.22	95.2	
Sodium	110000	106400	96.7	

ALS Houston, US Date: 06-Sep-22

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

Date Analyzed: 30-Aug-2022 21:07
Date Extracted: 23-Aug-2022 10:00
Units: ug/L

Matrix Spike: HS22080927-01MS
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	74.82	206.3	100.0	132	209.3	100.0	134	84-117	1.41	20
Antimony	5.000	49.16	50.00	98.2	48.56	50.00	97.0	85-117	1.22	20
Arsenic	5.000	52.21	50.00	104	51.75	50.00	103	84-116	0.877	20
Barium	54.91	106.8	50.00	104	106.3	50.00	103	86-114	0.435	20
Beryllium	2.000	51.82	50.00	104	50.54	50.00	101	83-121	2.50	20
Cadmium	2.000	51.47	50.00	103	51.58	50.00	103	87-115	0.210	20
Calcium	1716	6814	5000	102	6779	5000	101	87-118	0.526	20
Chromium	117.5	175.8	50.00	117	172.8	50.00	111	85-116	1.69	20
Cobalt	0.3090	48.55	50.00	96.5	48.24	50.00	95.9	86-115	0.641	20
Copper	5.000	50.36	50.00	99.8	50.27	50.00	99.7	85-118	0.175	20
Iron	502.7	5603	5000	102	5536	5000	101	87-118	1.21	20
Lead	5.000	49.44	50.00	98.7	49.30	50.00	98.4	88-115	0.284	20
Magnesium	1081	6322	5000	105	6269	5000	104	83-118	0.849	20
Manganese	4.060	54.72	50.00	101	54.56	50.00	101	87-115	0.296	20
Nickel	43.66	93.99	50.00	101	93.66	50.00	100	85-117	0.352	20
Potassium	738.3	5841	5000	102	5803	5000	101	87-115	0.656	20
Selenium	4.197	54.68	50.00	101	53.40	50.00	98.4	80-120	2.36	20
Silver	5.000	45.04	50.00	90.1	44.79	50.00	89.6	85-116	0.563	20
Sodium	39660	44330	5000	93.5	43980	5000	86.4	85-117	0.795	20
Thallium	2.000	52.24	50.00	104	51.76	50.00	103	82-116	0.919	20
Vanadium	5.000	51.16	50.00	102	50.96	50.00	101	86-115	0.403	20
Zinc	4.188	57.39	50.00	106	57.69	50.00	107	83-119	0.518	20

ALS Houston, US

Date: 06-Sep-22

Form 5B - Post Digest Sample Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

Date Analyzed: 30-Aug-2022 21:09
Date Extracted: 23-Aug-2022 10:00
Units: ug/L

Lab Sample ID: HS22080927-01PDS
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	PDS Result	Spike Amount	% Rec	% Rec Limits
Antimony	0	96.54	100	97	80-120
Arsenic	0	102.3	100	102	80-120
Barium	54.91	153.5	100	99	80-120
Beryllium	0	100.7	100	101	80-120
Cadmium	0	99.96	100	100	80-120
Calcium	1716	11530	10000	98	80-120
Chromium	117.5	214.9	100	97	80-120
Cobalt	0.309	101	100	101	80-120
Copper	0	98.05	100	98	80-120
Iron	502.7	10400	10000	99	80-120
Lead	0	98.34	100	98	80-120
Magnesium	1081	11030	10000	99	80-120
Manganese	4.06	102.1	100	98	80-120
Nickel	43.66	142.5	100	99	80-120
Potassium	738.3	10550	10000	98	80-120
Selenium	4.197	103.4	100	99	80-120
Silver	0	100.2	100	100	80-120
Sodium	39660	47970	10000	83	80-120
Thallium	0	101.3	100	101	80-120
Vanadium	0	100.6	100	100	80-120
Zinc	4.188	109.4	100	105	80-120

ALS Houston, US

Date: 06-Sep-22

Form 5B - Post Digest Sample Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

Date Analyzed: 31-Aug-2022 12:51
Date Extracted: 23-Aug-2022 10:00
Units: ug/L

Lab Sample ID: HS22080927-01PDS
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	PDS Result	Spike Amount	% Rec	% Rec Limits
Aluminum	106.7	565.6	500	92	80-120

ALS Houston, US

Date: 06-Sep-22

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

Date Analyzed: 30-Aug-2022 20:57
Date Extracted: 23-Aug-2022 10:00
Units: ug/L

Lab Sample ID: LCS-182759
Analysis Method: SW6020A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Aluminum	100	100.5	101	84-117
Antimony	50	50	100	85-117
Arsenic	50	52.88	106	84-116
Barium	50	51.24	102	86-114
Beryllium	50	52.78	106	83-121
Cadmium	50	51.32	103	87-115
Calcium	5000	5231	105	87-118
Chromium	50	50.31	101	85-116
Cobalt	50	49.22	98	86-115
Copper	50	51.01	102	85-118
Iron	5000	5232	105	87-118
Lead	50	50.29	101	88-115
Magnesium	5000	5336	107	83-118
Manganese	50	52.35	105	87-115
Nickel	50	52.44	105	85-117
Potassium	5000	5221	104	87-115
Selenium	50	52.35	105	80-120
Silver	50	46.21	92	85-116
Sodium	5000	5156	103	85-117
Thallium	50	52.8	106	82-116
Vanadium	50	51.89	104	86-115
Zinc	50	55.32	111	83-119

ALS Houston, US

Date: 06-Sep-22

Form 8 - ICP Serial Dilutions

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

Date Analyzed: 30-Aug-2022 21:11
Date Extracted: 23-Aug-2022 10:00
Units: ug/L

Lab Sample ID: HS22080927-01SD
Client Sample ID:

Analysis Method: SW6020A

Analyte	Sample Result	C	SD Result	C	RPD	Q
Antimony	0	U	0	U	0	
Arsenic	0	U	0	U	0	
Barium	54.91		54.97		0	
Beryllium	0	U	0	U	0	
Cadmium	0	U	0	U	0	
Calcium	1716		1809	J	5	
Chromium	117.5		119.6		2	
Cobalt	0.309	J	0	U	0	
Copper	0	U	0	U	0	
Iron	502.7		483.4	J	4	
Lead	0	U	0	U	0	
Magnesium	1081		1105		2	
Manganese	4.06	J	4.123	J	2	
Nickel	43.66		42.78		2	
Potassium	738.3		719.4	J	3	
Selenium	4.197	J	0	U	0	
Silver	0	U	0	U	0	
Sodium	39660		40290		2	
Thallium	0	U	0	U	0	
Vanadium	0	U	0	U	0	
Zinc	4.188	J	0	U	0	

ALS Houston, US

Date: 06-Sep-22

Form 8 - ICP Serial Dilutions

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS22080933

Date Analyzed: 31-Aug-2022 12:49
Date Extracted: 23-Aug-2022 10:00
Units: ug/L

Lab Sample ID: HS22080927-01SD
Client Sample ID:

Analysis Method: SW6020A

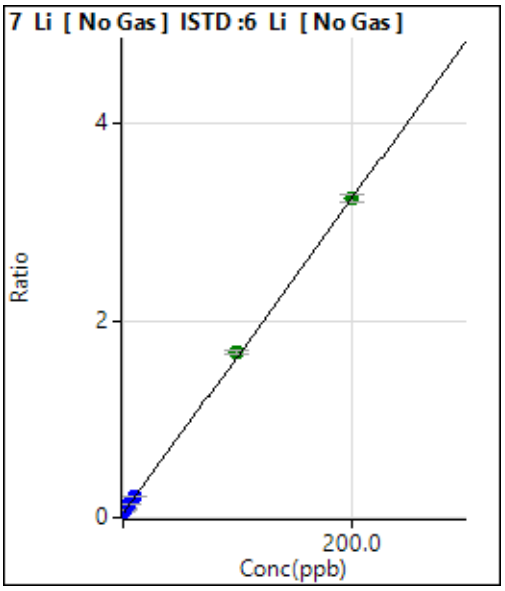
Analyte	Sample Result	C	SD Result	C	RPD	Q
Aluminum	106.7		90.55	J	15	

Calibration for 287_ICV.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\083022A.b\
Analysis File: 083022A.batch.bin
DA Date-Time: 08/31/2022 00:11:43
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	280CALB.d	CAL BLK	08/30/2022 23:57:34
2	281CALS.d	2/10/200	08/30/2022 23:59:32
3	282CALS.d	5/25/500	08/31/2022 00:01:31
4	283CALS.d	10/50/100	08/31/2022 00:03:29
5	284CALS.d	100/500/10K	08/31/2022 00:05:27
6	285CALS.d	200/1000/20K	08/31/2022 00:07:19

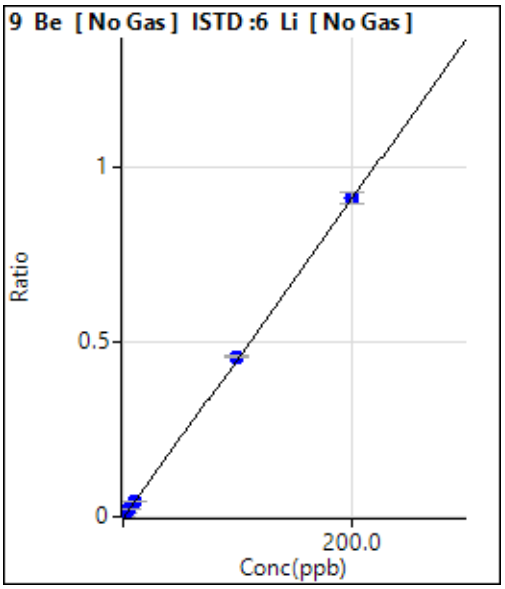
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	35112.09	0.0592	P	1.0	
2	☐	2.000	1.785	51776.75	0.0877	P	1.5	-10.7
3	☐	5.000	4.676	76590.64	0.1339	P	2.6	-6.5
4	☐	10.000	9.324	121069.99	0.2082	P	0.7	-6.8
5	☐	100.000	101.604	958770.32	1.6822	A	1.9	1.6
6	☐	200.000	199.242	1905125.23	3.2419	A	2.6	-0.4

y = 0.0160 * x + 0.0592
R = 0.9999
DL = 0.1082 ppb
BEC = 3.707 ppb

Weight: <None>
Min Conc: <None>

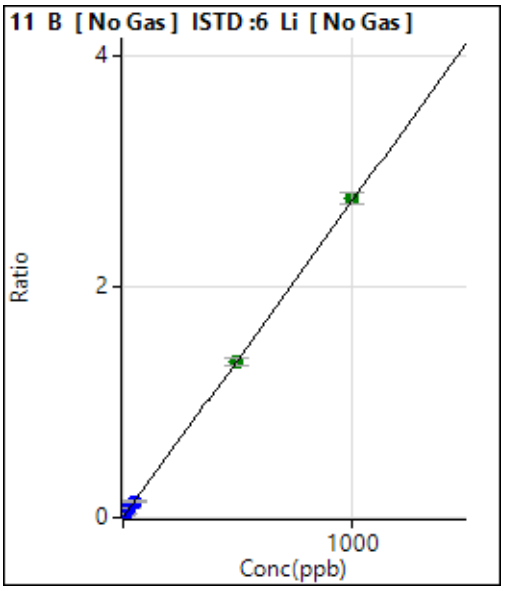


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	56.67	0.0001	P	17.8	
2	☐	2.000	2.006	5457.77	0.0092	P	1.9	0.3
3	☐	5.000	4.883	12800.88	0.0224	P	1.6	-2.3
4	☐	10.000	10.009	26616.95	0.0458	P	2.0	0.1
5	☐	100.000	100.429	261271.58	0.4584	P	0.4	0.4
6	☐	200.000	199.788	535764.17	0.9118	P	3.4	-0.1

y = 0.0046 * x + 9.5521E-005
R = 1.0000
DL = 0.0112 ppb
BEC = 0.02093 ppb

Weight: <None>
Min Conc: <None>

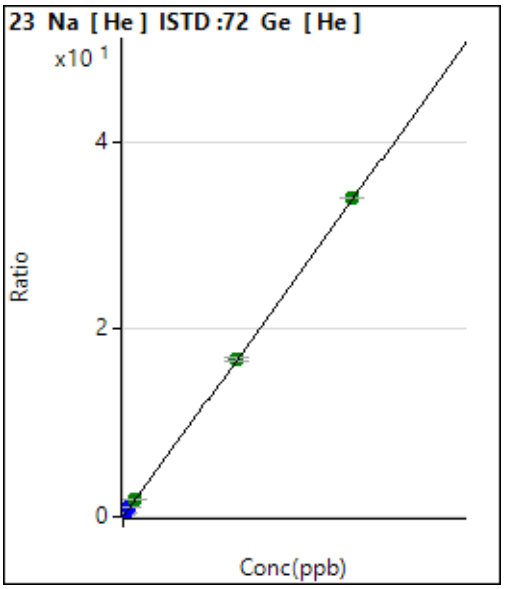
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	9149.72	0.0154	P	2.0	
2	☐	10.000	8.606	23028.99	0.0390	P	0.9	-13.9
3	☐	25.000	22.088	43457.09	0.0760	P	1.0	-11.6
4	☐	50.000	45.726	81862.28	0.1408	P	2.5	-8.5
5	☐	500.000	488.850	772679.39	1.3553	A	4.2	-2.2
6	☐	1000.000	1005.876	1628882.89	2.7724	A	4.0	0.6

y = 0.0027 * x + 0.0154
R = 0.9999
DL = 0.3424 ppb
BEC = 5.631 ppb

Weight: <None>
Min Conc: <None>

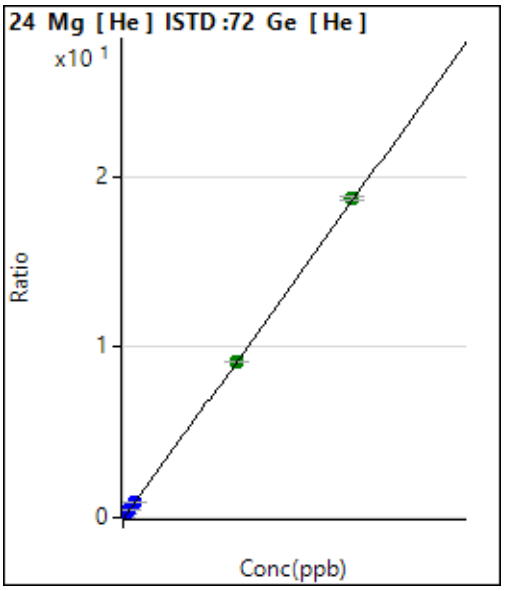


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	97807.67	0.1575	P	0.9	
2	☐	200.000	183.927	291536.45	0.4678	P	1.1	-8.0
3	☐	500.000	468.023	570962.72	0.9472	P	0.7	-6.4
4	☐	1000.000	1046.715	1191140.09	1.9237	A	0.8	4.7
5	☐	10000.00	9843.042	10326270.05	16.7663	A	2.1	-1.6
6	☐	20000.00	20077.10	20768848.44	34.0350	A	0.6	0.4

y = 0.0017 * x + 0.1575
R = 1.0000
DL = 2.612 ppb
BEC = 93.31 ppb

Weight: <None>
Min Conc: <None>

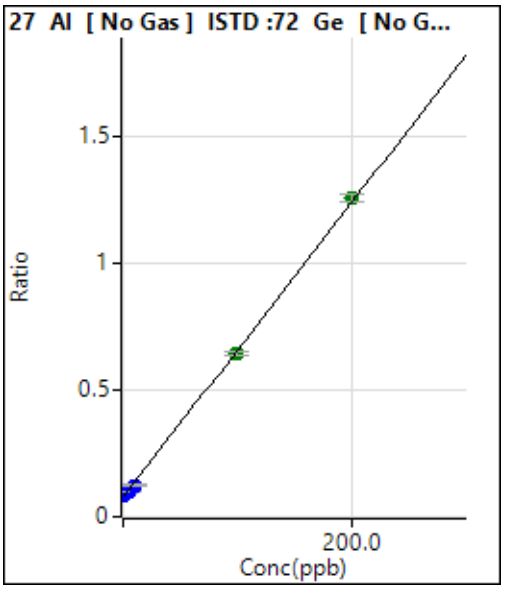
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3287.13	0.0053	P	4.6	
2	☐	200.000	182.387	109218.73	0.1753	P	1.1	-8.8
3	☐	500.000	462.555	263016.69	0.4363	P	1.0	-7.5
4	☐	1000.000	927.017	538195.35	0.8692	P	0.8	-7.3
5	☐	10000.00	9803.372	5630186.59	9.1409	A	0.5	-2.0
6	☐	20000.00	20103.07	11434710.25	18.7390	A	0.9	0.5

y = 9.3188E-004 * x + 0.0053
R = 0.9999
DL = 0.7886 ppb
BEC = 5.68 ppb

Weight: <None>
Min Conc: <None>

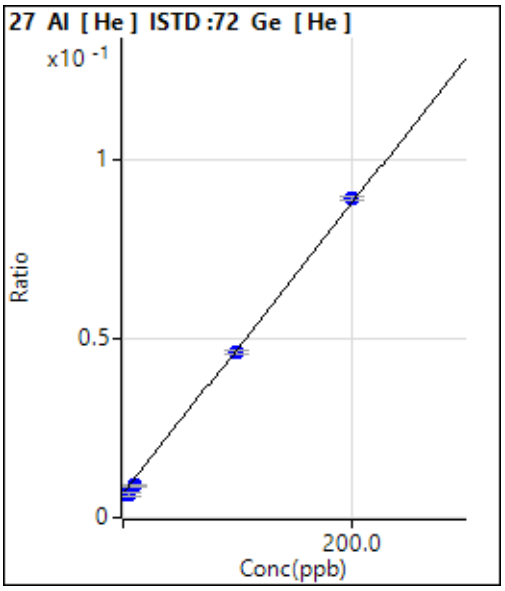


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	210310.03	0.0846	P	5.2	
2	☐	2.000	1.886	234696.10	0.0955	P	6.5	-5.7
3	☐	5.000	2.643	241424.97	0.0999	P	2.0	-47.1
4	☐	10.000	6.889	307412.00	0.1245	P	4.9	-31.1
5	☐	100.000	96.353	1595027.16	0.6436	A	2.0	-3.6
6	☐	200.000	202.039	3001751.93	1.2567	A	2.8	1.0

y = 0.0058 * x + 0.0846
R = 0.9997
DL = 2.257 ppb
BEC = 14.58 ppb

Weight: <None>
Min Conc: <None>

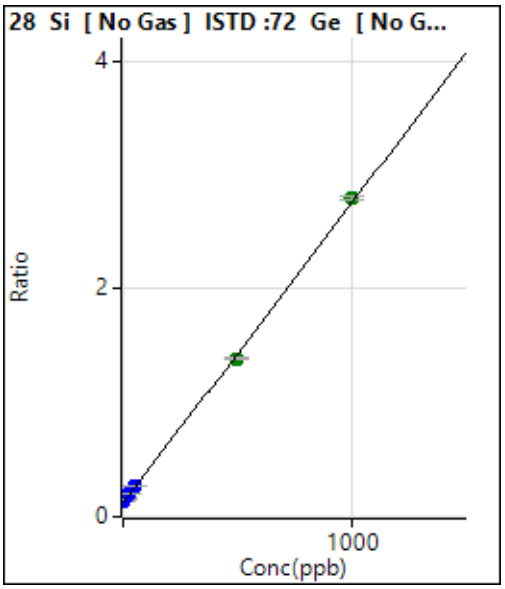
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4547.49	0.0073	P	4.1	
2	☐	2.000	-2.508	3930.66	0.0063	P	13.7	-225.4
3	☐	5.000	-2.219	3873.95	0.0064	P	10.7	-144.4
4	☐	10.000	4.298	5607.91	0.0091	P	4.5	-57.0
5	☐	100.000	96.205	28446.03	0.0462	P	1.7	-3.8
6	☐	200.000	202.408	54356.47	0.0891	P	1.7	1.2

y = 4.0394E-004 * x + 0.0073
R = 0.9995
DL = 2.225 ppb
BEC = 18.12 ppb

Weight: <None>
Min Conc: <None>

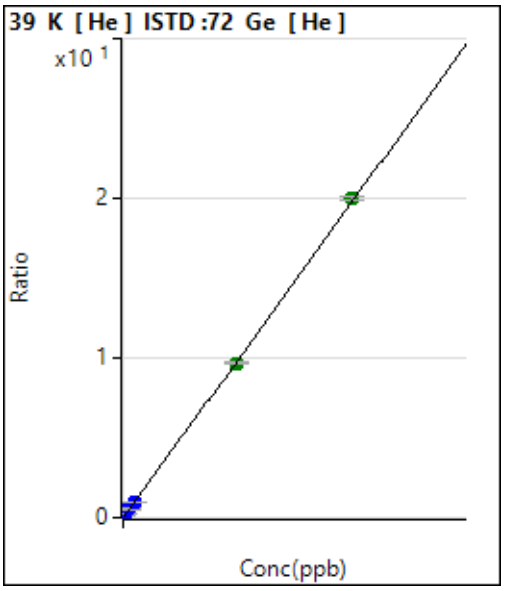


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	329638.03	0.1326	P	1.2	
2	☐	10.000	10.490	393761.89	0.1602	P	1.0	4.9
3	☐	25.000	24.379	475728.36	0.1969	P	1.1	-2.5
4	☐	50.000	50.938	658622.15	0.2668	P	0.2	1.9
5	☐	500.000	476.937	3443467.87	1.3895	A	1.4	-4.6
6	☐	1000.000	1011.495	6685044.28	2.7982	A	0.7	1.1

y = 0.0026 * x + 0.1326
R = 0.9996
DL = 1.794 ppb
BEC = 50.32 ppb

Weight: <None>
Min Conc: <None>

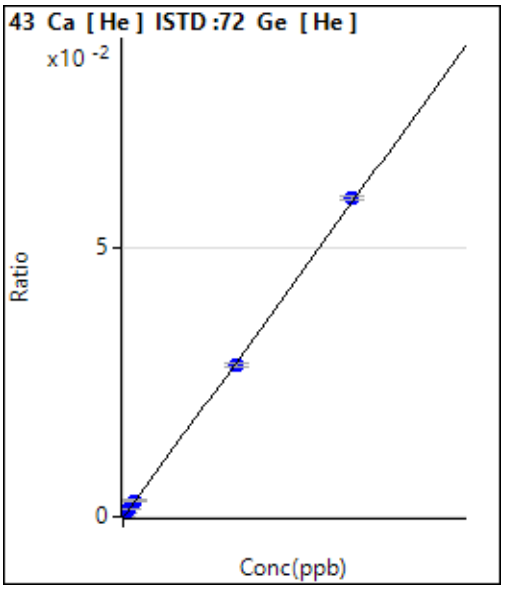
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	54162.92	0.0872	P	1.8	
2	☐	200.000	181.923	166484.77	0.2671	P	1.0	-9.0
3	☐	500.000	462.635	328394.92	0.5448	P	0.8	-7.5
4	☐	1000.000	932.113	624893.96	1.0092	P	0.8	-6.8
5	☐	10000.00	9693.512	5959291.16	9.6754	A	0.9	-3.1
6	☐	20000.00	20157.75	12220016.49	20.0259	A	1.2	0.8

y = 9.8913E-004 * x + 0.0872
R = 0.9998
DL = 4.66 ppb
BEC = 88.15 ppb

Weight: <None>
Min Conc: <None>

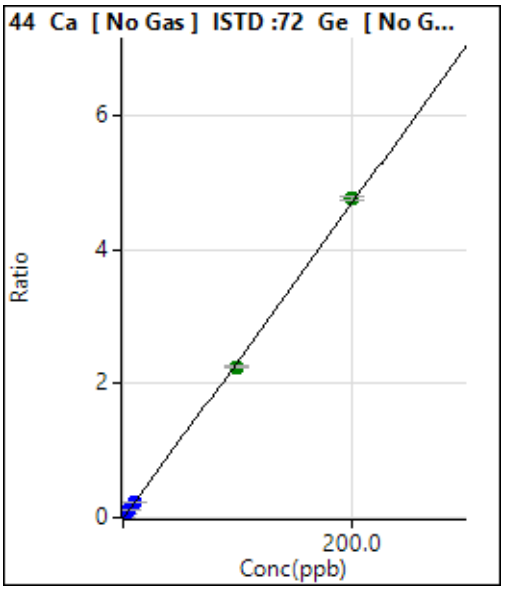


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	60.00	0.0001	P	66.6	
2	☐	200.000	205.875	436.68	0.0007	P	18.1	2.9
3	☐	500.000	498.814	940.05	0.0016	P	4.8	-0.2
4	☐	1000.000	978.260	1836.82	0.0030	P	9.1	-2.2
5	☐	10000.00	9574.120	17358.03	0.0282	P	2.1	-4.3
6	☐	20000.00	20213.99	36244.54	0.0594	P	1.0	1.1

y = 2.9336E-006 * x + 9.6446E-005
R = 0.9997
DL = 65.73 ppb
BEC = 32.88 ppb

Weight: <None>
Min Conc: <None>

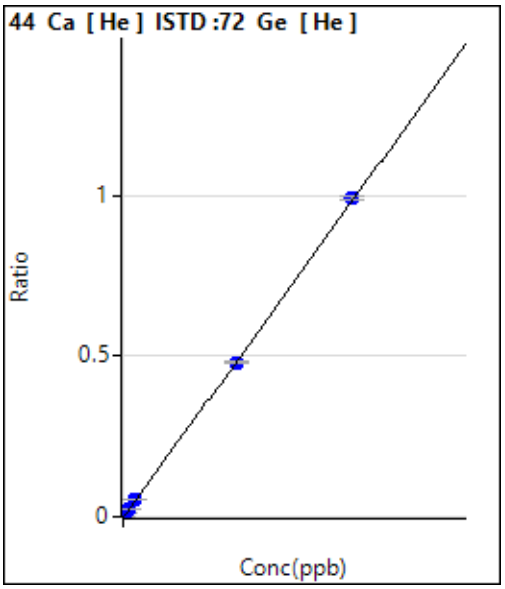
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	23466.98	0.0094	P	1.0	
2	☐	2.000	1.861	130810.66	0.0532	P	1.1	-6.9
3	☐	5.000	4.518	279707.76	0.1157	P	0.9	-9.6
4	☐	10.000	9.260	561047.89	0.2273	P	0.5	-7.4
5	☐	100.000	95.190	5573722.00	2.2491	A	1.1	-4.8
6	☐	200.000	202.455	11401667.75	4.7728	A	1.5	1.2

y = 0.0235 * x + 0.0094
R = 0.9996
DL = 0.0123 ppb
BEC = 0.4012 ppb

Weight: <None>
Min Conc: <None>

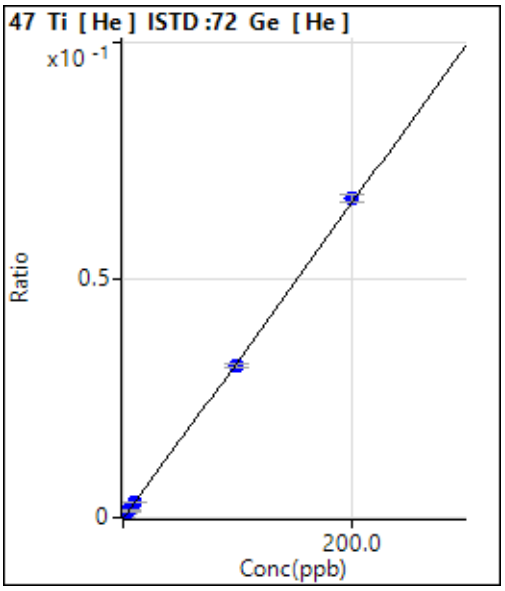


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	863.38	0.0014	P	13.7	
2	☐	200.000	191.748	6751.76	0.0108	P	4.9	-4.1
3	☐	500.000	479.607	15075.17	0.0250	P	2.6	-4.1
4	☐	1000.000	1012.973	31750.17	0.0513	P	1.5	1.3
5	☐	10000.00	9731.236	296014.43	0.4806	P	1.4	-2.7
6	☐	20000.00	20134.32	605900.23	0.9929	P	0.7	0.7

y = 4.9246E-005 * x + 0.0014
R = 0.9999
DL = 11.63 ppb
BEC = 28.23 ppb

Weight: <None>
Min Conc: <None>

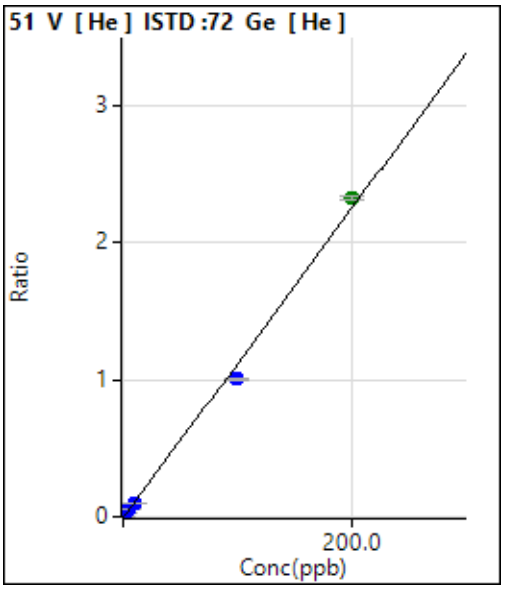
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	33.33	0.0001	P	68.7	
2	☐	2.000	2.306	510.02	0.0008	P	20.4	15.3
3	☐	5.000	4.335	900.05	0.0015	P	11.3	-13.3
4	☐	10.000	9.343	1953.51	0.0032	P	6.1	-6.6
5	☐	100.000	95.807	19620.93	0.0319	P	3.0	-4.2
6	☐	200.000	202.143	40978.11	0.0672	P	1.9	1.1

y = 3.3195E-004 * x + 5.3523E-005
R = 0.9997
DL = 0.3322 ppb
BEC = 0.1612 ppb

Weight: <None>
Min Conc: <None>

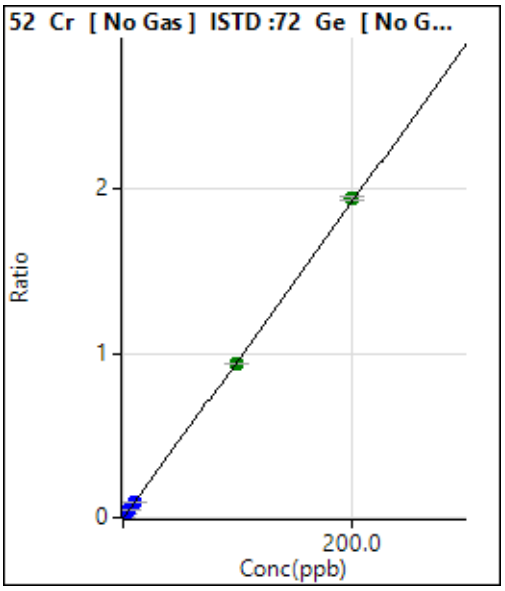


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1901.26	0.0031	P	5.4	
2	☐	2.000	1.770	14339.77	0.0230	P	0.5	-11.5
3	☐	5.000	4.446	32047.41	0.0532	P	1.1	-11.1
4	☐	10.000	8.966	64461.72	0.1041	P	0.4	-10.3
5	☐	100.000	88.582	616744.75	1.0013	P	0.9	-11.4
6	☐	200.000	205.777	1416946.82	2.3221	A	1.1	2.9

y = 0.0113 * x + 0.0031
R = 0.9978
DL = 0.04363 ppb
BEC = 0.2715 ppb

Weight: <None>
Min Conc: <None>

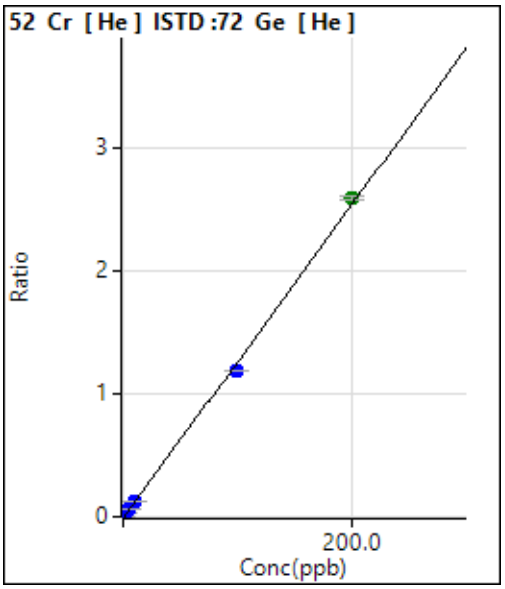
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13743.76	0.0055	P	3.3	
2	☐	2.000	1.948	59619.95	0.0243	P	2.1	-2.6
3	☐	5.000	4.768	124159.48	0.0514	P	2.0	-4.6
4	☐	10.000	9.699	243827.29	0.0988	P	0.3	-3.0
5	☐	100.000	96.841	2321287.26	0.9367	A	0.8	-3.2
6	☐	200.000	201.601	4644214.10	1.9440	A	1.2	0.8

y = 0.0096 * x + 0.0055
R = 0.9998
DL = 0.05689 ppb
BEC = 0.575 ppb

Weight: <None>
Min Conc: <None>

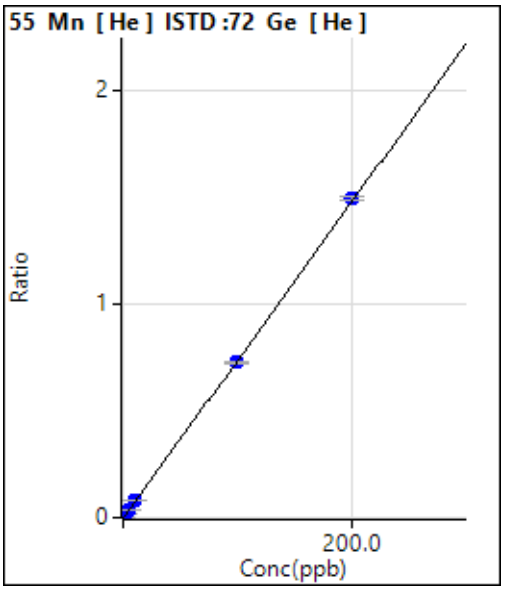


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	713.37	0.0011	P	12.4	
2	☐	2.000	1.958	16233.22	0.0260	P	1.0	-2.1
3	☐	5.000	4.738	37000.28	0.0614	P	2.4	-5.2
4	☐	10.000	9.596	76254.89	0.1231	P	0.0	-4.0
5	☐	100.000	93.150	730160.04	1.1855	P	1.2	-6.9
6	☐	200.000	203.452	1579143.05	2.5879	A	1.6	1.7

y = 0.0127 * x + 0.0011
R = 0.9992
DL = 0.03357 ppb
BEC = 0.09037 ppb

Weight: <None>
Min Conc: <None>

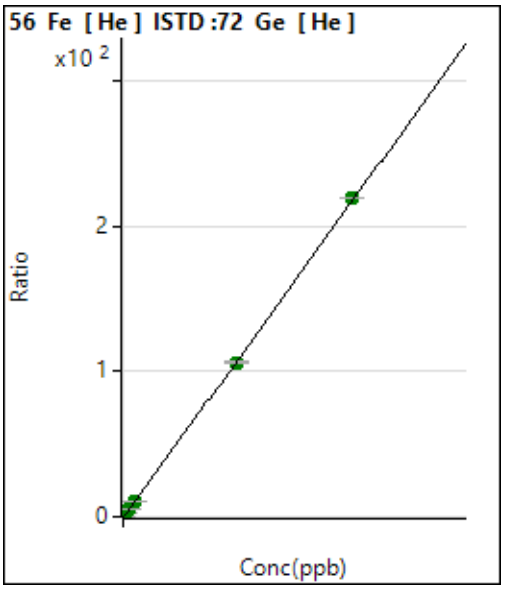
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2490.29	0.0040	P	10.7	
2	☐	2.000	1.826	10934.53	0.0175	P	1.8	-8.7
3	☐	5.000	4.813	23928.03	0.0397	P	0.5	-3.7
4	☐	10.000	9.942	48131.76	0.0777	P	1.2	-0.6
5	☐	100.000	97.371	447164.26	0.7260	P	1.6	-2.6
6	☐	200.000	201.324	913424.34	1.4969	P	0.8	0.7

y = 0.0074 * x + 0.0040
R = 0.9999
DL = 0.1737 ppb
BEC = 0.5404 ppb

Weight: <None>
Min Conc: <None>

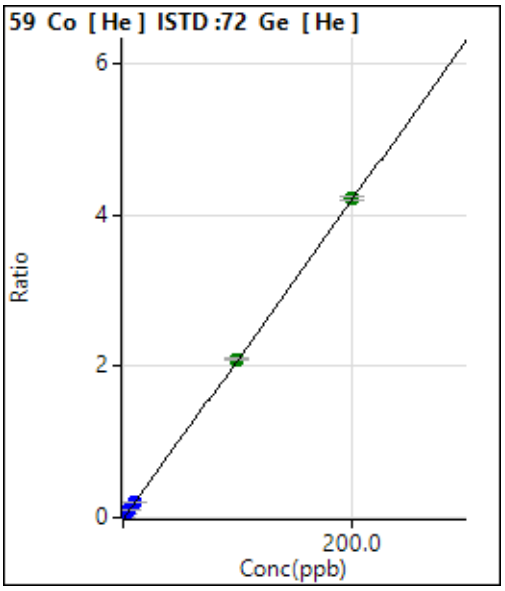


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	152345.24	0.2452	P	8.5	
2	☐	200.000	202.100	1523299.46	2.4444	A	2.4	1.0
3	☐	500.000	502.329	3442906.51	5.7114	A	1.1	0.5
4	☐	1000.000	999.316	6885301.56	11.1195	A	0.4	-0.1
5	☐	10000.00	9726.686	65343027.36	106.088	A	0.7	-2.7
6	☐	20000.00	20136.61	133866304.6	219.366	A	0.4	0.7

y = 0.0109 * x + 0.2452
R = 0.9999
DL = 5.752 ppb
BEC = 22.54 ppb

Weight: <None>
Min Conc: <None>

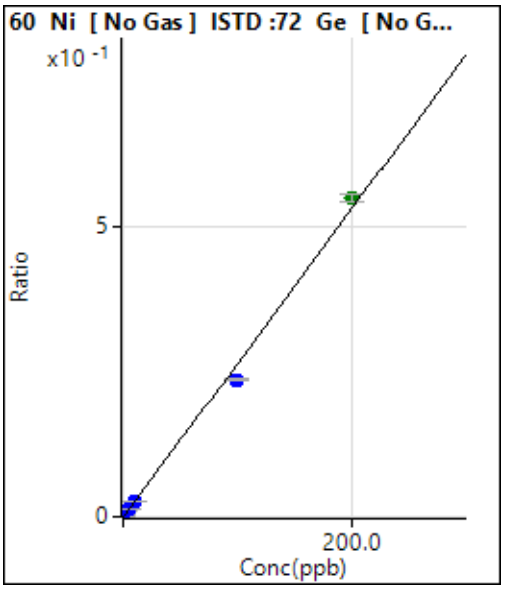
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	283.34	0.0005	P	22.8	
2	☐	2.000	1.905	25343.77	0.0407	P	1.7	-4.7
3	☐	5.000	4.747	60668.22	0.1007	P	2.0	-5.1
4	☐	10.000	9.445	123731.91	0.1998	P	0.4	-5.5
5	☐	100.000	99.519	1294067.01	2.1010	A	0.9	-0.5
6	☐	200.000	200.275	2579996.21	4.2277	A	1.4	0.1

y = 0.0211 * x + 4.5622E-004
R = 1.0000
DL = 0.01481 ppb
BEC = 0.02161 ppb

Weight: <None>
Min Conc: <None>

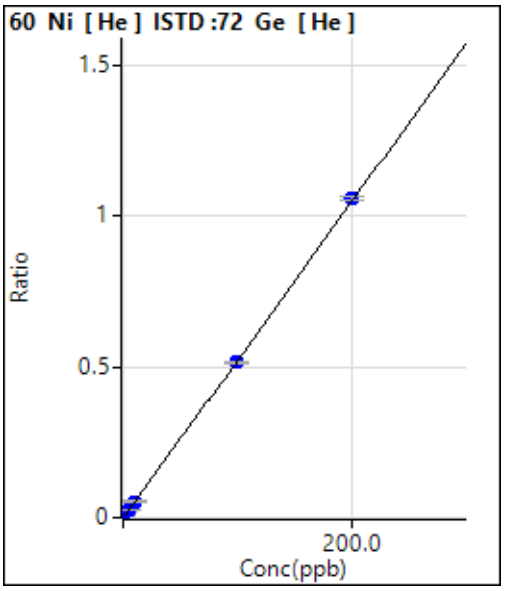


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4070.69	0.0016	P	3.8	
2	☐	2.000	2.761	22021.44	0.0090	P	5.0	38.1
3	☐	5.000	4.093	30200.55	0.0125	P	2.2	-18.1
4	☐	10.000	8.776	61502.27	0.0249	P	1.1	-12.2
5	☐	100.000	88.003	582572.48	0.2351	P	1.0	-12.0
6	☐	200.000	206.075	1309842.51	0.5483	A	2.7	3.0

y = 0.0027 * x + 0.0016
R = 0.9975
DL = 0.07035 ppb
BEC = 0.6171 ppb

Weight: <None>
Min Conc: <None>

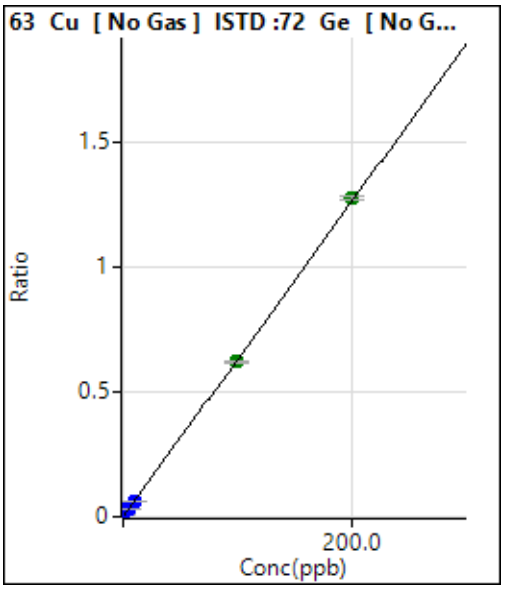
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2186.89	0.0035	P	0.5	
2	☐	2.000	2.932	11785.27	0.0189	P	4.2	46.6
3	☐	5.000	4.422	16113.12	0.0267	P	1.4	-11.6
4	☐	10.000	9.485	33007.03	0.0533	P	3.9	-5.1
5	☐	100.000	97.628	317766.24	0.5159	P	1.6	-2.4
6	☐	200.000	201.217	646600.63	1.0596	P	0.7	0.6

y = 0.0052 * x + 0.0035
R = 0.9999
DL = 0.01013 ppb
BEC = 0.6707 ppb

Weight: <None>
Min Conc: <None>

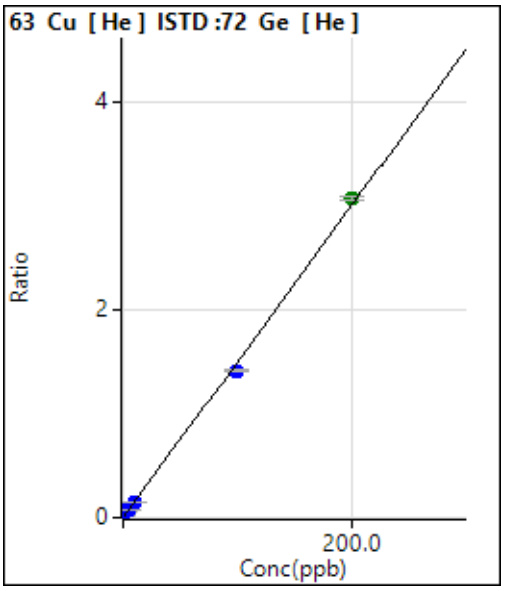


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16063.00	0.0065	P	1.7	
2	☐	2.000	3.445	69159.02	0.0281	P	2.0	72.2
3	☐	5.000	4.210	79649.29	0.0330	P	3.6	-15.8
4	☐	10.000	9.108	157483.83	0.0638	P	0.4	-8.9
5	☐	100.000	97.346	1534871.80	0.6193	A	1.6	-2.7
6	☐	200.000	201.377	3044029.54	1.2743	A	1.7	0.7

y = 0.0063 * x + 0.0065
R = 0.9998
DL = 0.05271 ppb
BEC = 1.026 ppb

Weight: <None>
Min Conc: <None>

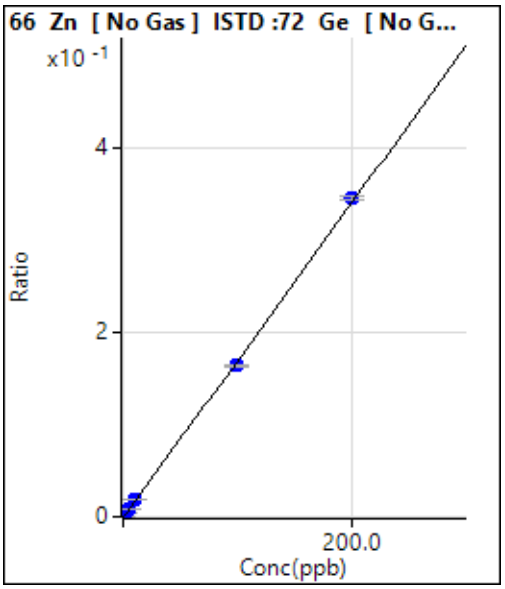
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11081.45	0.0178	P	5.7	
2	☐	2.000	3.138	40433.74	0.0649	P	3.8	56.9
3	☐	5.000	4.093	47747.55	0.0792	P	1.1	-18.1
4	☐	10.000	9.021	94799.09	0.1531	P	1.8	-9.8
5	☐	100.000	93.043	870182.93	1.4128	P	1.0	-7.0
6	☐	200.000	203.539	1873039.29	3.0695	A	1.5	1.8

y = 0.0150 * x + 0.0178
R = 0.9991
DL = 0.2041 ppb
BEC = 1.19 ppb

Weight: <None>
Min Conc: <None>

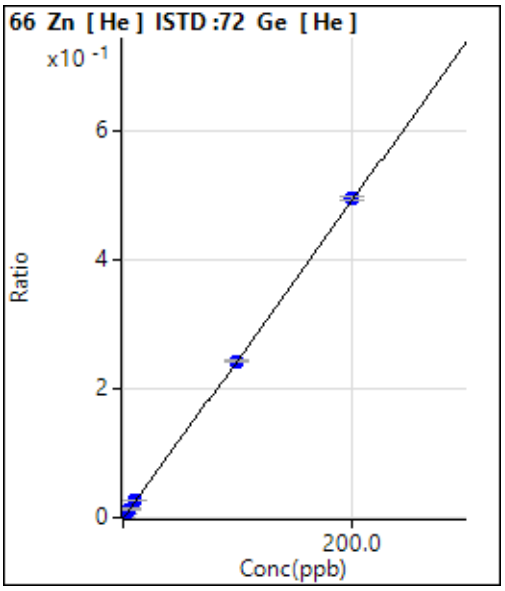


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1263.42	0.0005	P	5.0	
2	☐	2.000	2.115	10127.23	0.0041	P	1.4	5.8
3	☐	5.000	4.915	21517.40	0.0089	P	2.1	-1.7
4	☐	10.000	10.270	44553.36	0.0181	P	0.4	2.7
5	☐	100.000	95.552	405708.51	0.1637	P	1.6	-4.4
6	☐	200.000	202.212	826340.17	0.3459	P	1.6	1.1

y = 0.0017 * x + 5.0822E-004
R = 0.9996
DL = 0.04495 ppb
BEC = 0.2975 ppb

Weight: <None>
Min Conc: <None>

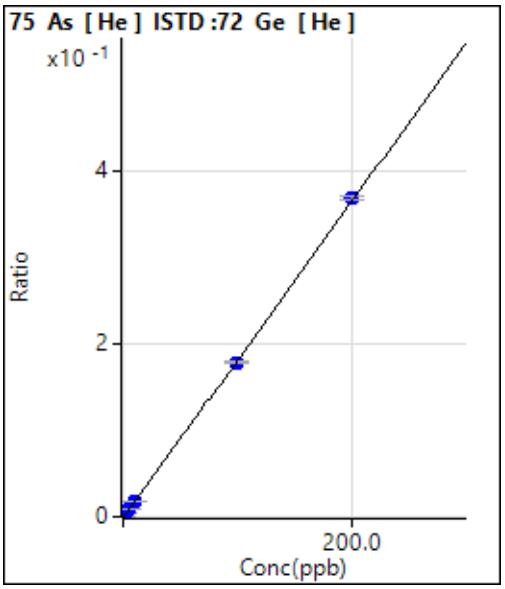
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	520.02	0.0008	P	15.5	
2	☐	2.000	2.063	3690.58	0.0059	P	4.2	3.1
3	☐	5.000	5.057	8019.17	0.0133	P	3.8	1.1
4	☐	10.000	10.209	16103.11	0.0260	P	2.8	2.1
5	☐	100.000	98.324	149826.85	0.2433	P	1.0	-1.7
6	☐	200.000	200.826	302641.23	0.4960	P	1.6	0.4

y = 0.0025 * x + 8.3700E-004
R = 0.9999
DL = 0.1582 ppb
BEC = 0.3395 ppb

Weight: <None>
Min Conc: <None>

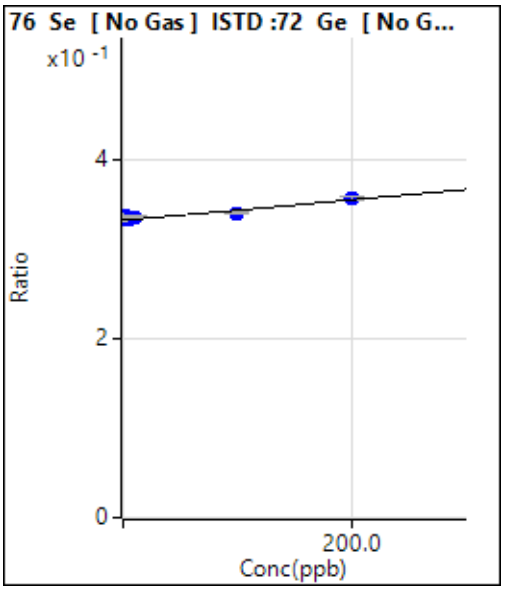


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	133.34	0.0002	P	26.7	
2	☐	2.000	1.888	2287.98	0.0037	P	1.2	-5.6
3	☐	5.000	4.859	5491.14	0.0091	P	1.3	-2.8
4	☐	10.000	9.987	11453.79	0.0185	P	1.3	-0.1
5	☐	100.000	97.435	109996.35	0.1786	P	0.8	-2.6
6	☐	200.000	201.288	224989.97	0.3687	P	0.8	0.6

y = 0.0018 * x + 2.1486E-004
R = 0.9999
DL = 0.09406 ppb
BEC = 0.1174 ppb

Weight: <None>
Min Conc: <None>

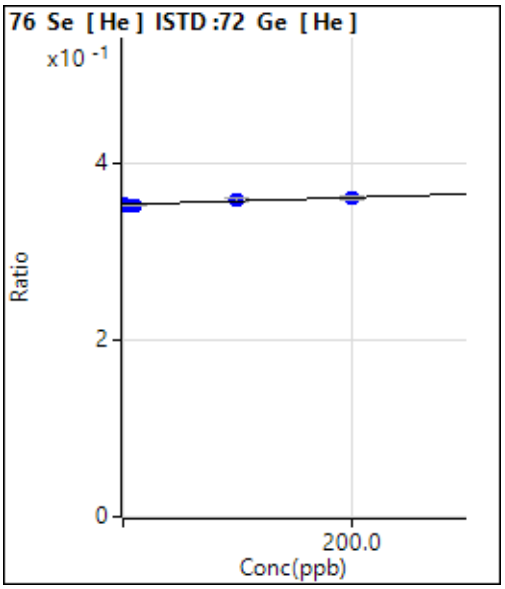
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	827000.95	0.3327	P	0.8	
2	☐	2.000	46.595	830711.26	0.3381	P	1.3	2229.8
3	☐	5.000	5.520	805516.50	0.3333	P	1.0	10.4
4	☐	10.000	31.421	830103.14	0.3363	P	0.7	214.2
5	☐	100.000	69.940	844486.94	0.3408	P	0.6	-30.1
6	☐	200.000	213.500	853757.98	0.3574	P	1.5	6.7

y = 1.1572E-004 * x + 0.3327
R = 0.9523
DL = 72.61 ppb
BEC = 2875 ppb

Weight: <None>
Min Conc: <None>

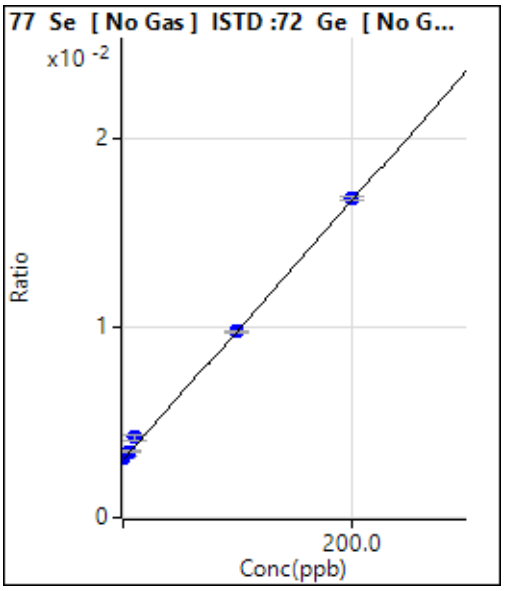


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	219548.47	0.3534	P	0.3	
2	☐	2.000	-41.485	219219.83	0.3518	P	1.2	-2174.
3	☐	5.000	-15.942	212656.55	0.3528	P	0.9	-418.8
4	☐	10.000	-13.080	218525.76	0.3529	P	0.2	-230.8
5	☐	100.000	132.376	220980.77	0.3588	P	0.7	32.4
6	☐	200.000	185.924	220244.04	0.3609	P	0.9	-7.0

y = 4.0291E-005 * x + 0.3534
R = 0.9664
DL = 90.74 ppb
BEC = 8772 ppb

Weight: <None>
Min Conc: <None>

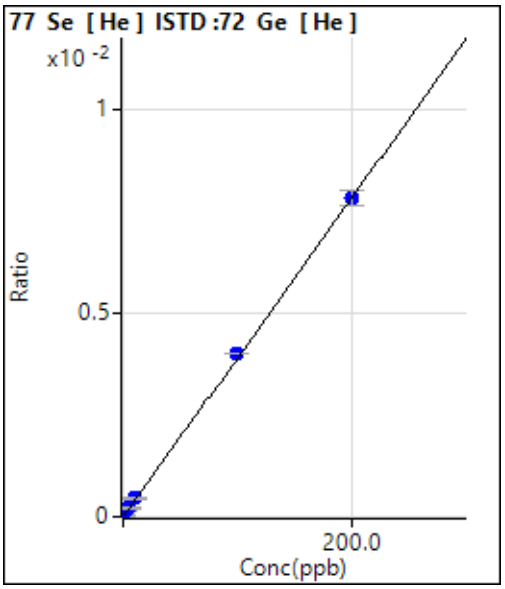
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7805.73	0.0031	P	2.8	
2	☐	2.000	3.067	8225.97	0.0033	P	4.6	53.3
3	☐	5.000	5.019	8412.78	0.0035	P	1.2	0.4
4	☐	10.000	15.828	10407.54	0.0042	P	5.5	58.3
5	☐	100.000	97.721	24268.85	0.0098	P	1.0	-2.3
6	☐	200.000	200.837	40173.44	0.0168	P	0.6	0.4

y = 6.8093E-005 * x + 0.0031
R = 0.9995
DL = 3.821 ppb
BEC = 46.1 ppb

Weight: <None>
Min Conc: <None>

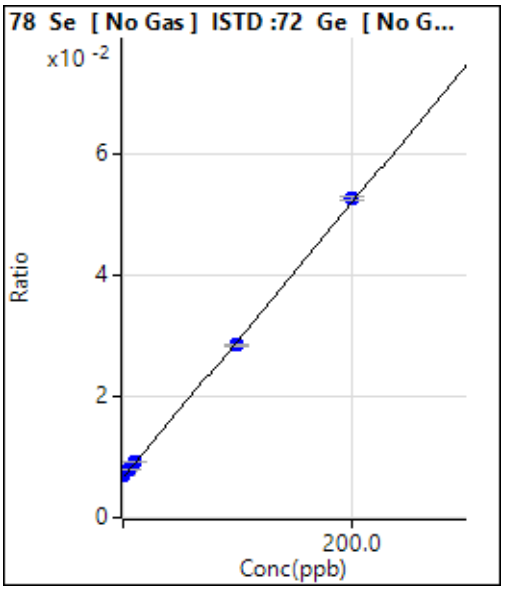


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20.00	0.0000	P	86.6	
2	☐	2.000	3.143	96.67	0.0002	P	15.9	57.1
3	☐	5.000	4.967	136.67	0.0002	P	21.9	-0.7
4	☐	10.000	10.868	283.34	0.0005	P	14.3	8.7
5	☐	100.000	101.605	2470.28	0.0040	P	1.0	1.6
6	☐	200.000	199.143	4777.60	0.0078	P	4.7	-0.4

y = 3.9155E-005 * x + 3.2091E-005
R = 0.9999
DL = 2.129 ppb
BEC = 0.8196 ppb

Weight: <None>
Min Conc: <None>

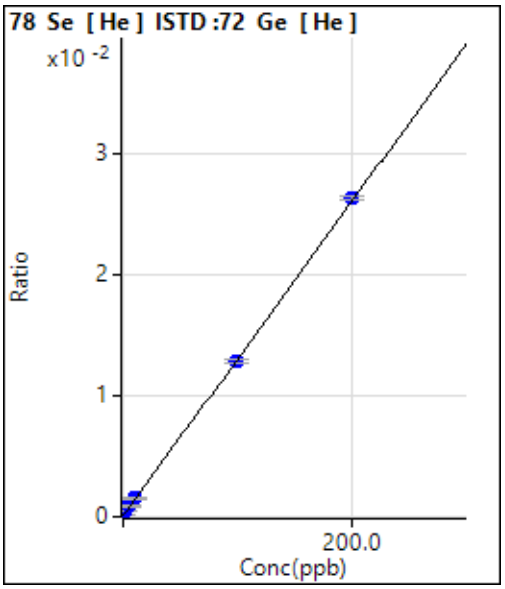
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	17157.82	0.0069	P	0.1	
2	☐	2.000	2.886	18569.69	0.0076	P	0.9	44.3
3	☐	5.000	4.971	19404.27	0.0080	P	2.1	-0.6
4	☐	10.000	10.053	22666.13	0.0092	P	2.1	0.5
5	☐	100.000	95.199	70638.30	0.0285	P	1.7	-4.8
6	☐	200.000	202.390	126207.22	0.0528	P	1.5	1.2

y = 2.2693E-004 * x + 0.0069
R = 0.9996
DL = 0.1052 ppb
BEC = 30.41 ppb

Weight: <None>
Min Conc: <None>

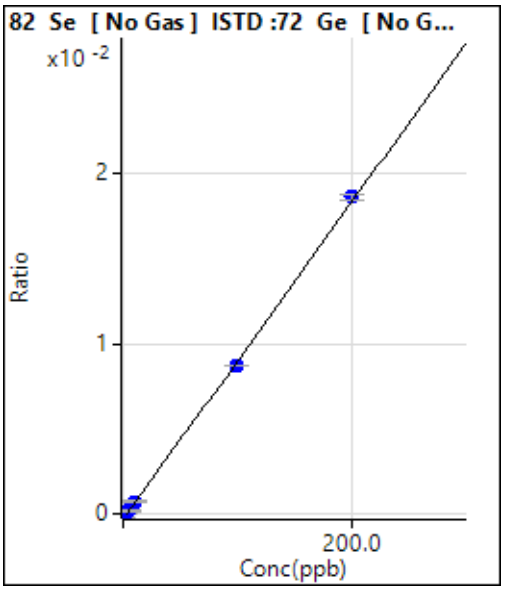


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	128.00	0.0002	P	4.8	
2	☐	2.000	2.021	292.00	0.0005	P	8.8	1.0
3	☐	5.000	5.207	532.01	0.0009	P	6.9	4.1
4	☐	10.000	10.194	948.04	0.0015	P	8.7	1.9
5	☐	100.000	97.279	7914.34	0.0129	P	3.3	-2.7
6	☐	200.000	201.345	16095.61	0.0264	P	1.6	0.7

y = 1.2998E-004 * x + 2.0602E-004
R = 0.9999
DL = 0.2305 ppb
BEC = 1.585 ppb

Weight: <None>
Min Conc: <None>

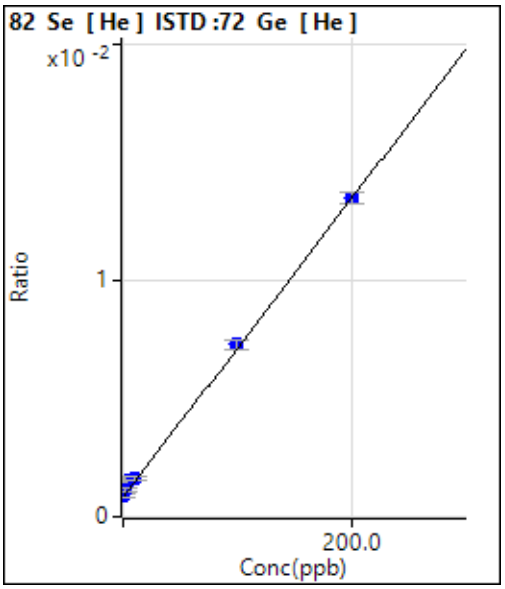
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-528.89	-0.0002	P	-18.3	
2	☐	2.000	2.507	50.96	0.0000	P	493.4	25.4
3	☐	5.000	4.690	540.12	0.0002	P	52.9	-6.2
4	☐	10.000	10.304	1843.58	0.0007	P	15.4	3.0
5	☐	100.000	95.810	21596.64	0.0087	P	1.2	-4.2
6	☐	200.000	202.082	44475.86	0.0186	P	1.6	1.0

y = 9.3185E-005 * x - 2.1295E-004
R = 0.9997
DL = 1.257 ppb
BEC = -2.285 ppb

Weight: <None>
Min Conc: <None>

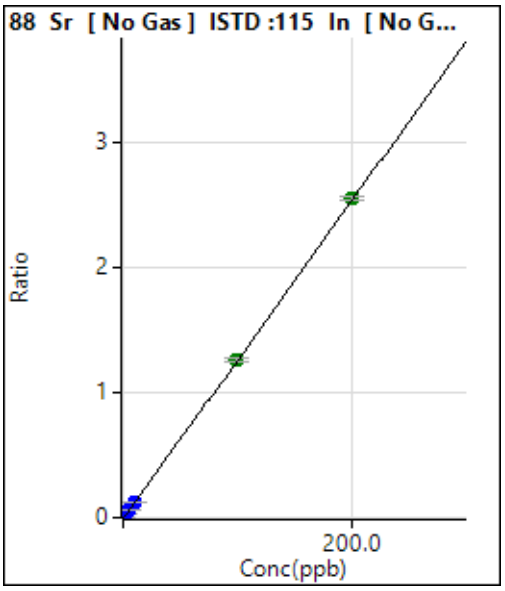


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	560.02	0.0009	P	16.5	
2	☐	2.000	3.754	710.03	0.0011	P	8.9	87.7
3	☐	5.000	10.566	946.72	0.0016	P	8.5	111.3
4	☐	10.000	11.531	1010.06	0.0016	P	11.3	15.3
5	☐	100.000	101.134	4494.17	0.0073	P	5.9	1.1
6	☐	200.000	199.200	8236.01	0.0135	P	4.2	-0.4

y = 6.3236E-005 * x + 9.0216E-004
R = 0.9997
DL = 7.074 ppb
BEC = 14.27 ppb

Weight: <None>
Min Conc: <None>

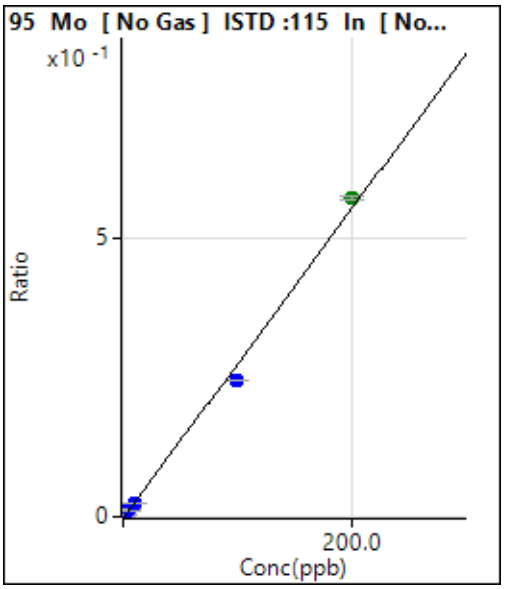
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4354.13	0.0015	P	3.9	
2	☐	2.000	1.882	73427.96	0.0254	P	0.7	-5.9
3	☐	5.000	4.665	172845.19	0.0607	P	1.1	-6.7
4	☐	10.000	9.611	357217.52	0.1236	P	1.0	-3.9
5	☐	100.000	98.849	3554677.65	1.2571	A	2.2	-1.2
6	☐	200.000	200.604	7126515.31	2.5496	A	1.4	0.3

y = 0.0127 * x + 0.0015
R = 1.0000
DL = 0.01384 ppb
BEC = 0.1174 ppb

Weight: <None>
Min Conc: <None>

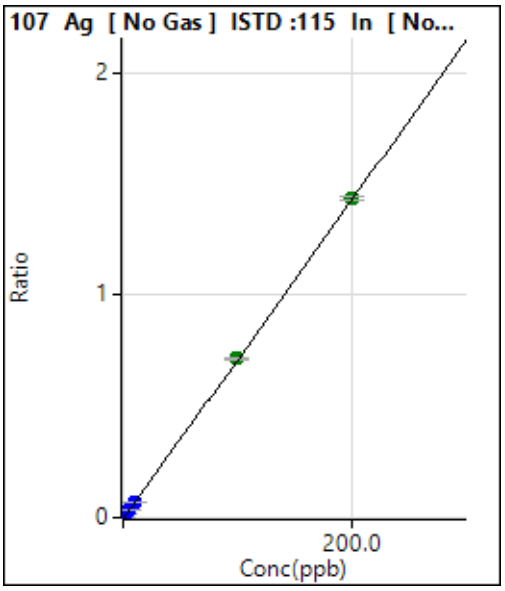


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	86.67	0.0000	P	41.3	
2	☐	2.000	1.695	13707.24	0.0047	P	0.7	-15.3
3	☐	5.000	4.338	34394.73	0.0121	P	1.8	-13.2
4	☐	10.000	8.927	71823.42	0.0248	P	1.6	-10.7
5	☐	100.000	88.076	692467.90	0.2448	P	0.7	-11.9
6	☐	200.000	206.035	1600804.61	0.5727	A	1.7	3.0

y = 0.0028 * x + 2.9768E-005
R = 0.9976
DL = 0.01328 ppb
BEC = 0.01071 ppb

Weight: <None>
Min Conc: <None>

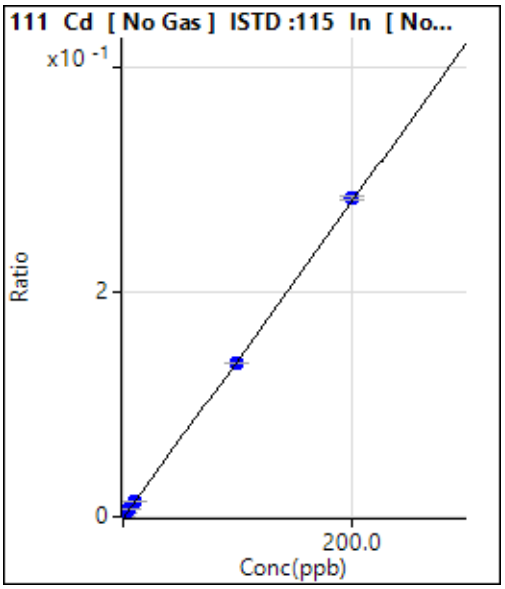
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	416.68	0.0001	P	1.2	
2	☐	2.000	1.900	39800.10	0.0138	P	0.3	-5.0
3	☐	5.000	4.674	95727.99	0.0336	P	2.4	-6.5
4	☐	10.000	9.513	197562.67	0.0683	P	1.2	-4.9
5	☐	100.000	99.693	2021531.33	0.7148	A	1.9	-0.3
6	☐	200.000	200.187	4012051.29	1.4353	A	1.2	0.1

y = 0.0072 * x + 1.4260E-004
R = 1.0000
DL = 0.0007265 ppb
BEC = 0.01989 ppb

Weight: <None>
Min Conc: <None>

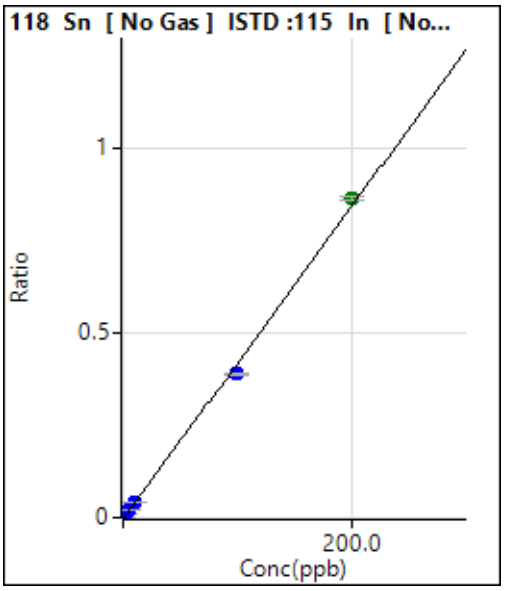


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	43.33	0.0000	P	54.8	
2	☐	2.000	2.030	8316.10	0.0029	P	1.7	1.5
3	☐	5.000	4.825	19384.52	0.0068	P	3.0	-3.5
4	☐	10.000	9.992	40743.09	0.0141	P	1.3	-0.1
5	☐	100.000	97.035	386720.48	0.1367	P	1.0	-3.0
6	☐	200.000	201.487	793644.65	0.2839	P	0.7	0.7

y = 0.0014 * x + 1.4904E-005
R = 0.9998
DL = 0.0174 ppb
BEC = 0.01058 ppb

Weight: <None>
Min Conc: <None>

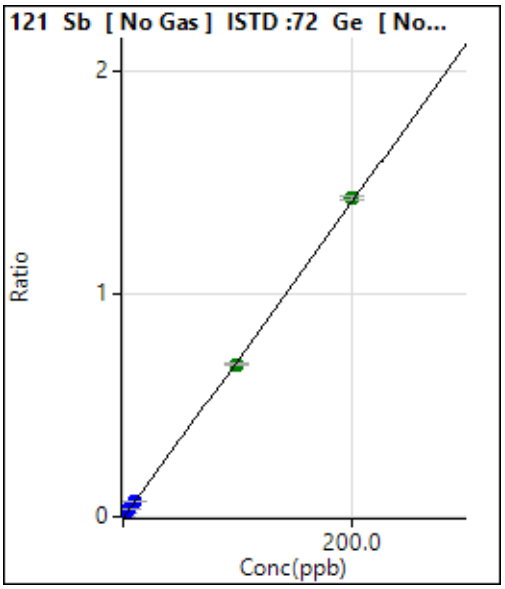
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	983.39	0.0003	P	9.8	
2	☐	2.000	1.828	23387.83	0.0081	P	0.5	-8.6
3	☐	5.000	4.585	56257.20	0.0198	P	1.8	-8.3
4	☐	10.000	9.334	115376.86	0.0399	P	0.8	-6.7
5	☐	100.000	91.790	1101466.86	0.3895	P	1.4	-8.2
6	☐	200.000	204.150	2420460.02	0.8659	A	0.9	2.1

y = 0.0042 * x + 3.3650E-004
R = 0.9988
DL = 0.0234 ppb
BEC = 0.07937 ppb

Weight: <None>
Min Conc: <None>

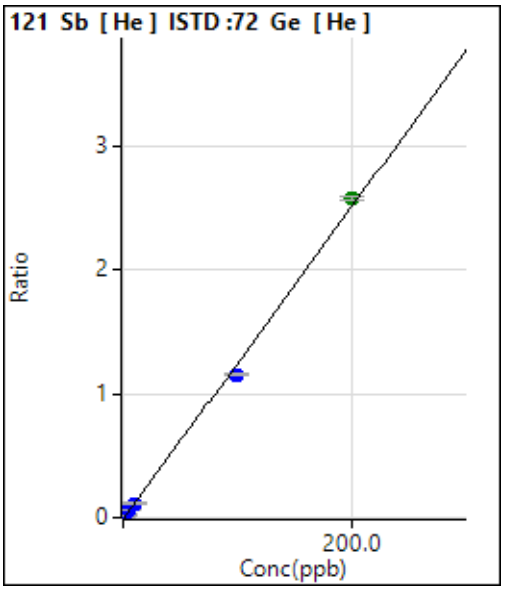


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	583.36	0.0002	P	10.2	
2	☐	2.000	1.850	32767.97	0.0133	P	1.8	-7.5
3	☐	5.000	4.572	78832.98	0.0326	P	1.2	-8.6
4	☐	10.000	9.228	161920.44	0.0656	P	1.0	-7.7
5	☐	100.000	96.548	1695471.64	0.6841	A	0.7	-3.5
6	☐	200.000	201.777	3415485.36	1.4295	A	0.8	0.9

y = 0.0071 * x + 2.3452E-004
R = 0.9998
DL = 0.01009 ppb
BEC = 0.03311 ppb

Weight: <None>
Min Conc: <None>

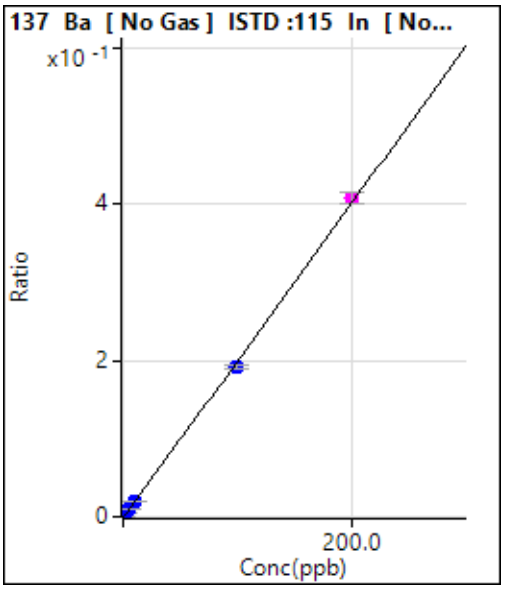
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	233.34	0.0004	P	13.7	
2	☐	2.000	1.801	14391.44	0.0231	P	4.9	-9.9
3	☐	5.000	4.600	35204.18	0.0584	P	1.2	-8.0
4	☐	10.000	9.162	71792.65	0.1159	P	1.6	-8.4
5	☐	100.000	91.291	709511.50	1.1519	P	1.0	-8.7
6	☐	200.000	204.408	1573613.05	2.5788	A	1.8	2.2

y = 0.0126 * x + 3.7586E-004
R = 0.9987
DL = 0.01225 ppb
BEC = 0.0298 ppb

Weight: <None>
Min Conc: <None>

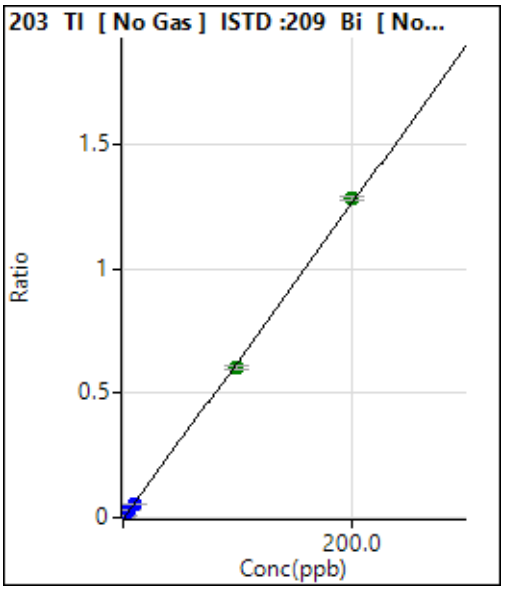


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1166.74	0.0004	P	3.1	
2	☐	2.000	1.963	12602.99	0.0044	P	0.3	-1.8
3	☐	5.000	4.743	28341.26	0.0100	P	2.9	-5.1
4	☐	10.000	9.659	57453.52	0.0199	P	0.7	-3.4
5	☐	100.000	95.346	544711.26	0.1926	P	2.2	-4.7
6	☐	200.000	202.351	1141810.38	0.4084	M	3.1	1.2

y = 0.0020 * x + 3.9936E-004
R = 0.9996
DL = 0.01857 ppb
BEC = 0.1981 ppb

Weight: <None>
Min Conc: <None>

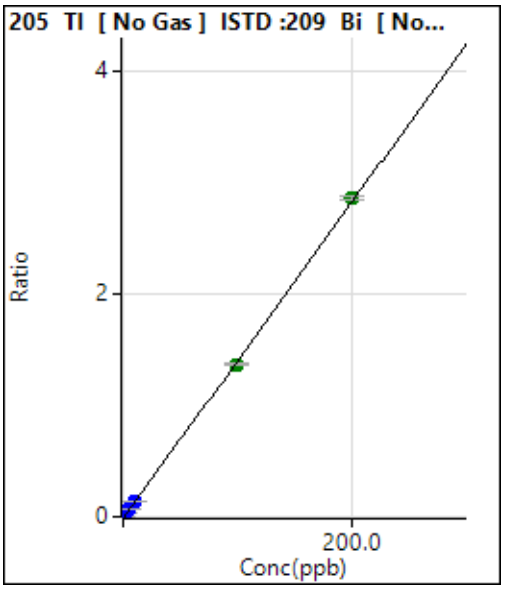
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	203.34	0.0001	P	6.6	
2	☐	2.000	1.724	28068.52	0.0110	P	2.2	-13.8
3	☐	5.000	4.392	68846.23	0.0279	P	1.2	-12.2
4	☐	10.000	8.763	142273.32	0.0556	P	1.0	-12.4
5	☐	100.000	95.222	1507373.78	0.6035	A	1.6	-4.8
6	☐	200.000	202.469	3110244.95	1.2832	A	1.1	1.2

y = 0.0063 * x + 8.0043E-005
R = 0.9996
DL = 0.002487 ppb
BEC = 0.01263 ppb

Weight: <None>
Min Conc: <None>

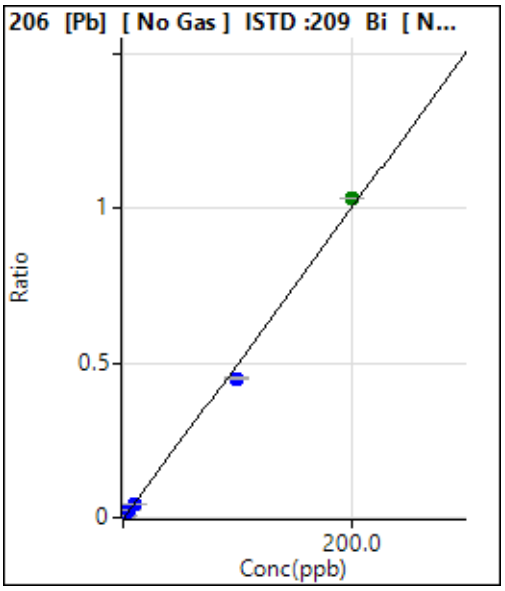


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	450.02	0.0002	P	6.8	
2	☐	2.000	1.835	66865.53	0.0262	P	1.6	-8.3
3	☐	5.000	4.635	162720.48	0.0660	P	0.5	-7.3
4	☐	10.000	9.313	338634.06	0.1324	P	0.8	-6.9
5	☐	100.000	96.357	3416703.39	1.3680	A	0.7	-3.6
6	☐	200.000	201.866	6945935.73	2.8657	A	0.8	0.9

y = 0.0142 * x + 1.7697E-004
R = 0.9998
DL = 0.002527 ppb
BEC = 0.01247 ppb

Weight: <None>
Min Conc: <None>

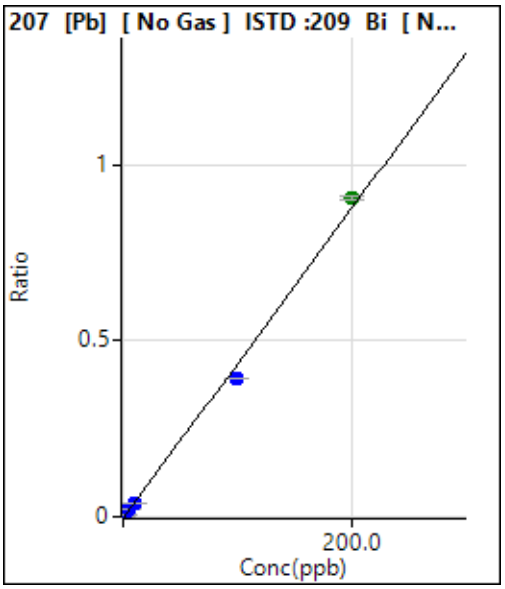
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	793.37	0.0003	P	7.5	
2	☐	2.000	1.780	23639.43	0.0093	P	1.1	-11.0
3	☐	5.000	4.509	56718.89	0.0230	P	1.1	-9.8
4	☐	10.000	9.039	117140.00	0.0458	P	0.6	-9.6
5	☐	100.000	89.589	1126506.13	0.4510	P	0.6	-10.4
6	☐	200.000	205.268	2504000.17	1.0330	A	0.4	2.6

y = 0.0050 * x + 3.1237E-004
R = 0.9982
DL = 0.01405 ppb
BEC = 0.06209 ppb

Weight: <None>
Min Conc: <None>

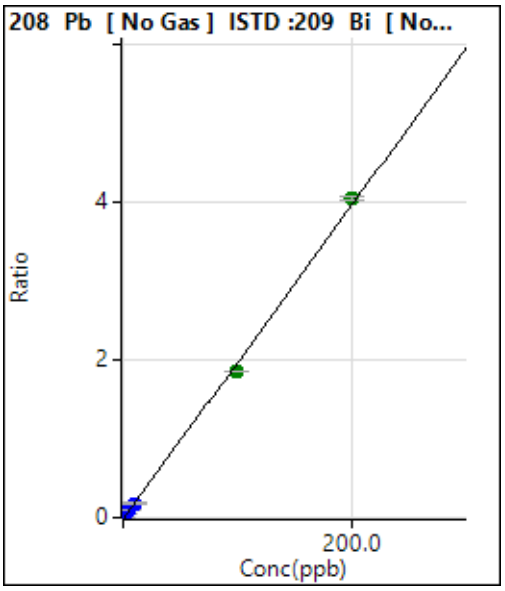


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	560.03	0.0002	P	8.8	
2	☐	2.000	1.768	20413.69	0.0080	P	2.7	-11.6
3	☐	5.000	4.416	48521.46	0.0197	P	2.8	-11.7
4	☐	10.000	9.009	102072.54	0.0399	P	1.1	-9.9
5	☐	100.000	88.810	977484.51	0.3914	P	0.6	-11.2
6	☐	200.000	205.662	2196049.97	0.9060	A	1.1	2.8

y = 0.0044 * x + 2.2022E-004
R = 0.9979
DL = 0.01325 ppb
BEC = 0.05 ppb

Weight: <None>
Min Conc: <None>

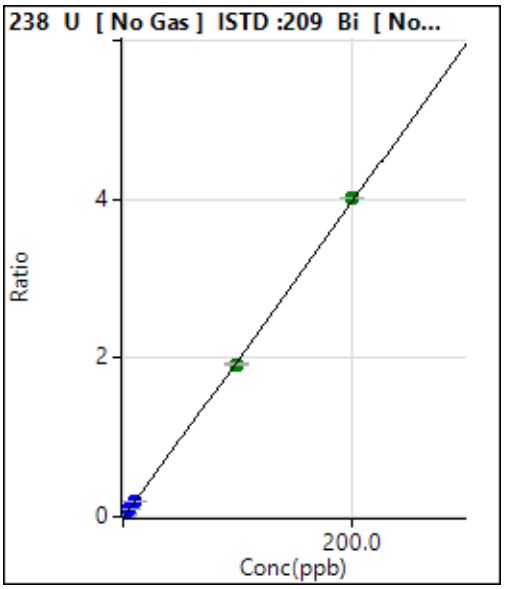
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2800.18	0.0011	P	3.6	
2	☐	2.000	1.807	94505.45	0.0371	P	1.1	-9.7
3	☐	5.000	4.525	224796.60	0.0911	P	0.7	-9.5
4	☐	10.000	9.121	467084.86	0.1826	P	0.5	-8.8
5	☐	100.000	93.151	4631975.71	1.8546	A	0.6	-6.8
6	☐	200.000	203.482	9816383.81	4.0499	A	0.7	1.7

y = 0.0199 * x + 0.0011
R = 0.9992
DL = 0.005977 ppb
BEC = 0.05538 ppb

Weight: <None>
Min Conc: <None>

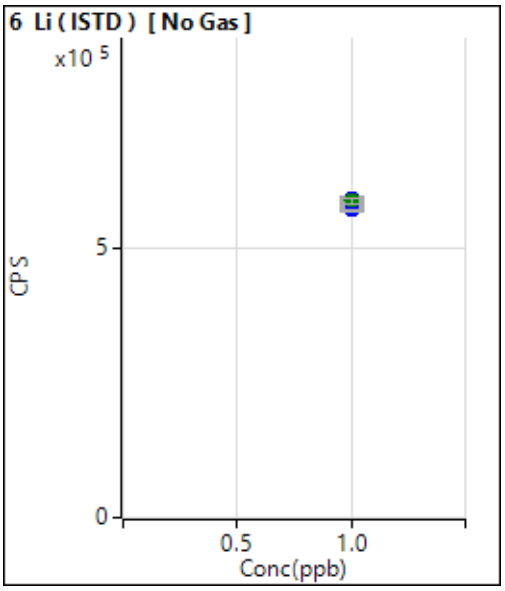


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	480.02	0.0002	P	9.8	
2	☐	2.000	1.811	92534.45	0.0363	P	1.2	-9.4
3	☐	5.000	4.600	226576.96	0.0919	P	0.5	-8.0
4	☐	10.000	9.147	466816.93	0.1825	P	0.6	-8.5
5	☐	100.000	96.548	4806500.87	1.9244	A	0.5	-3.5
6	☐	200.000	201.781	9748105.90	4.0217	A	0.5	0.9

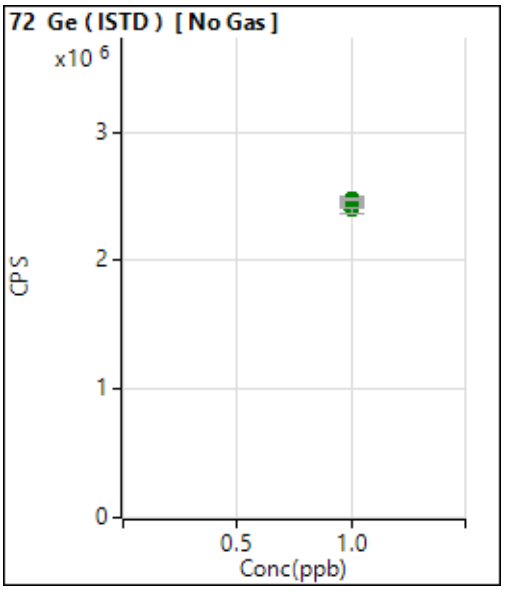
y = 0.0199 * x + 1.8872E-004
R = 0.9998
DL = 0.002781 ppb
BEC = 0.009469 ppb

Weight: <None>
Min Conc: <None>

Calibration for 287_ICV.d

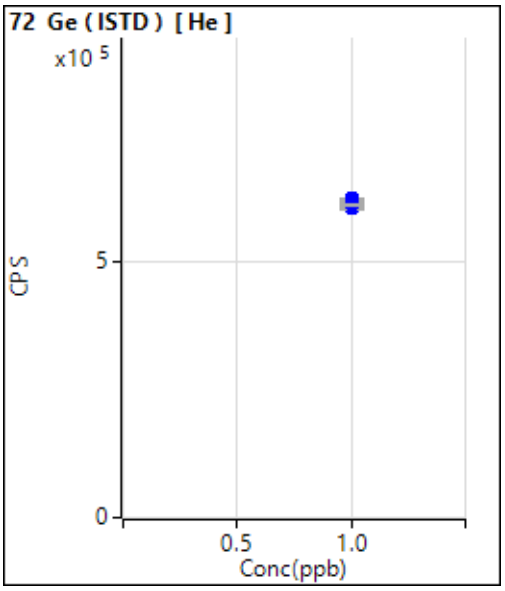


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		592897.16		P	1.2	
2	☐	1.000		590154.32		P	0.9	
3	☐	1.000		572012.55		P	1.2	
4	☐	1.000		581638.40		P	1.4	
5	☐	1.000		569987.32		P	0.8	
6	☐	1.000		587885.55		A	2.3	

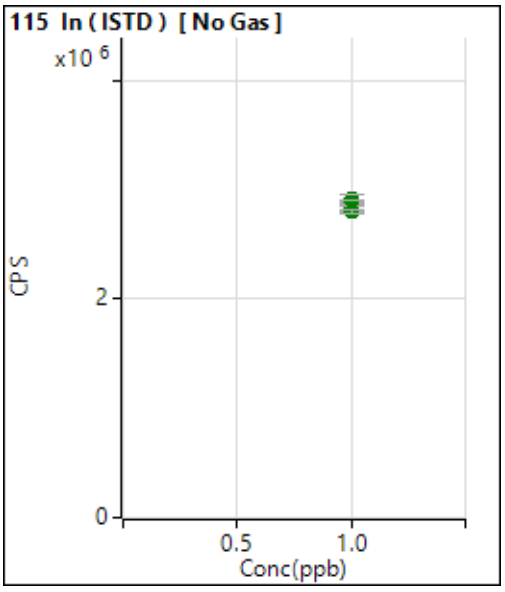


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2485987.78		A	1.0	
2	☐	1.000		2457326.32		A	0.7	
3	☐	1.000		2416766.58		A	0.8	
4	☐	1.000		2468233.71		A	0.5	
5	☐	1.000		2478199.55		A	0.8	
6	☐	1.000		2389223.30		A	1.5	

Calibration for 287_ICV.d

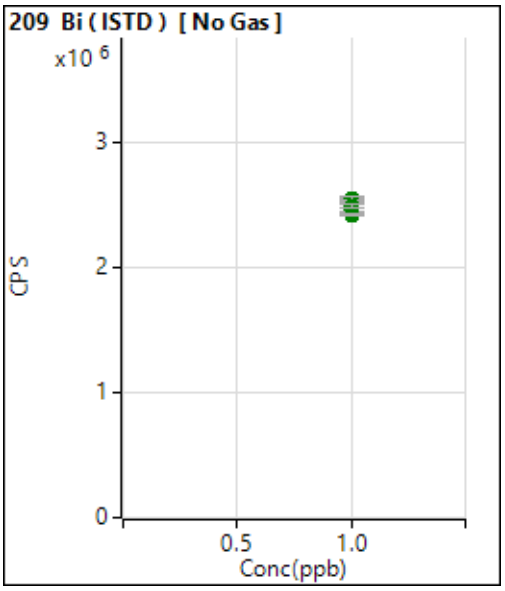


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		621186.74		P	0.7	
2	☐	1.000		623221.85		P	0.6	
3	☐	1.000		602793.38		P	0.6	
4	☐	1.000		619207.89		P	0.1	
5	☐	1.000		615946.84		P	0.7	
6	☐	1.000		610235.45		P	0.7	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2922371.40		A	1.8	
2	☐	1.000		2891930.23		A	1.5	
3	☐	1.000		2845754.13		A	1.9	
4	☐	1.000		2890988.54		A	1.2	
5	☐	1.000		2828446.19		A	1.9	
6	☐	1.000		2795472.58		A	1.1	

Calibration for 287_ICV.d



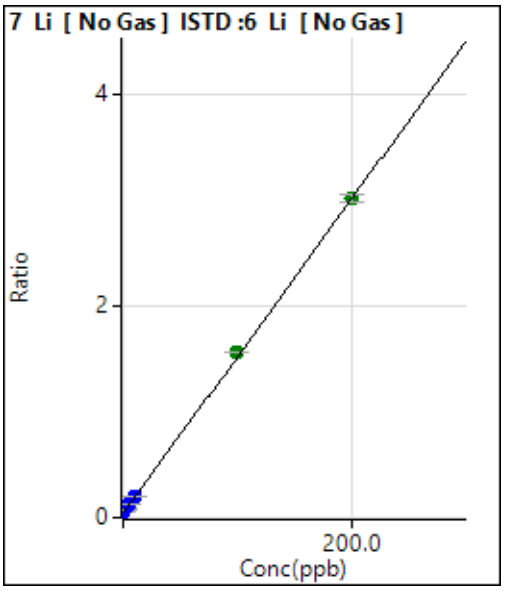
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2541423.61		A	1.3	
2	☐	1.000		2550490.95		A	1.1	
3	☐	1.000		2466566.63		A	1.1	
4	☐	1.000		2558070.07		A	0.8	
5	☐	1.000		2497633.04		A	0.8	
6	☐	1.000		2423929.65		A	0.9	

Calibration for 166_ICV.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\083022A.b\
Analysis File: 083022A.batch.bin
DA Date-Time: 08/30/2022 22:08:01
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	159CALB.d	CAL BLK	08/30/2022 19:54:04
2	160CALS.d	2/10/200	08/30/2022 19:56:01
3	161CALS.d	5/25/500	08/30/2022 19:57:59
4	162CALS.d	10/50/100	08/30/2022 19:59:56
5	163CALS.d	100/500/10K	08/30/2022 20:01:54
6	164CALS.d	200/1000/20K	08/30/2022 20:03:46

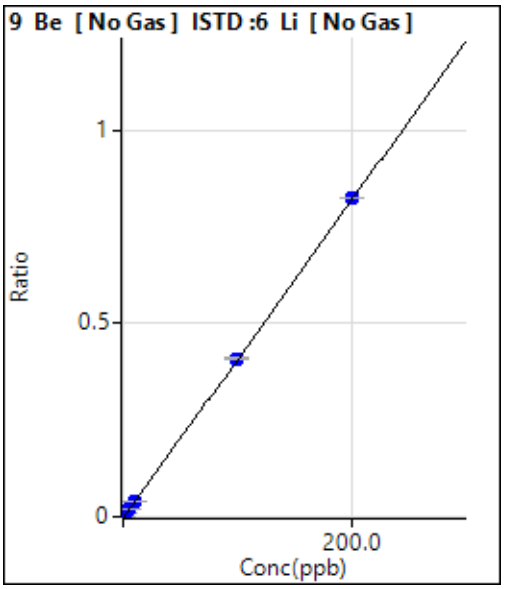
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	44734.13	0.0533	P	3.8	
2	☐	2.000	1.936	68167.57	0.0822	P	1.9	-3.2
3	☐	5.000	4.613	101585.50	0.1221	P	2.6	-7.7
4	☐	10.000	9.505	160402.60	0.1950	P	0.7	-4.9
5	☐	100.000	101.336	1246278.31	1.5638	A	0.4	1.3
6	☐	200.000	199.367	2351360.95	3.0251	A	2.0	-0.3

y = 0.0149 * x + 0.0533
R = 1.0000
DL = 0.4034 ppb
BEC = 3.579 ppb

Weight: <None>
Min Conc: <None>

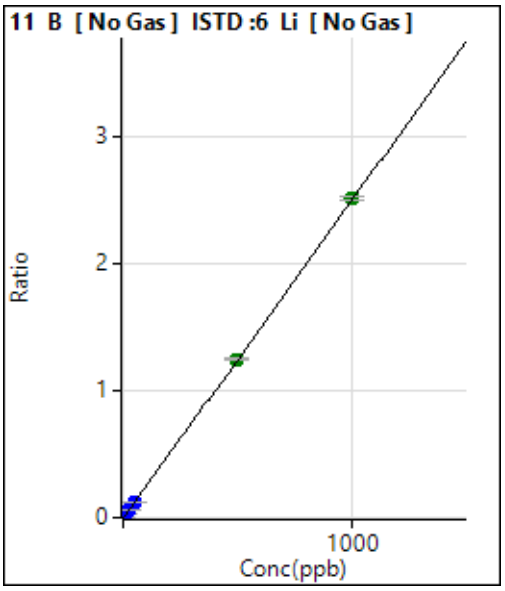


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3.33	0.0000	P	86.6	
2	☐	2.000	1.877	6414.85	0.0077	P	2.9	-6.2
3	☐	5.000	4.714	16156.01	0.0194	P	4.4	-5.7
4	☐	10.000	9.619	32597.74	0.0396	P	1.0	-3.8
5	☐	100.000	99.199	325679.31	0.4087	P	1.2	-0.8
6	☐	200.000	200.428	641686.51	0.8258	P	0.6	0.2

y = 0.0041 * x + 3.9144E-006
R = 1.0000
DL = 0.002468 ppb
BEC = 0.0009501 ppb

Weight: <None>
Min Conc: <None>

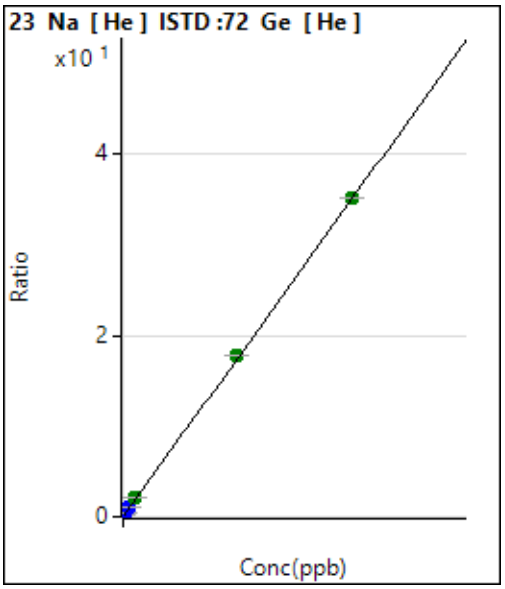
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5409.43	0.0065	P	5.9	
2	☐	10.000	8.809	23678.40	0.0285	P	0.9	-11.9
3	☐	25.000	22.034	51351.89	0.0617	P	3.1	-11.9
4	☐	50.000	45.486	99157.60	0.1206	P	1.0	-9.0
5	☐	500.000	496.044	996823.97	1.2509	A	1.9	-0.8
6	☐	1000.000	1002.290	1958750.03	2.5210	A	1.3	0.2

y = 0.0025 * x + 0.0065
R = 1.0000
DL = 0.4545 ppb
BEC = 2.571 ppb

Weight: <None>
Min Conc: <None>

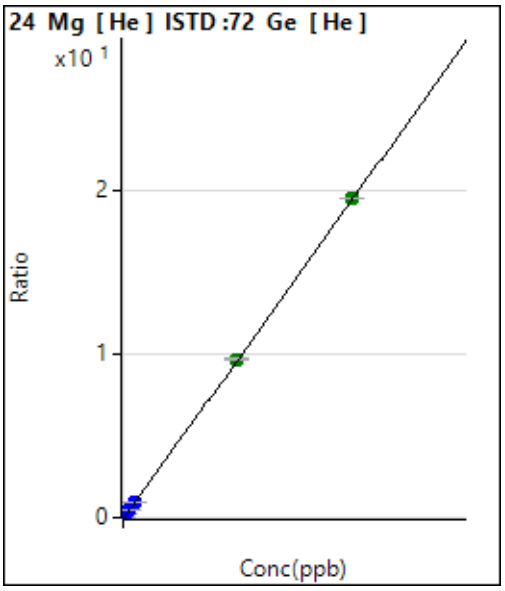


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	108452.89	0.1842	P	2.6	
2	☐	200.000	186.453	304339.66	0.5108	P	0.7	-6.8
3	☐	500.000	468.267	596283.25	1.0045	P	1.0	-6.3
4	☐	1000.000	1052.542	1181585.32	2.0280	A	1.1	5.3
5	☐	10000.00	10035.18	10532995.88	17.7636	A	0.7	0.4
6	☐	20000.00	19980.71	20242920.11	35.1860	A	0.5	-0.1

y = 0.0018 * x + 0.1842
R = 1.0000
DL = 8.133 ppb
BEC = 105.1 ppb

Weight: <None>
Min Conc: <None>

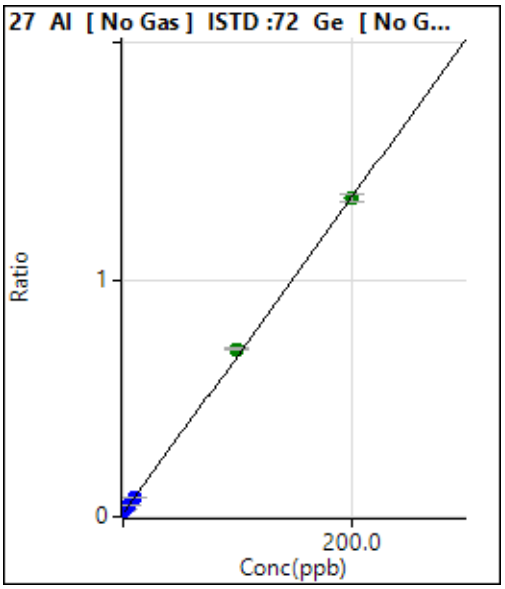
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	360.01	0.0006	P	18.6	
2	☐	200.000	187.564	109131.52	0.1832	P	1.4	-6.2
3	☐	500.000	471.056	272522.93	0.4591	P	0.8	-5.8
4	☐	1000.000	944.338	535842.66	0.9197	P	1.5	-5.6
5	☐	10000.00	9936.769	5734657.62	9.6715	A	0.6	-0.6
6	☐	20000.00	20035.24	11218091.91	19.4998	A	0.5	0.2

y = 9.7324E-004 * x + 6.1211E-004
R = 1.0000
DL = 0.3514 ppb
BEC = 0.6289 ppb

Weight: <None>
Min Conc: <None>

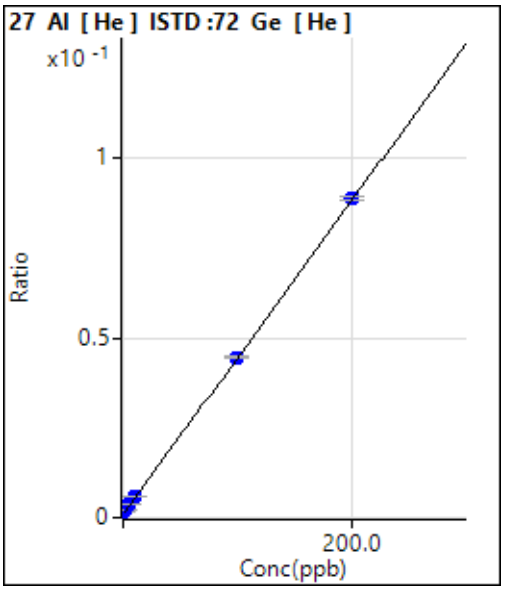


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	48923.29	0.0205	P	0.6	
2	☐	2.000	2.083	82350.16	0.0344	P	2.4	4.1
3	☐	5.000	4.619	122051.87	0.0513	P	1.8	-7.6
4	☐	10.000	9.058	194128.02	0.0809	P	0.9	-9.4
5	☐	100.000	102.871	1651563.41	0.7066	A	0.8	2.9
6	☐	200.000	198.620	3105294.64	1.3451	A	2.0	-0.7

y = 0.0067 * x + 0.0205
R = 0.9998
DL = 0.05845 ppb
BEC = 3.073 ppb

Weight: <None>
Min Conc: <None>

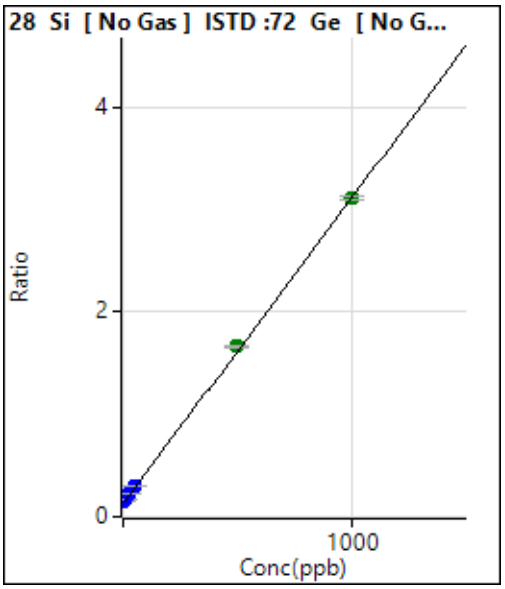
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	803.37	0.0014	P	0.9	
2	☐	2.000	2.027	1340.09	0.0022	P	2.4	1.3
3	☐	5.000	5.079	2126.87	0.0036	P	2.9	1.6
4	☐	10.000	10.227	3397.14	0.0058	P	3.8	2.3
5	☐	100.000	98.956	26442.12	0.0446	P	1.0	-1.0
6	☐	200.000	200.509	51174.25	0.0890	P	1.2	0.3

y = 4.3685E-004 * x + 0.0014
R = 1.0000
DL = 0.08698 ppb
BEC = 3.122 ppb

Weight: <None>
Min Conc: <None>

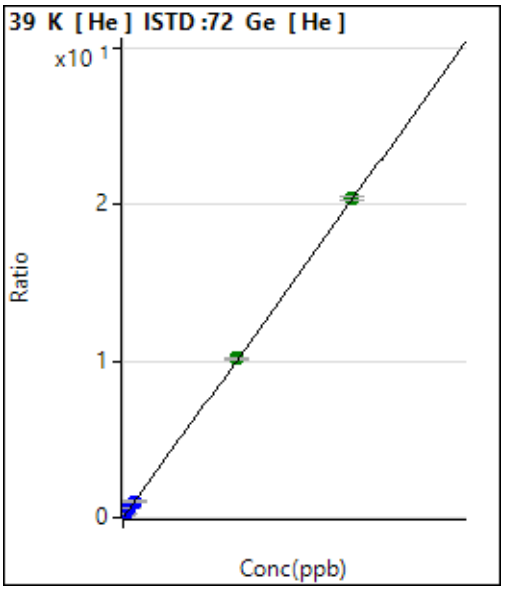


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	344820.27	0.1444	P	0.0	
2	☐	10.000	10.104	418218.77	0.1746	P	0.4	1.0
3	☐	25.000	25.250	522961.01	0.2198	P	2.5	1.0
4	☐	50.000	50.904	711230.07	0.2964	P	1.1	1.8
5	☐	500.000	509.609	3893227.44	1.6656	A	1.0	1.9
6	☐	1000.000	995.143	7190538.64	3.1148	A	1.6	-0.5

y = 0.0030 * x + 0.1444
R = 0.9999
DL = 0.0378 ppb
BEC = 48.39 ppb

Weight: <None>
Min Conc: <None>

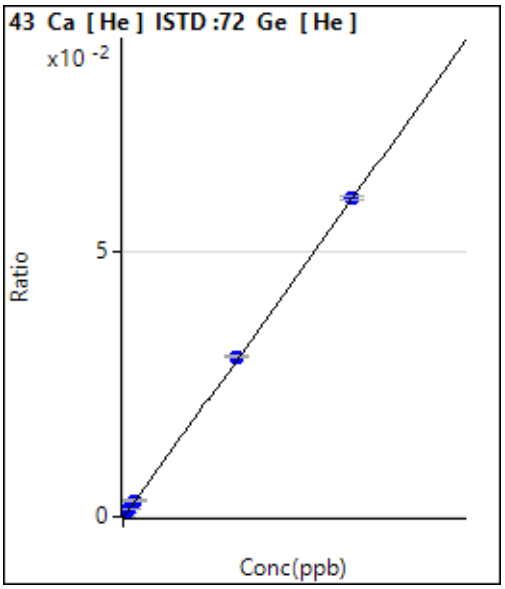
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	54102.79	0.0918	P	0.6	
2	☐	200.000	186.905	167782.79	0.2816	P	0.4	-6.5
3	☐	500.000	466.820	335851.98	0.5658	P	1.1	-6.6
4	☐	1000.000	937.982	608293.79	1.0441	P	0.5	-6.2
5	☐	10000.00	9958.945	6049110.95	10.2019	A	1.1	-0.4
6	☐	20000.00	20024.58	11747968.99	20.4203	A	0.7	0.1

y = 0.0010 * x + 0.0918
R = 1.0000
DL = 1.575 ppb
BEC = 90.48 ppb

Weight: <None>
Min Conc: <None>

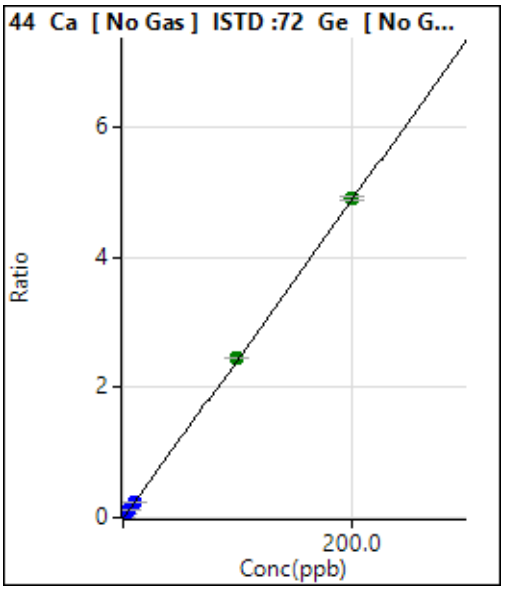


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	23.33	0.0000	P	137.0	
2	☐	200.000	240.360	453.35	0.0008	P	29.4	20.2
3	☐	500.000	456.387	836.71	0.0014	P	4.6	-8.7
4	☐	1000.000	1006.498	1783.48	0.0031	P	2.8	0.6
5	☐	10000.00	10007.79	17841.75	0.0301	P	1.2	0.1
6	☐	20000.00	19996.46	34567.05	0.0601	P	0.8	0.0

y = 3.0028E-006 * x + 3.9189E-005
R = 1.0000
DL = 53.63 ppb
BEC = 13.05 ppb

Weight: <None>
Min Conc: <None>

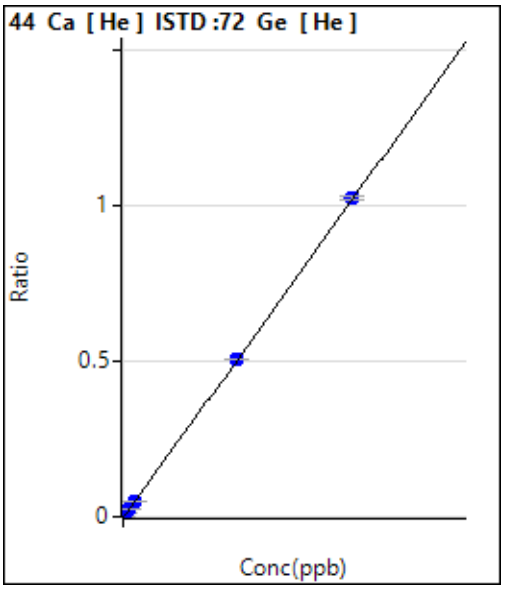
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	24228.26	0.0101	P	0.3	
2	☐	2.000	1.836	131947.75	0.0551	P	1.7	-8.2
3	☐	5.000	4.690	297349.81	0.1250	P	2.9	-6.2
4	☐	10.000	9.305	571033.29	0.2380	P	1.1	-7.0
5	☐	100.000	99.564	5721715.96	2.4479	A	0.5	-0.4
6	☐	200.000	200.262	11342811.91	4.9134	A	1.2	0.1

y = 0.0245 * x + 0.0101
R = 1.0000
DL = 0.004158 ppb
BEC = 0.4145 ppb

Weight: <None>
Min Conc: <None>

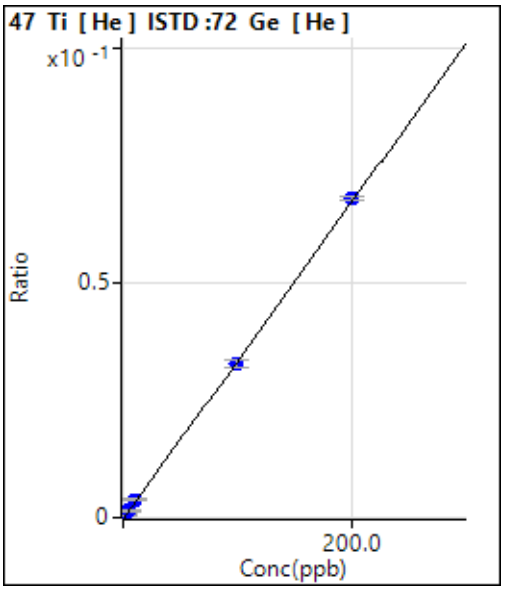


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	466.68	0.0008	P	7.7	
2	☐	200.000	198.706	6511.64	0.0109	P	5.2	-0.6
3	☐	500.000	496.115	15495.64	0.0261	P	5.2	-0.8
4	☐	1000.000	978.629	29545.24	0.0507	P	1.4	-2.1
5	☐	10000.00	9895.854	299774.84	0.5056	P	0.6	-1.0
6	☐	20000.00	20053.25	588899.90	1.0237	P	1.0	0.3

y = 5.1008E-005 * x + 7.9188E-004
R = 1.0000
DL = 3.575 ppb
BEC = 15.52 ppb

Weight: <None>
Min Conc: <None>

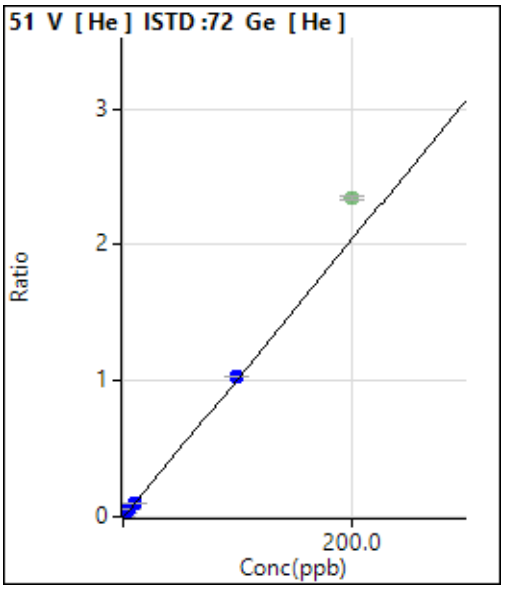
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	0.00	0.0000	P		
2	☐	2.000	1.834	370.01	0.0006	P	28.1	-8.3
3	☐	5.000	4.444	893.38	0.0015	P	14.8	-11.1
4	☐	10.000	11.051	2180.22	0.0037	P	9.3	10.5
5	☐	100.000	97.105	19487.49	0.0329	P	4.3	-2.9
6	☐	200.000	201.410	39219.69	0.0682	P	1.5	0.7

y = 3.3847E-004 * x + 0.0000E+000
R = 0.9998
DL = 0 ppb
BEC = 0 ppb

Weight: <None>
Min Conc: <None>

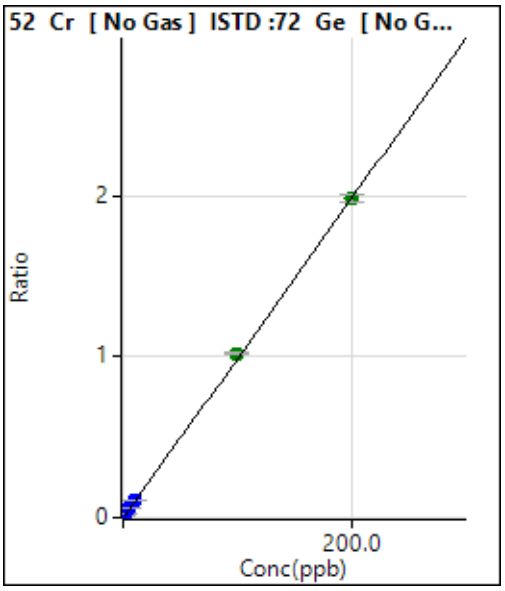


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2444.68	0.0041	P	2.1	
2	☐	2.000	1.962	14432.09	0.0242	P	1.1	-1.9
3	☐	5.000	4.979	32704.50	0.0551	P	2.2	-0.4
4	☐	10.000	9.917	61531.74	0.1056	P	0.7	-0.8
5	☐	100.000	100.010	609185.20	1.0274	P	0.1	0.0
6	☑	200.000		1349762.06	2.3463	A	1.1	

y = 0.0102 * x + 0.0041
R = 1.0000
DL = 0.02563 ppb
BEC = 0.4056 ppb

Weight: <None>
Min Conc: <None>

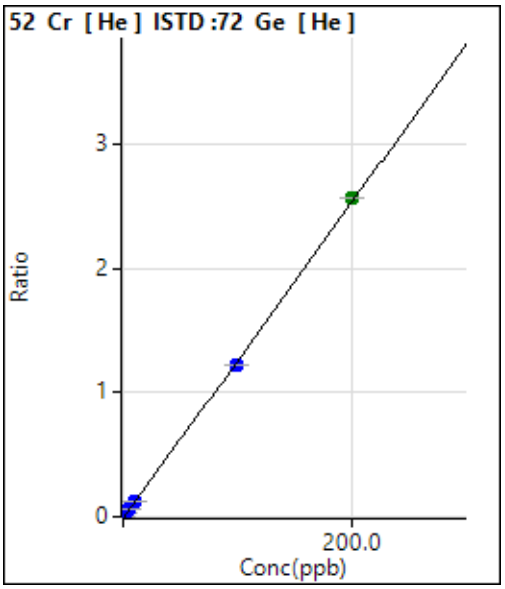
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16063.01	0.0067	P	3.0	
2	☐	2.000	1.878	60875.61	0.0254	P	1.6	-6.1
3	☐	5.000	4.848	130783.86	0.0550	P	2.0	-3.0
4	☐	10.000	9.653	246629.83	0.1028	P	1.3	-3.5
5	☐	100.000	102.044	2389178.30	1.0221	A	1.2	2.0
6	☐	200.000	199.000	4586259.83	1.9868	A	2.2	-0.5

y = 0.0100 * x + 0.0067
R = 0.9999
DL = 0.06061 ppb
BEC = 0.6763 ppb

Weight: <None>
Min Conc: <None>

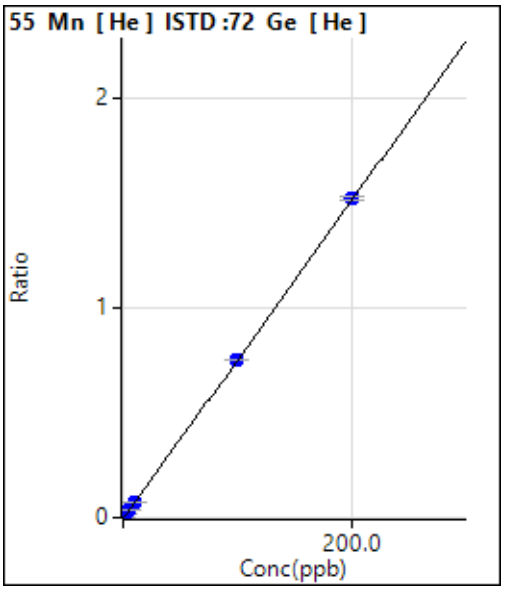


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	553.36	0.0009	P	18.9	
2	☐	2.000	1.881	14798.25	0.0248	P	3.2	-5.9
3	☐	5.000	4.861	37217.66	0.0627	P	1.7	-2.8
4	☐	10.000	9.637	71874.76	0.1234	P	0.9	-3.6
5	☐	100.000	96.153	724829.42	1.2224	P	0.8	-3.8
6	☐	200.000	201.946	1476443.88	2.5664	A	0.6	1.0

y = 0.0127 * x + 9.4085E-004
R = 0.9997
DL = 0.04196 ppb
BEC = 0.07406 ppb

Weight: <None>
Min Conc: <None>

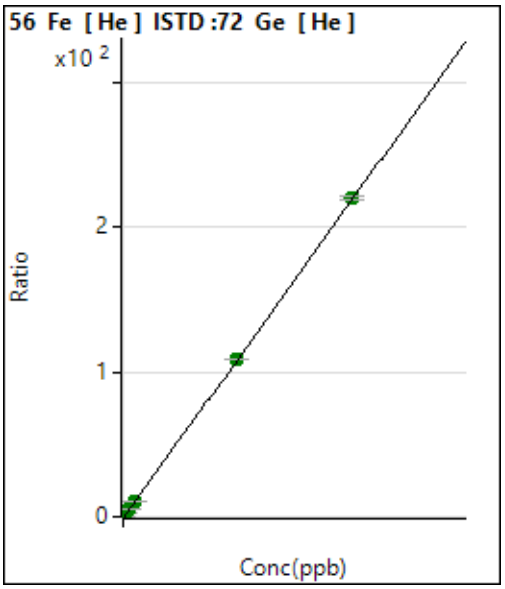
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	486.69	0.0008	P	3.8	
2	☐	2.000	2.012	9593.52	0.0161	P	4.6	0.6
3	☐	5.000	5.045	23223.36	0.0391	P	0.6	0.9
4	☐	10.000	9.991	44670.12	0.0767	P	1.5	-0.1
5	☐	100.000	99.199	446985.03	0.7538	P	0.6	-0.8
6	☐	200.000	200.400	875604.70	1.5220	P	0.6	0.2

y = 0.0076 * x + 8.2602E-004
R = 1.0000
DL = 0.01241 ppb
BEC = 0.1088 ppb

Weight: <None>
Min Conc: <None>

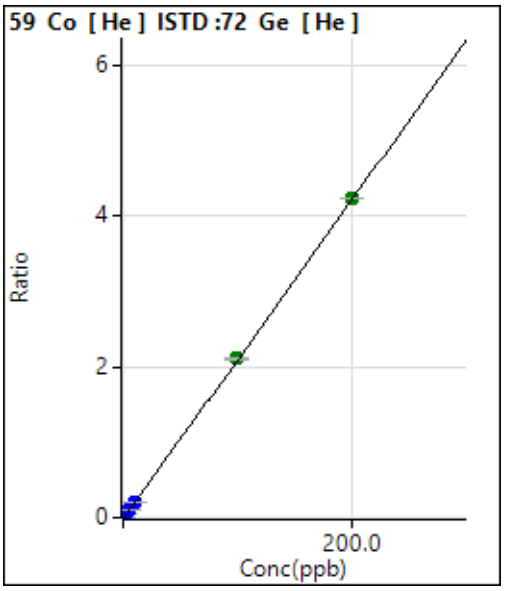


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10944.57	0.0186	P	4.5	
2	☐	200.000	208.562	1376864.62	2.3108	A	1.0	4.3
3	☐	500.000	517.243	3385763.70	5.7034	A	1.0	3.4
4	☐	1000.000	1010.221	6479882.61	11.1216	A	0.8	1.0
5	☐	10000.00	9914.782	64625389.04	108.988	A	0.2	-0.9
6	☐	20000.00	20041.58	126732951.4	220.288	A	0.6	0.2

y = 0.0110 * x + 0.0186
R = 1.0000
DL = 0.2263 ppb
BEC = 1.691 ppb

Weight: <None>
Min Conc: <None>

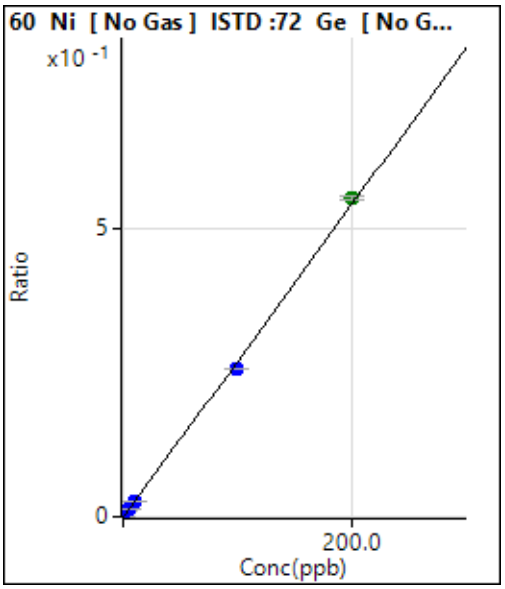
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	30.00	0.0001	P	88.5	
2	☐	2.000	1.856	23447.11	0.0393	P	2.4	-7.2
3	☐	5.000	4.738	59580.16	0.1004	P	0.9	-5.2
4	☐	10.000	9.419	116215.14	0.1995	P	0.4	-5.8
5	☐	100.000	99.750	1252211.02	2.1118	A	0.6	-0.3
6	☐	200.000	200.162	2437931.00	4.2376	A	0.2	0.1

y = 0.0212 * x + 5.0915E-005
R = 1.0000
DL = 0.006386 ppb
BEC = 0.002405 ppb

Weight: <None>
Min Conc: <None>

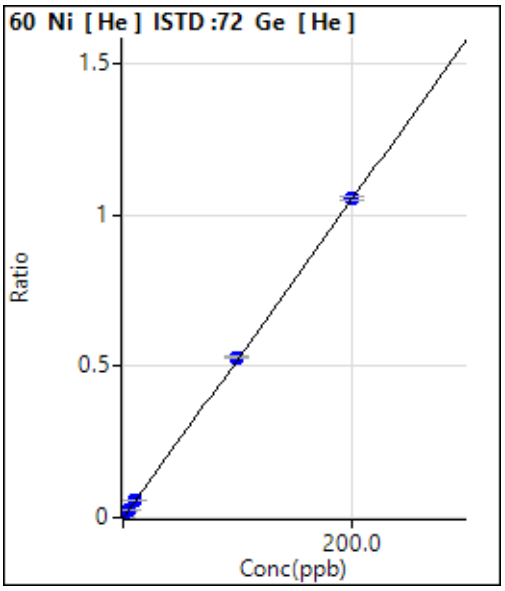


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3600.54	0.0015	P	3.6	
2	☐	2.000	2.758	21547.33	0.0090	P	4.5	37.9
3	☐	5.000	4.220	30851.93	0.0130	P	3.0	-15.6
4	☐	10.000	8.797	60950.05	0.0254	P	2.4	-12.0
5	☐	100.000	93.677	598046.52	0.2559	P	0.4	-6.3
6	☐	200.000	203.234	1277280.06	0.5534	A	1.5	1.6

y = 0.0027 * x + 0.0015
R = 0.9993
DL = 0.05952 ppb
BEC = 0.5554 ppb

Weight: <None>
Min Conc: <None>

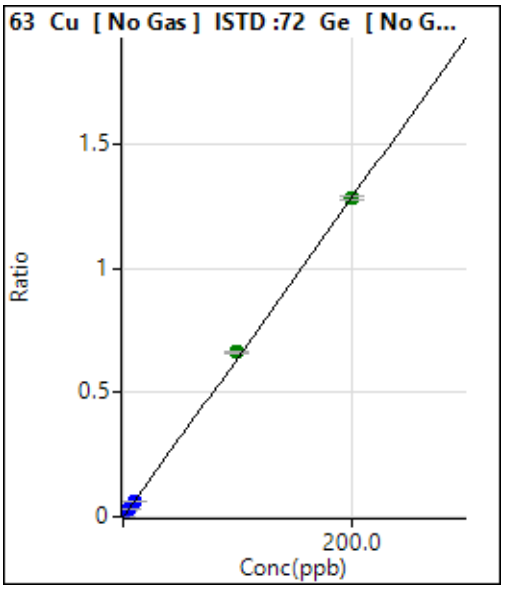
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1743.48	0.0030	P	4.0	
2	☐	2.000	3.013	11221.43	0.0188	P	2.1	50.7
3	☐	5.000	4.665	16343.38	0.0275	P	2.1	-6.7
4	☐	10.000	9.835	31907.71	0.0548	P	1.5	-1.6
5	☐	100.000	100.159	314556.55	0.5305	P	0.7	0.2
6	☐	200.000	199.927	607506.88	1.0560	P	0.7	0.0

y = 0.0053 * x + 0.0030
R = 1.0000
DL = 0.06674 ppb
BEC = 0.5621 ppb

Weight: <None>
Min Conc: <None>

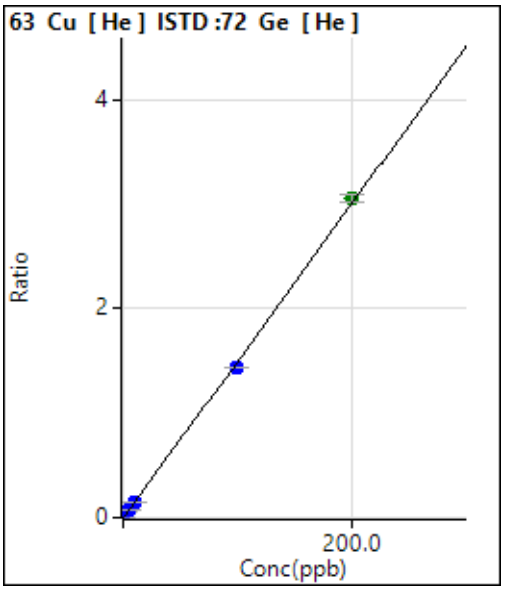


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8769.66	0.0037	P	4.1	
2	☑	2.000		60220.14	0.0251	P	0.6	
3	☐	5.000	4.336	75187.54	0.0316	P	1.2	-13.3
4	☐	10.000	9.171	150549.70	0.0627	P	1.4	-8.3
5	☐	100.000	102.246	1547692.42	0.6622	A	0.3	2.2
6	☐	200.000	198.935	2966152.87	1.2848	A	1.4	-0.5

y = 0.0064 * x + 0.0037
R = 0.9999
DL = 0.07045 ppb
BEC = 0.5704 ppb

Weight: <None>
Min Conc: <None>

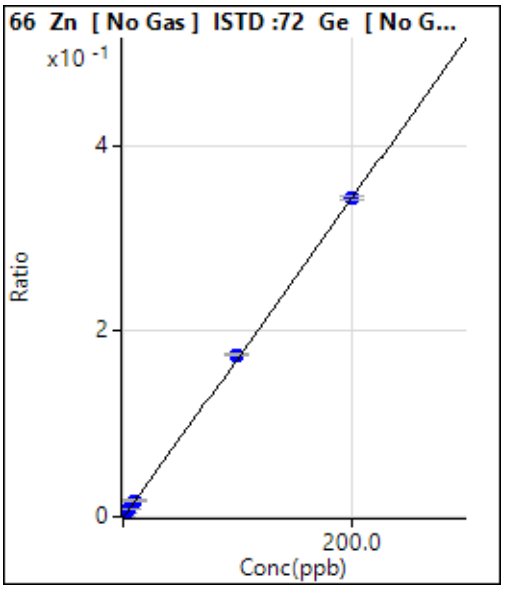
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5214.42	0.0089	P	2.6	
2	☑	2.000		35466.50	0.0595	P	0.5	
3	☐	5.000	4.332	43917.80	0.0740	P	2.0	-13.4
4	☐	10.000	9.201	85762.87	0.1472	P	1.0	-8.0
5	☐	100.000	95.049	852618.79	1.4379	P	0.8	-5.0
6	☐	200.000	202.532	1756948.72	3.0540	A	1.8	1.3

y = 0.0150 * x + 0.0089
R = 0.9996
DL = 0.04662 ppb
BEC = 0.5887 ppb

Weight: <None>
Min Conc: <None>

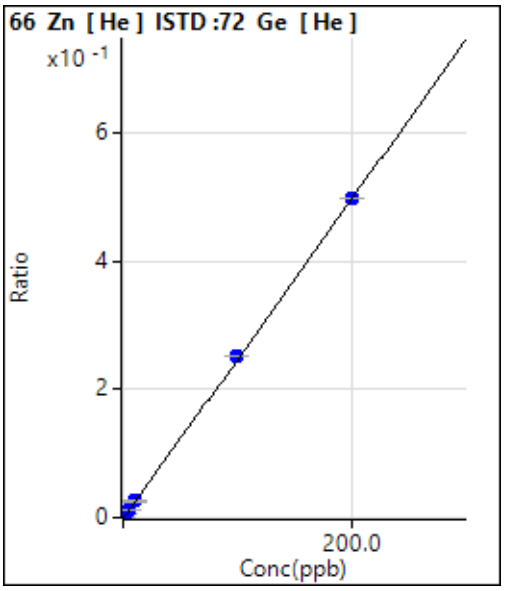


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	950.05	0.0004	P	15.7	
2	☐	2.000	2.008	9229.97	0.0039	P	3.5	0.4
3	☐	5.000	4.987	21367.09	0.0090	P	1.6	-0.3
4	☐	10.000	9.962	42092.17	0.0175	P	2.7	-0.4
5	☐	100.000	101.308	408398.39	0.1747	P	0.5	1.3
6	☐	200.000	199.348	792756.05	0.3434	P	0.9	-0.3

y = 0.0017 * x + 3.9805E-004
R = 1.0000
DL = 0.1092 ppb
BEC = 0.2313 ppb

Weight: <None>
Min Conc: <None>

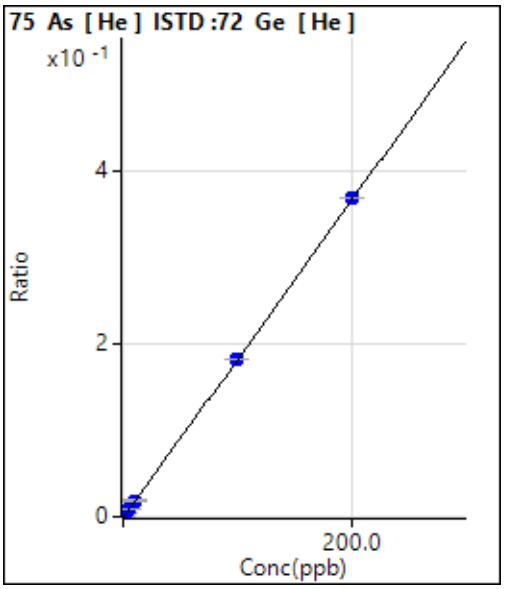
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	333.34	0.0006	P	7.3	
2	☐	2.000	2.207	3613.89	0.0061	P	9.1	10.3
3	☐	5.000	5.011	7749.03	0.0131	P	3.1	0.2
4	☐	10.000	10.177	15108.66	0.0259	P	5.6	1.8
5	☐	100.000	100.785	149277.52	0.2518	P	0.5	0.8
6	☐	200.000	199.596	286523.72	0.4980	P	0.6	-0.2

y = 0.0025 * x + 5.6621E-004
R = 1.0000
DL = 0.05005 ppb
BEC = 0.2272 ppb

Weight: <None>
Min Conc: <None>

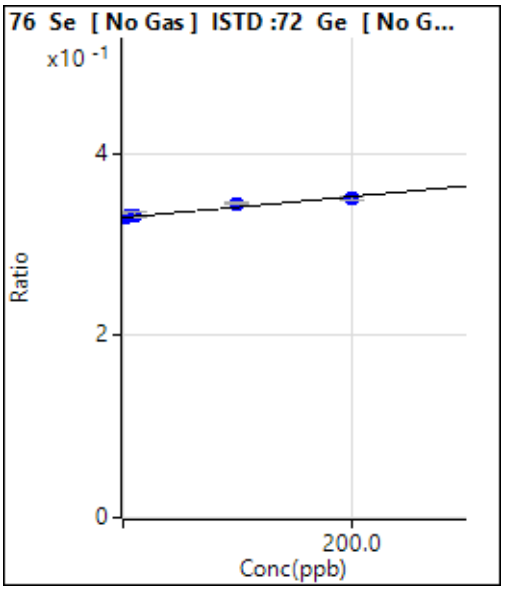


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	127.78	0.0002	P	15.6	
2	☐	2.000	1.889	2202.41	0.0037	P	4.2	-5.5
3	☐	5.000	4.863	5445.57	0.0092	P	1.8	-2.7
4	☐	10.000	10.097	10960.07	0.0188	P	2.4	1.0
5	☐	100.000	99.021	108260.14	0.1826	P	0.6	-1.0
6	☐	200.000	200.489	212541.27	0.3695	P	0.6	0.2

y = 0.0018 * x + 2.1722E-004
R = 1.0000
DL = 0.05508 ppb
BEC = 0.1179 ppb

Weight: <None>
Min Conc: <None>

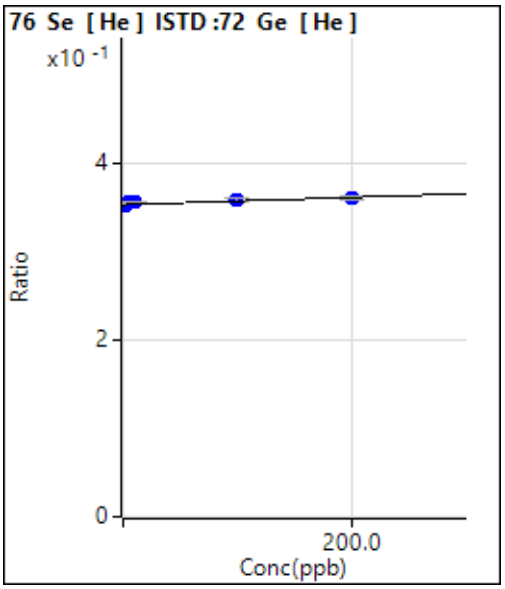
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	786631.68	0.3295	P	0.4	
2	☐	2.000	-1.533	788855.51	0.3293	P	0.4	-176.6
3	☐	5.000	17.130	788802.12	0.3315	P	1.1	242.6
4	☐	10.000	22.093	796793.92	0.3321	P	2.0	120.9
5	☐	100.000	133.778	806499.10	0.3450	P	0.6	33.8
6	☐	200.000	182.238	809446.50	0.3507	P	1.2	-8.9

y = 1.1608E-004 * x + 0.3295
R = 0.9768
DL = 37.15 ppb
BEC = 2839 ppb

Weight: <None>
Min Conc: <None>

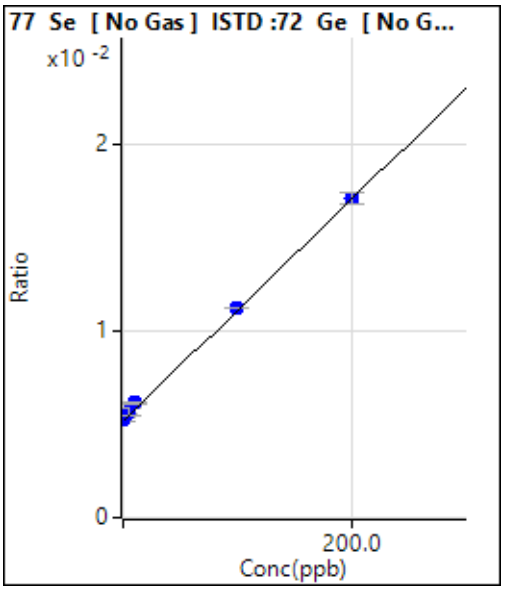


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	208438.16	0.3538	P	0.1	
2	☐	2.000	-20.979	210310.70	0.3530	P	0.5	-1148.
3	☐	5.000	66.332	211719.48	0.3566	P	0.6	1226.6
4	☐	10.000	54.611	207510.89	0.3561	P	0.7	446.1
5	☐	100.000	127.284	212990.97	0.3592	P	1.0	27.3
6	☐	200.000	182.824	207994.86	0.3616	P	1.0	-8.6

y = 4.2160E-005 * x + 0.3538
R = 0.9083
DL = 23.55 ppb
BEC = 8393 ppb

Weight: <None>
Min Conc: <None>

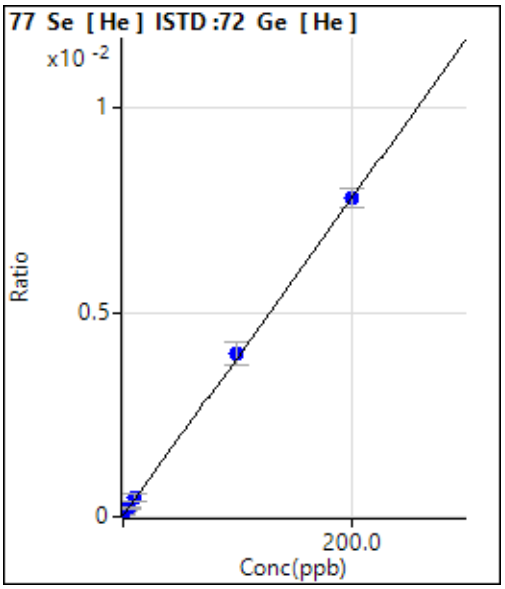
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12579.40	0.0053	P	4.9	
2	☐	2.000	3.561	13126.55	0.0055	P	1.5	78.1
3	☐	5.000	6.939	13517.06	0.0057	P	6.2	38.8
4	☐	10.000	14.555	14711.61	0.0061	P	1.9	45.6
5	☐	100.000	100.508	26229.22	0.0112	P	0.8	0.5
6	☐	200.000	199.454	39434.82	0.0171	P	4.1	-0.3

y = 5.9237E-005 * x + 0.0053
R = 0.9998
DL = 13.04 ppb
BEC = 88.94 ppb

Weight: <None>
Min Conc: <None>

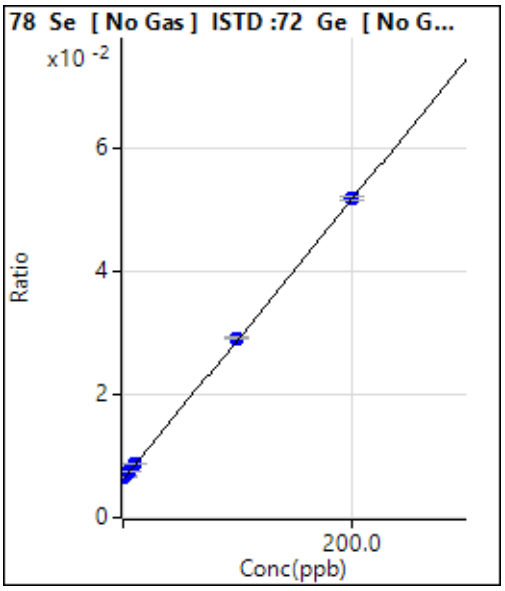


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	36.67	0.0001	P	31.7	
2	☐	2.000	2.717	100.00	0.0002	P	36.3	35.9
3	☐	5.000	4.024	130.00	0.0002	P	33.0	-19.5
4	☐	10.000	10.594	276.67	0.0005	P	31.7	5.9
5	☐	100.000	101.593	2380.26	0.0040	P	13.8	1.6
6	☐	200.000	199.191	4490.84	0.0078	P	6.6	-0.4

y = 3.8886E-005 * x + 6.2278E-005
R = 0.9999
DL = 1.524 ppb
BEC = 1.602 ppb

Weight: <None>
Min Conc: <None>

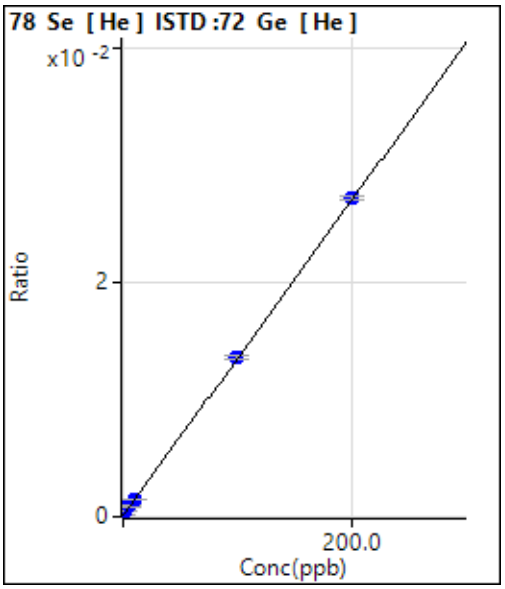
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	15459.12	0.0065	P	1.4	
2	☐	2.000	1.701	16436.98	0.0069	P	4.2	-14.9
3	☐	5.000	4.754	17982.25	0.0076	P	2.7	-4.9
4	☐	10.000	10.272	21150.21	0.0088	P	2.3	2.7
5	☐	100.000	100.090	68403.47	0.0293	P	0.6	0.1
6	☐	200.000	199.951	120044.74	0.0520	P	1.7	0.0

y = 2.2768E-004 * x + 0.0065
R = 1.0000
DL = 1.205 ppb
BEC = 28.44 ppb

Weight: <None>
Min Conc: <None>

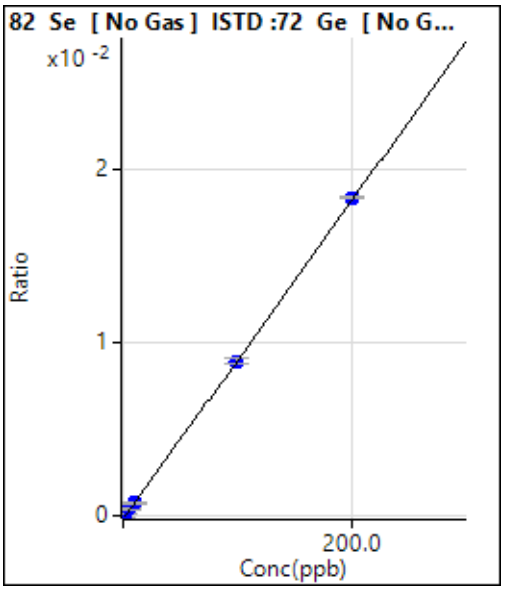


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	132.67	0.0002	P	10.5	
2	☐	2.000	1.806	279.33	0.0005	P	8.0	-9.7
3	☐	5.000	5.037	536.68	0.0009	P	6.4	0.7
4	☐	10.000	9.377	867.36	0.0015	P	6.2	-6.2
5	☐	100.000	99.009	8045.09	0.0136	P	2.7	-1.0
6	☐	200.000	200.528	15675.11	0.0272	P	1.0	0.3

y = 1.3476E-004 * x + 2.2542E-004
R = 1.0000
DL = 0.5278 ppb
BEC = 1.673 ppb

Weight: <None>
Min Conc: <None>

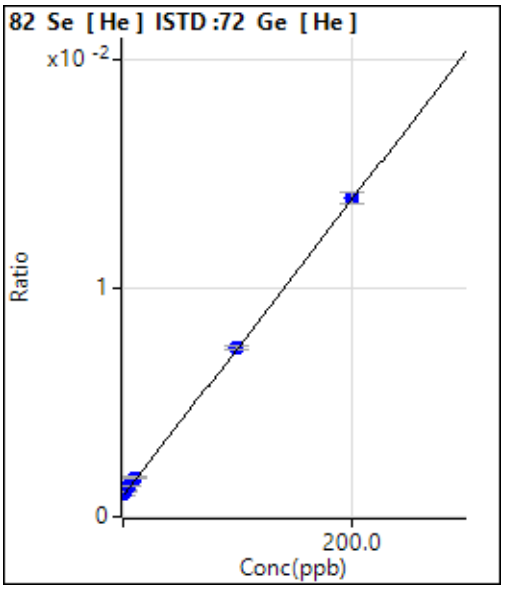
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-339.17	-0.0001	P	-31.1	
2	☐	2.000	1.971	93.73	0.0000	P	26.7	-1.5
3	☐	5.000	5.517	868.79	0.0004	P	14.5	10.3
4	☐	10.000	9.368	1723.94	0.0007	P	18.4	-6.3
5	☐	100.000	97.899	20711.26	0.0089	P	3.7	-2.1
6	☐	200.000	201.069	42358.86	0.0183	P	1.1	0.5

y = 9.1953E-005 * x - 1.4207E-004
R = 0.9999
DL = 1.44 ppb
BEC = -1.545 ppb

Weight: <None>
Min Conc: <None>

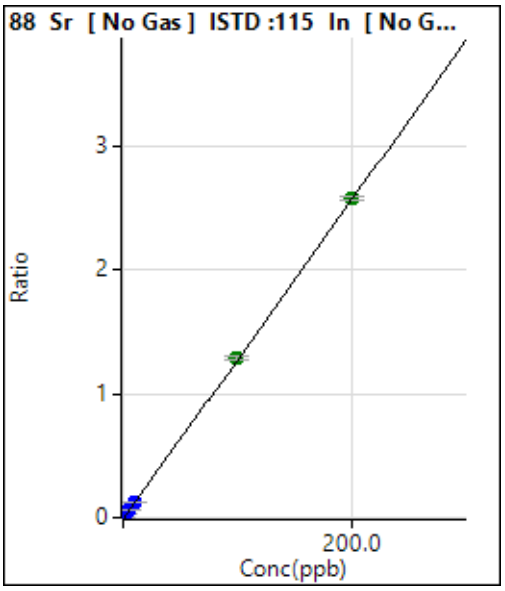


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	576.69	0.0010	P	16.6	
2	☐	2.000	2.265	670.03	0.0011	P	9.2	13.2
3	☐	5.000	5.624	796.71	0.0013	P	4.6	12.5
4	☐	10.000	11.331	996.73	0.0017	P	7.3	13.3
5	☐	100.000	99.208	4387.46	0.0074	P	2.5	-0.8
6	☐	200.000	200.311	8022.53	0.0139	P	3.1	0.2

y = 6.4724E-005 * x + 9.7783E-004
R = 1.0000
DL = 7.511 ppb
BEC = 15.11 ppb

Weight: <None>
Min Conc: <None>

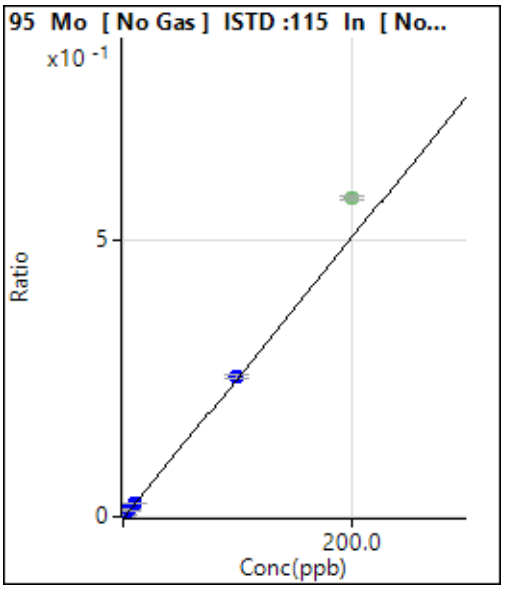
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1980.19	0.0007	P	8.3	
2	☐	2.000	1.888	68726.30	0.0251	P	0.4	-5.6
3	☐	5.000	4.626	166624.37	0.0604	P	0.9	-7.5
4	☐	10.000	9.507	335660.87	0.1235	P	1.1	-4.9
5	☐	100.000	100.035	3447825.36	1.2921	A	1.5	0.0
6	☐	200.000	200.018	6683341.57	2.5828	A	1.7	0.0

y = 0.0129 * x + 7.2876E-004
R = 1.0000
DL = 0.0141 ppb
BEC = 0.05645 ppb

Weight: <None>
Min Conc: <None>

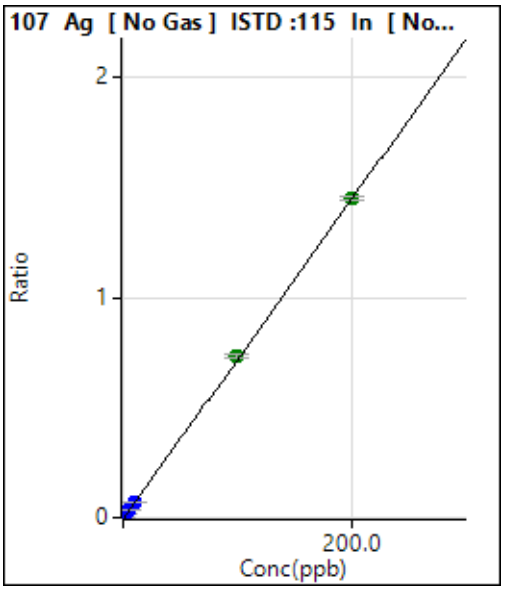


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	46.67	0.0000	P	66.8	
2	☐	2.000	1.928	13440.36	0.0049	P	3.0	-3.6
3	☐	5.000	4.829	33826.58	0.0123	P	3.7	-3.4
4	☐	10.000	9.590	66214.34	0.0244	P	1.7	-4.1
5	☐	100.000	100.051	677565.04	0.2539	P	2.0	0.1
6	☑	200.000		1492615.03	0.5768	A	1.2	

y = 0.0025 * x + 1.7278E-005
R = 1.0000
DL = 0.01364 ppb
BEC = 0.006808 ppb

Weight: <None>
Min Conc: <None>

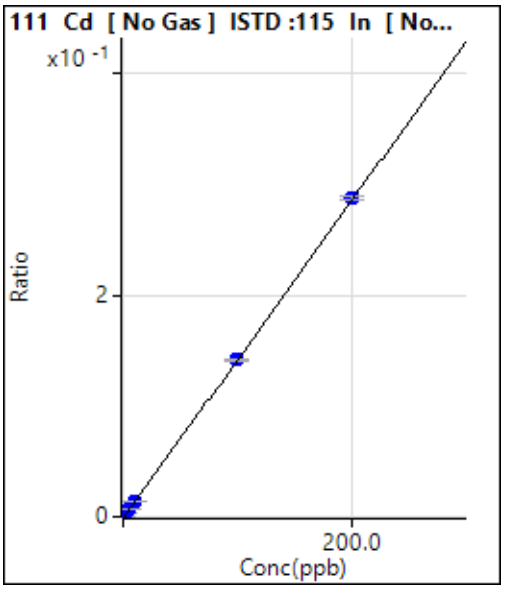
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	660.03	0.0002	P	10.4	
2	☐	2.000	1.867	37827.84	0.0138	P	1.5	-6.7
3	☐	5.000	4.611	93106.71	0.0338	P	1.1	-7.8
4	☐	10.000	9.381	186166.49	0.0685	P	0.5	-6.2
5	☐	100.000	100.873	1958163.72	0.7338	A	1.6	0.9
6	☐	200.000	199.606	3757107.96	1.4519	A	1.4	-0.2

y = 0.0073 * x + 2.4299E-004
R = 1.0000
DL = 0.01044 ppb
BEC = 0.03341 ppb

Weight: <None>
Min Conc: <None>

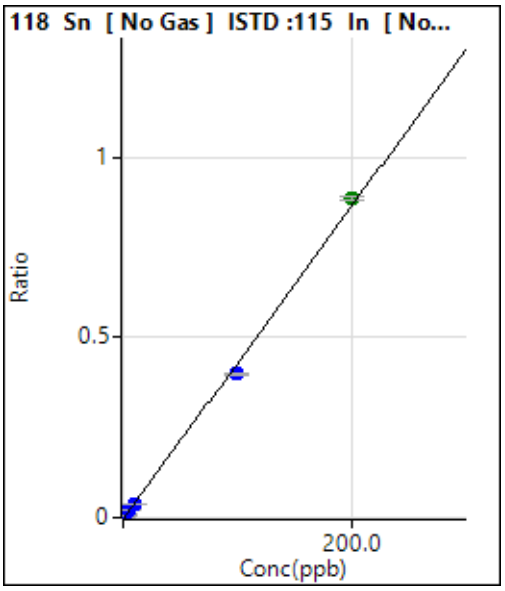


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10.00	0.0000	P	1.5	
2	☐	2.000	1.888	7418.87	0.0027	P	4.8	-5.6
3	☐	5.000	4.800	18987.30	0.0069	P	2.3	-4.0
4	☐	10.000	9.794	38199.00	0.0141	P	2.4	-2.1
5	☐	100.000	98.604	377370.21	0.1414	P	0.6	-1.4
6	☐	200.000	200.714	744876.13	0.2879	P	0.7	0.4

y = 0.0014 * x + 3.6787E-006
R = 1.0000
DL = 0.0001133 ppb
BEC = 0.002565 ppb

Weight: <None>
Min Conc: <None>

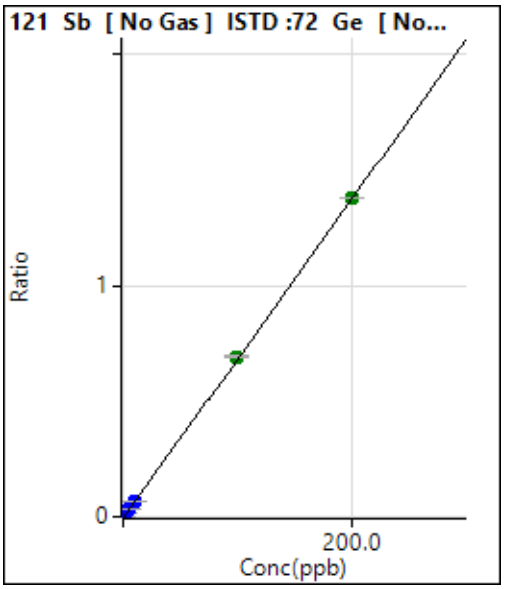
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	656.69	0.0002	P	13.0	
2	☐	2.000	1.790	21968.61	0.0080	P	1.1	-10.5
3	☐	5.000	4.453	54037.82	0.0196	P	1.4	-10.9
4	☐	10.000	9.072	107907.37	0.0397	P	0.3	-9.3
5	☐	100.000	92.084	1069081.76	0.4006	P	1.4	-7.9
6	☐	200.000	204.020	2296310.80	0.8874	A	1.6	2.0

y = 0.0043 * x + 2.4128E-004
R = 0.9989
DL = 0.02163 ppb
BEC = 0.05549 ppb

Weight: <None>
Min Conc: <None>

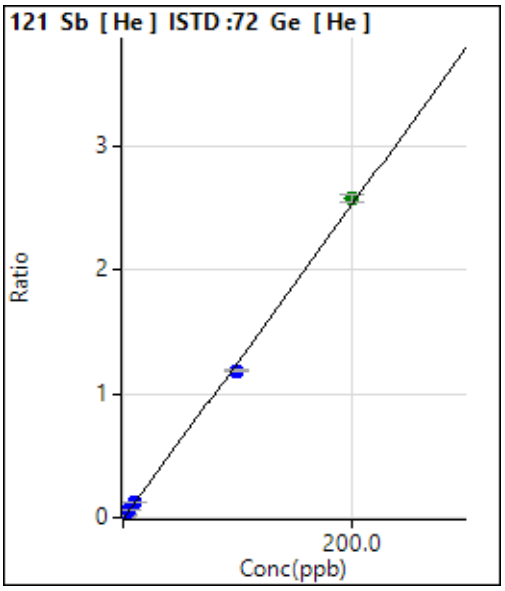


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	383.35	0.0002	P	19.3	
2	☐	2.000	1.819	30435.85	0.0127	P	0.9	-9.1
3	☐	5.000	4.655	76764.01	0.0323	P	3.8	-6.9
4	☐	10.000	9.264	153735.87	0.0641	P	1.5	-7.4
5	☐	100.000	100.390	1618973.41	0.6927	A	1.6	0.4
6	☐	200.000	199.852	3182845.47	1.3788	A	0.5	-0.1

y = 0.0069 * x + 1.6053E-004
R = 1.0000
DL = 0.01348 ppb
BEC = 0.02327 ppb

Weight: <None>
Min Conc: <None>

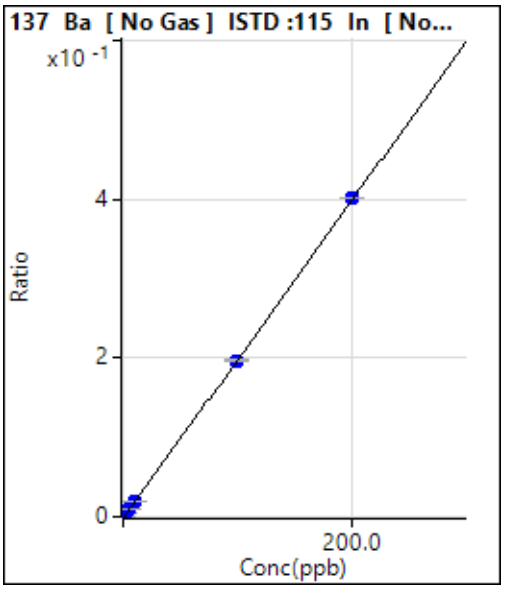
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	180.01	0.0003	P	28.8	
2	☐	2.000	1.845	14147.91	0.0237	P	4.2	-7.7
3	☐	5.000	4.613	34963.46	0.0589	P	0.7	-7.7
4	☐	10.000	9.390	69668.08	0.1196	P	1.2	-6.1
5	☐	100.000	93.401	703652.49	1.1867	P	0.8	-6.6
6	☐	200.000	203.341	1485987.63	2.5832	A	2.1	1.7

y = 0.0127 * x + 3.0508E-004
R = 0.9993
DL = 0.02075 ppb
BEC = 0.02402 ppb

Weight: <None>
Min Conc: <None>

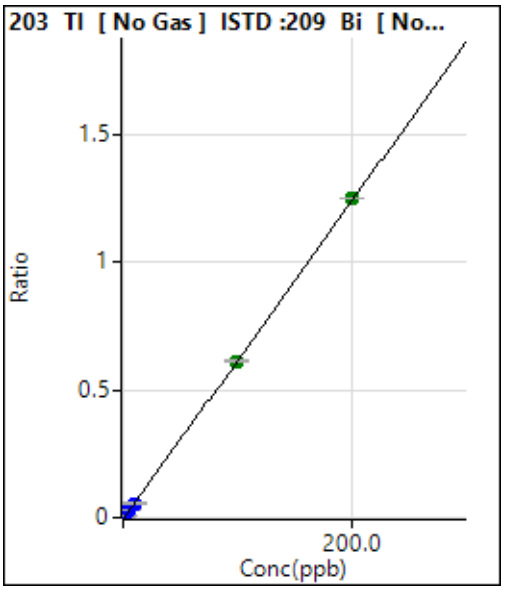


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	236.67	0.0001	P	24.5	
2	☐	2.000	1.908	10687.88	0.0039	P	1.7	-4.6
3	☐	5.000	4.740	26387.13	0.0096	P	2.3	-5.2
4	☐	10.000	9.767	53373.15	0.0196	P	1.6	-2.3
5	☐	100.000	98.533	526380.49	0.1973	P	0.6	-1.5
6	☐	200.000	200.753	1039729.31	0.4018	P	0.5	0.4

y = 0.0020 * x + 8.6845E-005
R = 1.0000
DL = 0.03193 ppb
BEC = 0.0434 ppb

Weight: <None>
Min Conc: <None>

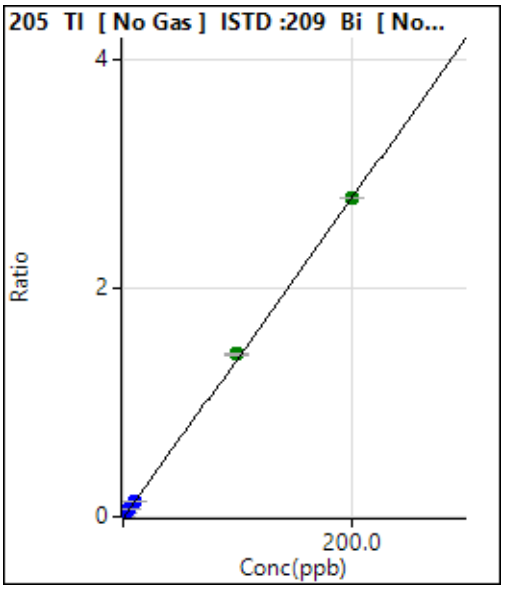
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	40.00	0.0000	P	51.3	
2	☐	2.000	1.758	26612.02	0.0109	P	3.0	-12.1
3	☐	5.000	4.381	67461.87	0.0272	P	1.1	-12.4
4	☐	10.000	9.063	138606.93	0.0564	P	2.6	-9.4
5	☐	100.000	98.375	1446057.06	0.6116	A	1.0	-1.6
6	☐	200.000	200.877	2883971.94	1.2488	A	0.6	0.4

y = 0.0062 * x + 1.6640E-005
R = 1.0000
DL = 0.004123 ppb
BEC = 0.002677 ppb

Weight: <None>
Min Conc: <None>

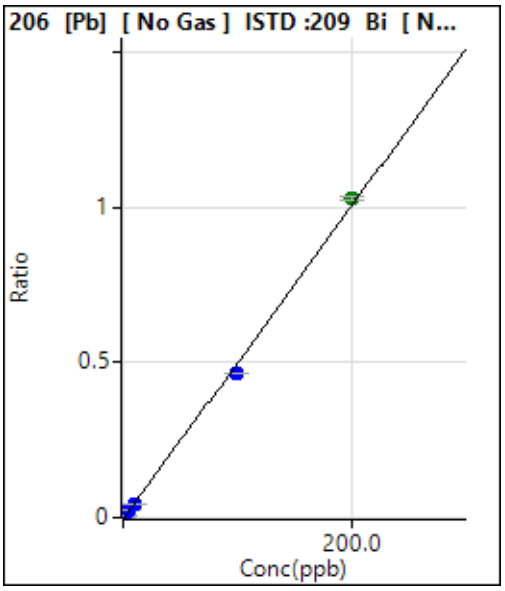


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	63.33	0.0000	P	54.4	
2	☐	2.000	1.865	63699.04	0.0262	P	1.9	-6.7
3	☐	5.000	4.647	161475.22	0.0652	P	1.6	-7.1
4	☐	10.000	9.387	324004.72	0.1317	P	1.2	-6.1
5	☐	100.000	101.634	3371844.01	1.4261	A	1.3	1.6
6	☐	200.000	199.224	6455167.82	2.7954	A	0.5	-0.4

y = 0.0140 * x + 2.6096E-005
R = 0.9999
DL = 0.003033 ppb
BEC = 0.00186 ppb

Weight: <None>
Min Conc: <None>

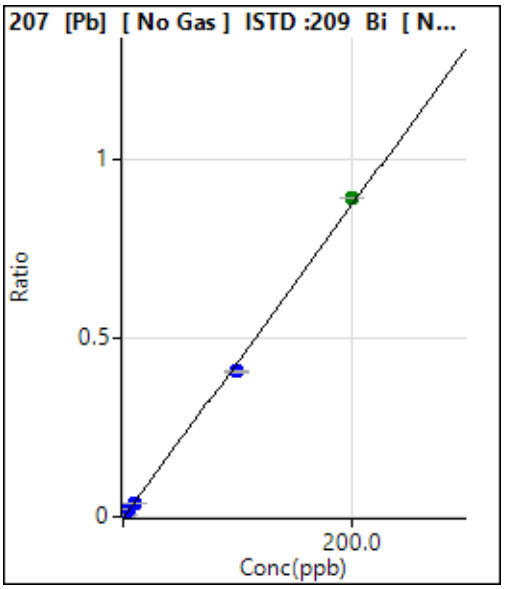
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	303.34	0.0001	P	15.0	
2	☐	2.000	1.795	22343.72	0.0092	P	0.9	-10.3
3	☐	5.000	4.444	55852.01	0.0226	P	0.4	-11.1
4	☐	10.000	9.006	112141.24	0.0456	P	2.6	-9.9
5	☐	100.000	92.528	1104982.90	0.4673	P	0.0	-7.5
6	☐	200.000	203.802	2376639.13	1.0291	A	1.1	1.9

y = 0.0050 * x + 1.2586E-004
R = 0.9991
DL = 0.01123 ppb
BEC = 0.02493 ppb

Weight: <None>
Min Conc: <None>

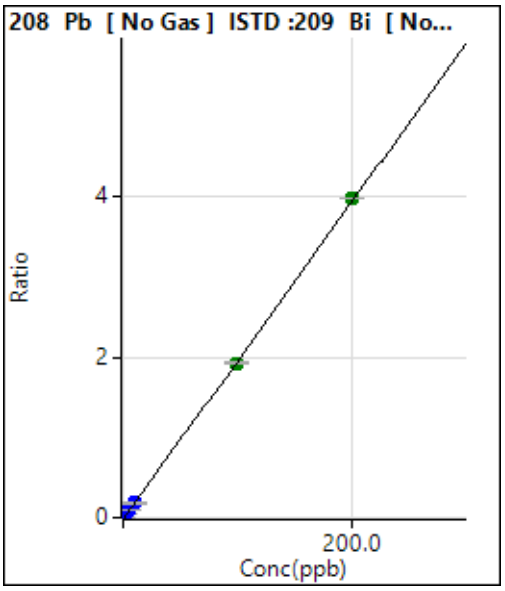


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	210.01	0.0001	P	14.3	
2	☐	2.000	1.738	18731.00	0.0077	P	2.6	-13.1
3	☐	5.000	4.434	48317.23	0.0195	P	1.3	-11.3
4	☐	10.000	9.016	97382.44	0.0396	P	3.4	-9.8
5	☐	100.000	92.733	961084.75	0.4065	P	0.9	-7.3
6	☐	200.000	203.699	2061619.39	0.8927	A	0.1	1.8

y = 0.0044 * x + 8.7127E-005
R = 0.9991
DL = 0.008531 ppb
BEC = 0.01988 ppb

Weight: <None>
Min Conc: <None>

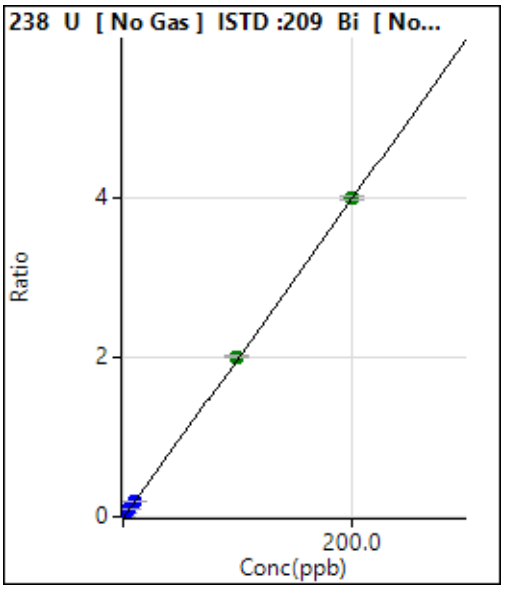
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1016.71	0.0004	P	2.2	
2	☐	2.000	1.821	88575.50	0.0364	P	1.1	-9.0
3	☐	5.000	4.499	221252.86	0.0894	P	0.7	-10.0
4	☐	10.000	9.171	447032.27	0.1818	P	2.6	-8.3
5	☐	100.000	97.328	4551448.71	1.9249	A	0.8	-2.7
6	☐	200.000	201.392	9197262.93	3.9826	A	0.4	0.7

y = 0.0198 * x + 4.2123E-004
R = 0.9999
DL = 0.001415 ppb
BEC = 0.0213 ppb

Weight: <None>
Min Conc: <None>

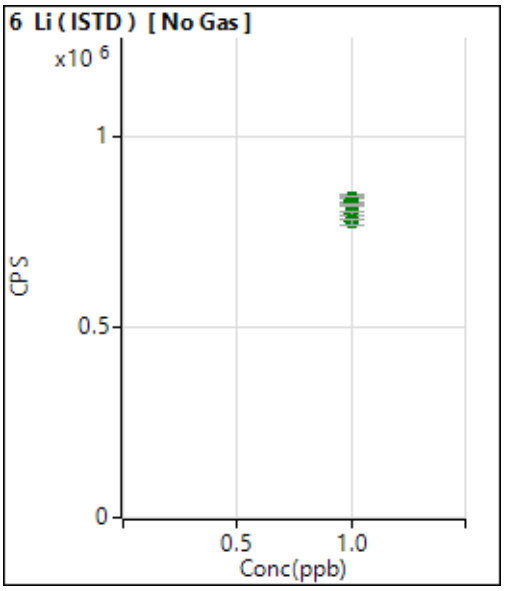


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3.33	0.0000	P	173.2	
2	☐	2.000	1.824	88629.32	0.0364	P	0.7	-8.8
3	☐	5.000	4.491	222079.12	0.0897	P	2.2	-10.2
4	☐	10.000	9.280	455924.11	0.1854	P	1.8	-7.2
5	☐	100.000	100.300	4737348.05	2.0037	A	1.4	0.3
6	☐	200.000	199.901	9221955.69	3.9934	A	0.6	0.0

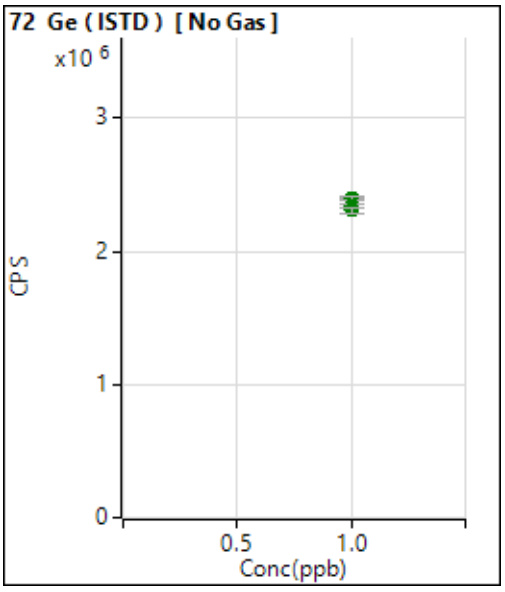
y = 0.0200 * x + 1.3724E-006
R = 1.0000
DL = 0.000357 ppb
BEC = 6.87E-05 ppb

Weight: <None>
Min Conc: <None>

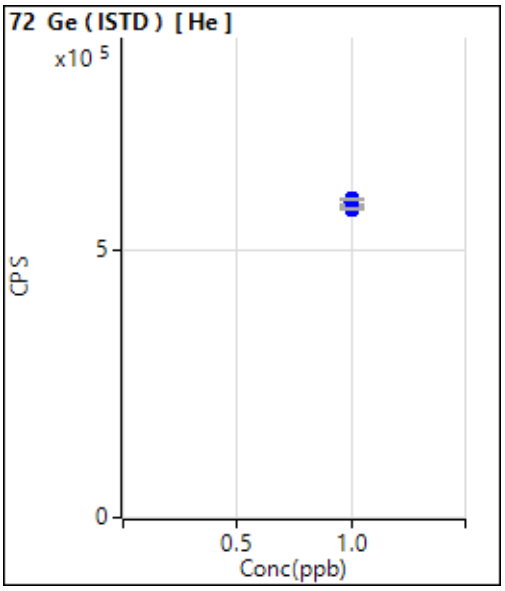
Calibration for 166_ICV.d



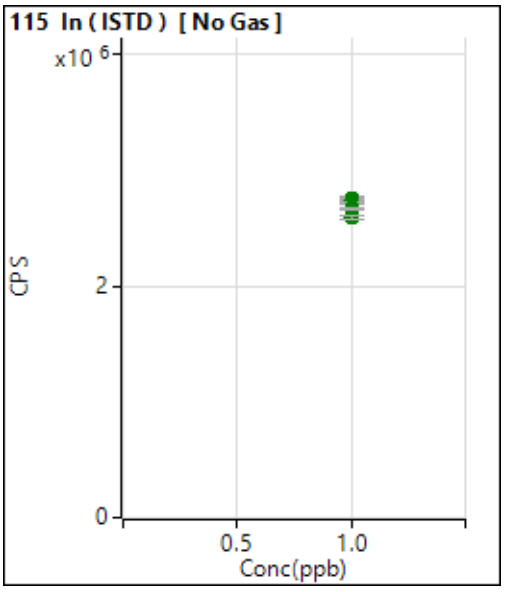
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		839052.94		A	2.6	
2	☐	1.000		829475.28		A	2.1	
3	☐	1.000		832336.79		A	2.6	
4	☐	1.000		822479.99		A	0.8	
5	☐	1.000		796908.73		A	1.5	
6	☐	1.000		777082.83		A	2.1	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2387222.36		A	0.4	
2	☐	1.000		2395304.81		A	0.7	
3	☐	1.000		2379728.35		A	1.6	
4	☐	1.000		2399767.88		A	1.1	
5	☐	1.000		2337324.65		A	1.3	
6	☐	1.000		2308506.22		A	1.7	

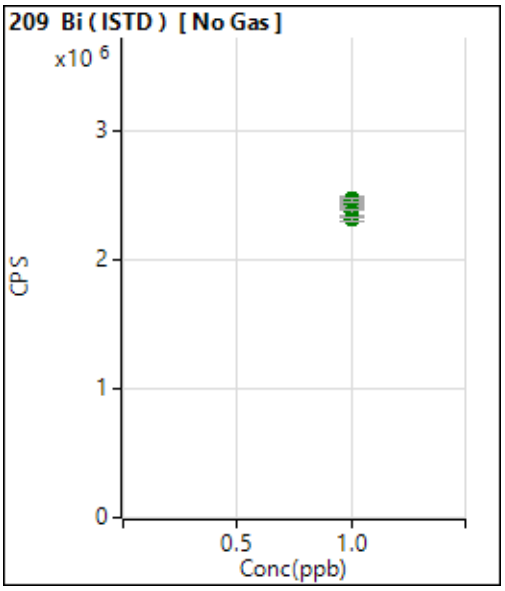


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		589069.89		P	1.4	
2	☐	1.000		595842.33		P	0.3	
3	☐	1.000		593656.89		P	0.5	
4	☐	1.000		582632.71		P	0.7	
5	☐	1.000		592952.67		P	0.4	
6	☐	1.000		575305.88		P	0.8	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2718731.60		A	1.5	
2	☐	1.000		2737850.42		A	2.1	
3	☐	1.000		2756566.87		A	0.4	
4	☐	1.000		2718971.55		A	0.7	
5	☐	1.000		2668537.40		A	0.5	
6	☐	1.000		2587534.48		A	1.0	

Calibration for 166_ICV.d



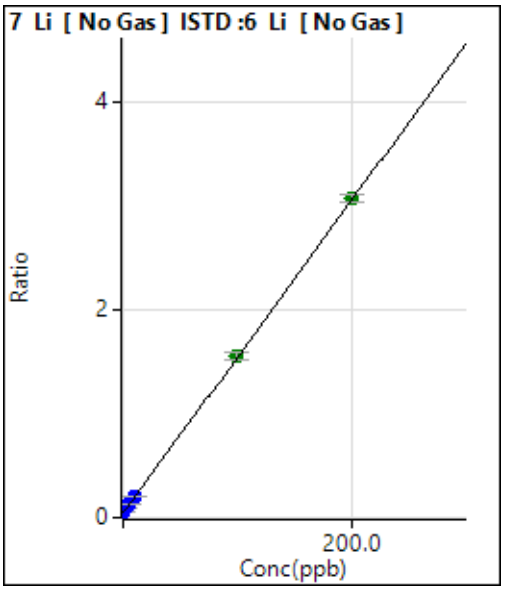
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2414089.44		A	1.6	
2	☐	1.000		2431866.42		A	0.7	
3	☐	1.000		2475668.56		A	0.9	
4	☐	1.000		2459760.43		A	1.2	
5	☐	1.000		2364680.85		A	1.7	
6	☐	1.000		2309296.58		A	0.9	

Calibration for 103_ICV.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\083022A.b\
Analysis File: 083022A.batch.bin
DA Date-Time: 08/30/2022 22:08:01
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	096CALB.d	CAL BLK	08/30/2022 15:38:21
2	097CALS.d	2/10/200	08/30/2022 15:40:20
3	098CALS.d	5/25/500	08/30/2022 15:42:18
4	099CALS.d	10/50/100	08/30/2022 15:44:16
5	100CALS.d	100/500/10K	08/30/2022 15:46:13
6	101CALS.d	200/1000/20K	08/30/2022 15:48:05

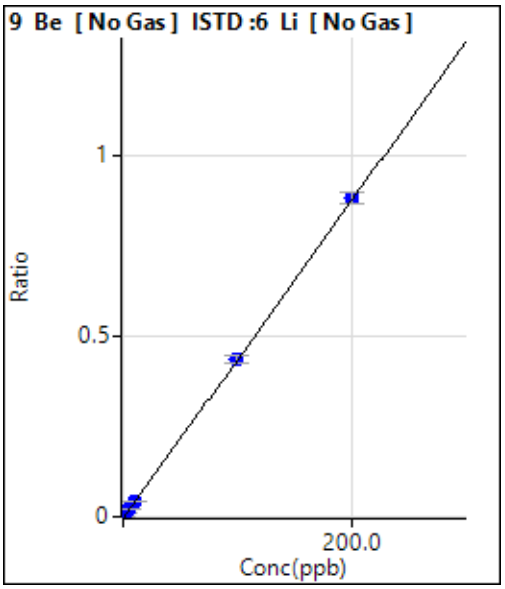
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	39465.21	0.0588	P	3.2	
2	☐	2.000	2.024	58176.55	0.0893	P	2.6	1.2
3	☐	5.000	4.608	88095.55	0.1282	P	3.8	-7.8
4	☐	10.000	9.958	137449.96	0.2088	P	1.1	-0.4
5	☐	100.000	99.619	1068795.51	1.5593	A	4.9	-0.4
6	☐	200.000	200.202	2071583.51	3.0742	A	2.9	0.1

y = 0.0151 * x + 0.0588
R = 1.0000
DL = 0.3737 ppb
BEC = 3.903 ppb

Weight: <None>
Min Conc: <None>

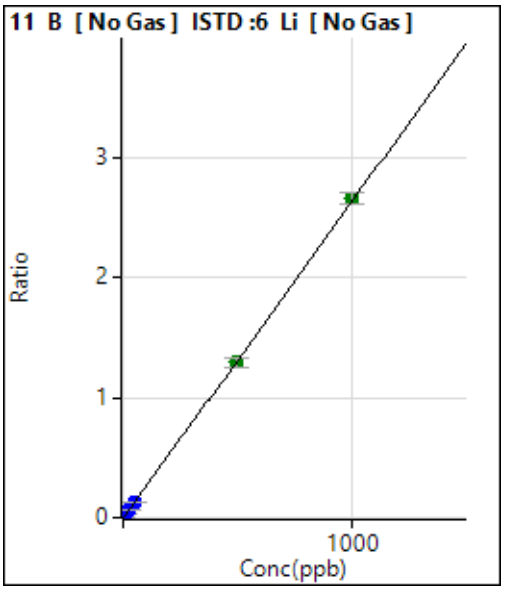


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8.33	0.0000	P	33.4	
2	☐	2.000	2.015	5772.91	0.0089	P	3.5	0.7
3	☐	5.000	4.855	14659.38	0.0213	P	4.1	-2.9
4	☐	10.000	10.219	29549.38	0.0449	P	0.5	2.2
5	☐	100.000	98.694	297018.76	0.4334	P	4.6	-1.3
6	☐	200.000	200.646	593665.60	0.8811	P	3.2	0.3

y = 0.0044 * x + 1.2358E-005
R = 1.0000
DL = 0.002819 ppb
BEC = 0.002814 ppb

Weight: <None>
Min Conc: <None>

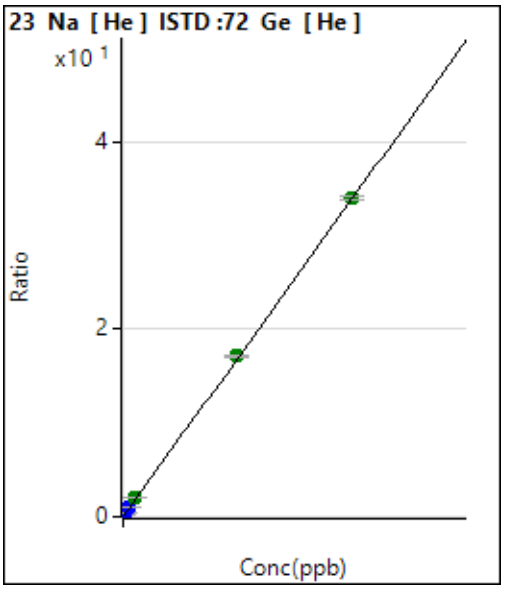
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5212.67	0.0078	P	3.1	
2	☐	10.000	9.408	21214.44	0.0326	P	0.2	-5.9
3	☐	25.000	22.395	45893.17	0.0668	P	2.1	-10.4
4	☐	50.000	47.806	88024.24	0.1337	P	0.9	-4.4
5	☐	500.000	487.747	885792.46	1.2927	A	5.5	-2.5
6	☐	1000.000	1006.307	1791514.35	2.6587	A	3.1	0.6

y = 0.0026 * x + 0.0078
R = 0.9999
DL = 0.2772 ppb
BEC = 2.948 ppb

Weight: <None>
Min Conc: <None>

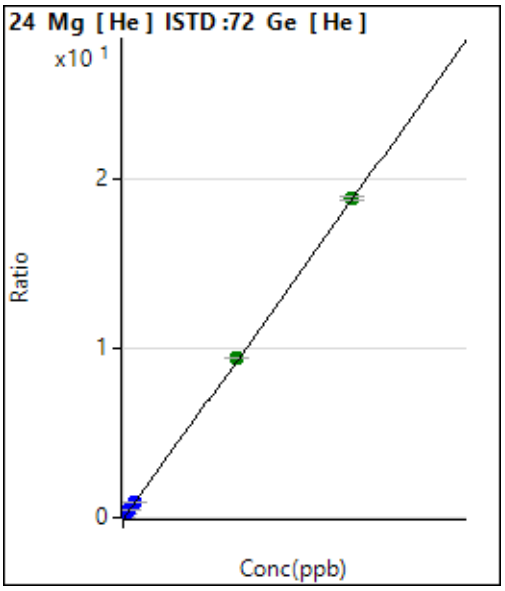


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	115024.53	0.1738	P	1.4	
2	☐	200.000	186.513	327356.61	0.4893	P	1.1	-6.7
3	☐	500.000	473.040	647926.32	0.9740	P	0.0	-5.4
4	☐	1000.000	1062.315	1321021.67	1.9709	A	1.5	6.2
5	☐	10000.00	10019.82	11194732.33	17.1238	A	0.8	0.2
6	☐	20000.00	19987.78	21901411.34	33.9860	A	0.8	-0.1

y = 0.0017 * x + 0.1738
R = 1.0000
DL = 4.451 ppb
BEC = 102.7 ppb

Weight: <None>
Min Conc: <None>

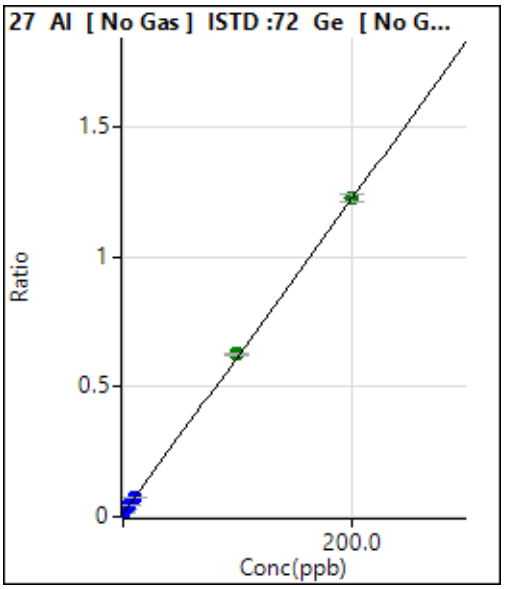
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	423.35	0.0006	P	15.3	
2	☐	200.000	187.238	118521.13	0.1772	P	1.5	-6.4
3	☐	500.000	470.281	295365.44	0.4440	P	0.4	-5.9
4	☐	1000.000	936.890	592485.25	0.8840	P	0.3	-6.3
5	☐	10000.00	9971.886	6146642.41	9.4023	A	0.0	-0.3
6	☐	20000.00	20018.08	12163021.90	18.8740	A	1.0	0.1

y = 9.4282E-004 * x + 6.3961E-004
R = 1.0000
DL = 0.3123 ppb
BEC = 0.6784 ppb

Weight: <None>
Min Conc: <None>

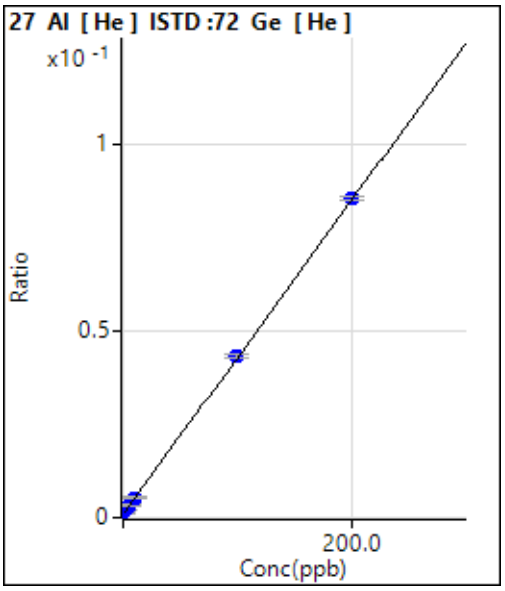


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	47137.03	0.0183	P	2.2	
2	☐	2.000	1.892	76798.18	0.0297	P	2.9	-5.4
3	☐	5.000	4.544	119675.40	0.0457	P	2.1	-9.1
4	☐	10.000	8.904	189856.27	0.0721	P	0.9	-11.0
5	☐	100.000	100.573	1609004.98	0.6262	A	1.1	0.6
6	☐	200.000	199.781	3092891.62	1.2258	A	3.0	-0.1

y = 0.0060 * x + 0.0183
R = 1.0000
DL = 0.1957 ppb
BEC = 3.023 ppb

Weight: <None>
Min Conc: <None>

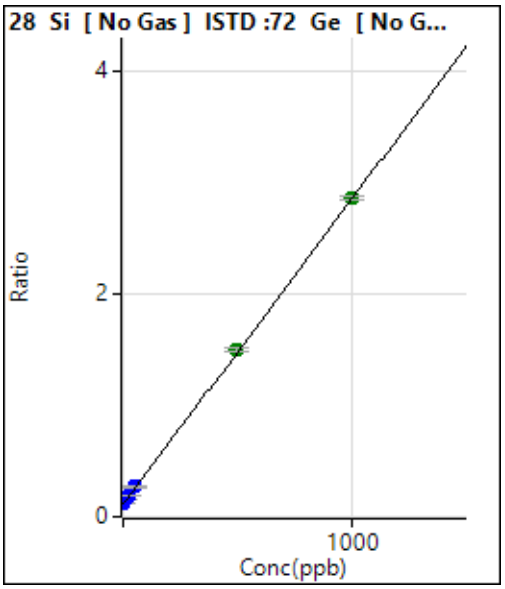
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	900.04	0.0014	P	13.9	
2	☐	2.000	1.493	1330.08	0.0020	P	5.2	-25.3
3	☐	5.000	4.677	2213.54	0.0033	P	8.7	-6.5
4	☐	10.000	9.509	3593.87	0.0054	P	6.9	-4.9
5	☐	100.000	99.652	28309.04	0.0433	P	1.6	-0.3
6	☐	200.000	200.211	55179.51	0.0856	P	1.5	0.1

y = 4.2089E-004 * x + 0.0014
R = 1.0000
DL = 1.343 ppb
BEC = 3.232 ppb

Weight: <None>
Min Conc: <None>

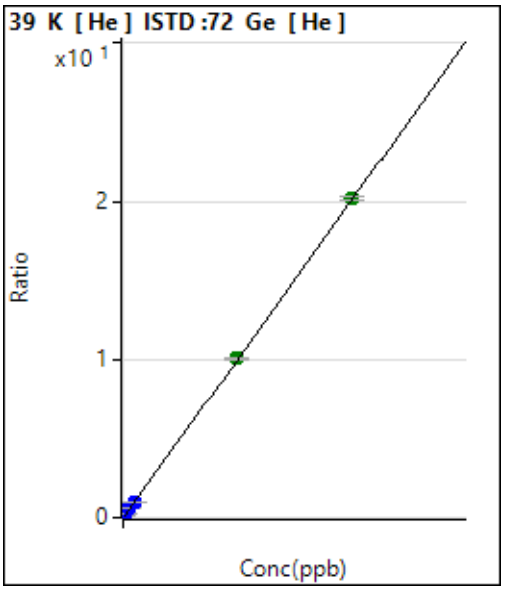


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	325885.94	0.1263	P	0.5	
2	☐	10.000	10.175	398618.44	0.1542	P	2.1	1.7
3	☐	25.000	24.937	509224.86	0.1946	P	1.5	-0.3
4	☐	50.000	53.271	716744.99	0.2722	P	6.5	6.5
5	☐	500.000	501.448	3852188.28	1.4992	A	1.8	0.3
6	☐	1000.000	999.112	7221609.89	2.8617	A	1.7	-0.1

y = 0.0027 * x + 0.1263
R = 1.0000
DL = 0.7351 ppb
BEC = 46.13 ppb

Weight: <None>
Min Conc: <None>

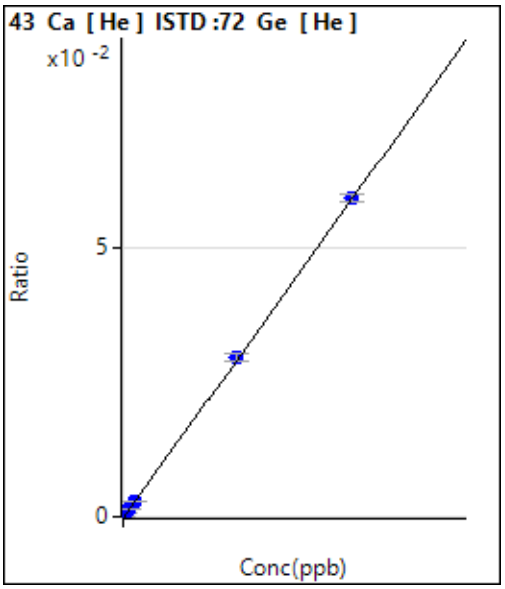
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	53848.32	0.0814	P	1.8	
2	☐	200.000	186.415	179646.76	0.2685	P	1.6	-6.8
3	☐	500.000	474.821	371269.36	0.5581	P	0.2	-5.0
4	☐	1000.000	936.834	685029.37	1.0220	P	0.8	-6.3
5	☐	10000.00	9961.886	6592571.15	10.0839	A	1.2	-0.4
6	☐	20000.00	20022.98	13008363.14	20.1861	A	1.0	0.1

y = 0.0010 * x + 0.0814
R = 1.0000
DL = 4.42 ppb
BEC = 81.04 ppb

Weight: <None>
Min Conc: <None>

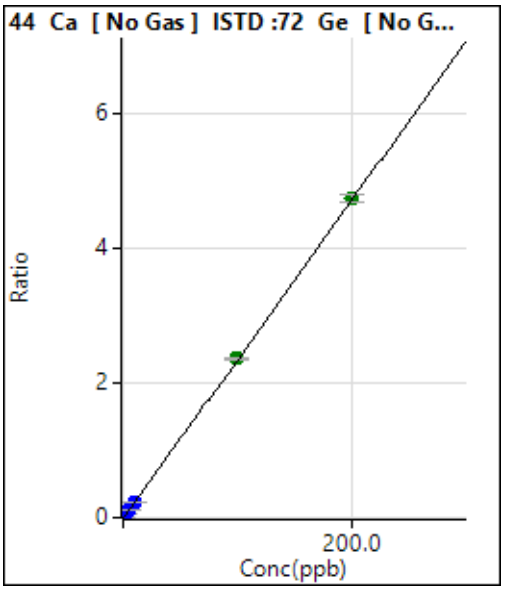


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	34.5	
2	☐	200.000	221.631	456.68	0.0007	P	9.1	10.8
3	☐	500.000	493.128	990.05	0.0015	P	7.2	-1.4
4	☐	1000.000	950.525	1906.83	0.0028	P	3.2	-4.9
5	☐	10000.00	10004.67	19420.64	0.0297	P	4.0	0.0
6	☐	20000.00	20000.09	38250.08	0.0594	P	2.8	0.0

y = 2.9665E-006 * x + 2.5168E-005
R = 1.0000
DL = 8.77 ppb
BEC = 8.484 ppb

Weight: <None>
Min Conc: <None>

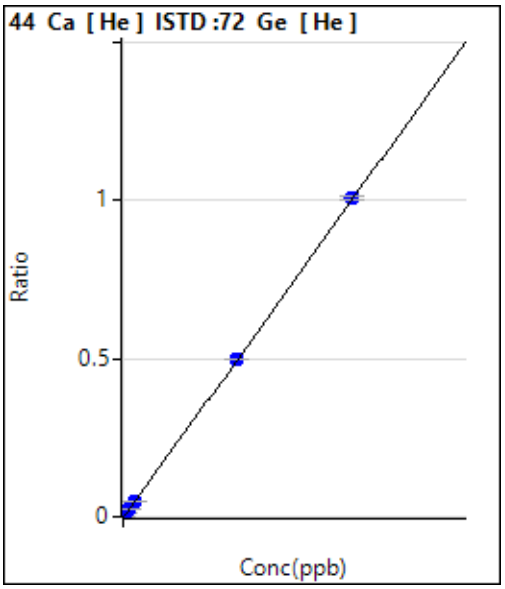
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	21650.67	0.0084	P	3.7	
2	☐	2.000	1.884	137057.44	0.0530	P	1.4	-5.8
3	☐	5.000	4.673	311509.81	0.1190	P	2.0	-6.5
4	☐	10.000	9.256	599297.77	0.2276	P	0.9	-7.4
5	☐	100.000	99.521	6076073.87	2.3648	A	1.8	-0.5
6	☐	200.000	200.286	11988043.57	4.7507	A	2.0	0.1

y = 0.0237 * x + 0.0084
R = 1.0000
DL = 0.03957 ppb
BEC = 0.3545 ppb

Weight: <None>
Min Conc: <None>

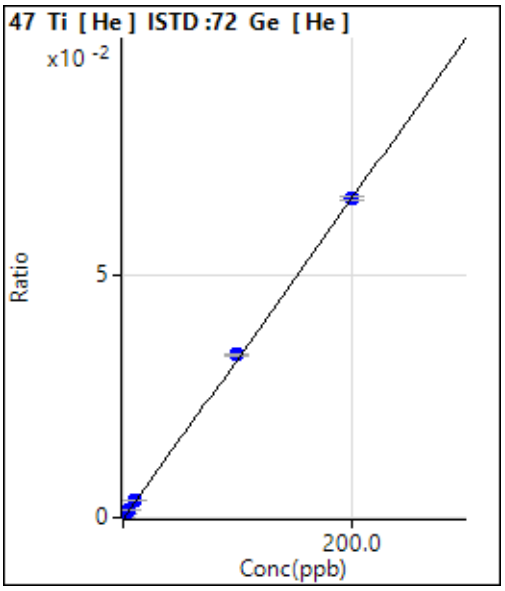


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	646.70	0.0010	P	1.7	
2	☐	200.000	197.330	7282.10	0.0109	P	2.1	-1.3
3	☐	500.000	500.030	17351.17	0.0261	P	1.5	0.0
4	☐	1000.000	976.194	33507.86	0.0500	P	3.8	-2.4
5	☐	10000.00	9904.985	325763.02	0.4983	P	0.9	-1.0
6	☐	20000.00	20048.72	649316.76	1.0076	P	0.9	0.2

y = 5.0209E-005 * x + 9.7706E-004
R = 1.0000
DL = 0.9917 ppb
BEC = 19.46 ppb

Weight: <None>
Min Conc: <None>

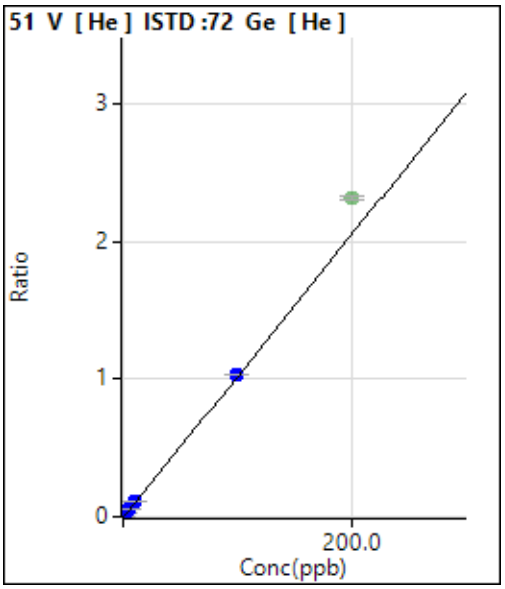
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	173.2	
2	☐	2.000	2.267	510.02	0.0008	P	13.8	13.3
3	☐	5.000	4.773	1060.06	0.0016	P	8.4	-4.5
4	☐	10.000	10.734	2393.59	0.0036	P	7.9	7.3
5	☐	100.000	101.541	22028.04	0.0337	P	2.0	1.5
6	☐	200.000	199.196	42593.01	0.0661	P	1.5	-0.4

y = 3.3176E-004 * x + 1.0137E-005
R = 1.0000
DL = 0.1588 ppb
BEC = 0.03055 ppb

Weight: <None>
Min Conc: <None>

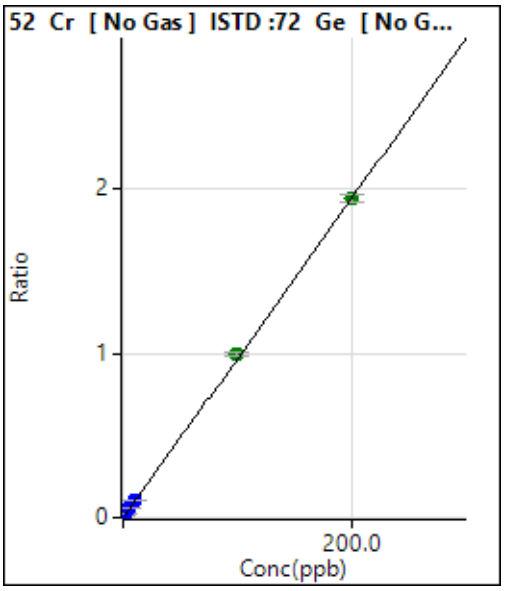


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2785.86	0.0042	P	3.2	
2	☐	2.000	1.985	16497.74	0.0247	P	2.5	-0.8
3	☐	5.000	4.974	36887.29	0.0555	P	0.8	-0.5
4	☐	10.000	9.945	71499.85	0.1067	P	0.7	-0.6
5	☐	100.000	100.007	676370.49	1.0346	P	0.7	0.0
6	☑	200.000		1495214.42	2.3202	A	1.6	

y = 0.0103 * x + 0.0042
R = 1.0000
DL = 0.03959 ppb
BEC = 0.4086 ppb

Weight: <None>
Min Conc: <None>

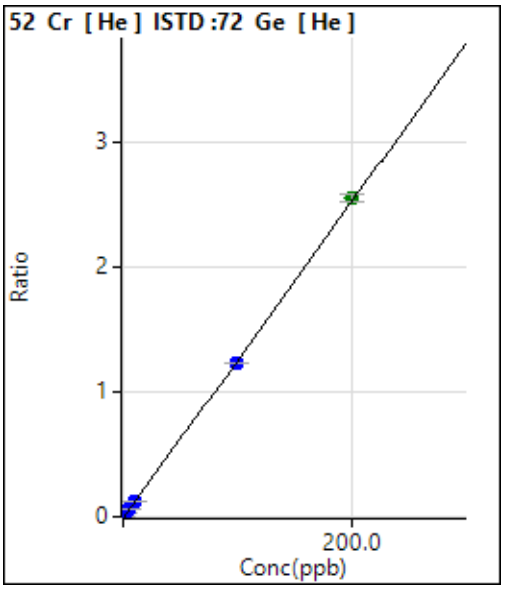
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	18793.19	0.0073	P	2.0	
2	☐	2.000	1.938	67573.07	0.0261	P	0.2	-3.1
3	☐	5.000	4.879	143203.02	0.0547	P	1.6	-2.4
4	☐	10.000	9.615	265395.29	0.1008	P	1.0	-3.8
5	☐	100.000	101.904	2564500.59	0.9981	A	2.0	1.9
6	☐	200.000	199.071	4902769.51	1.9429	A	1.8	-0.5

y = 0.0097 * x + 0.0073
R = 0.9999
DL = 0.04493 ppb
BEC = 0.7491 ppb

Weight: <None>
Min Conc: <None>

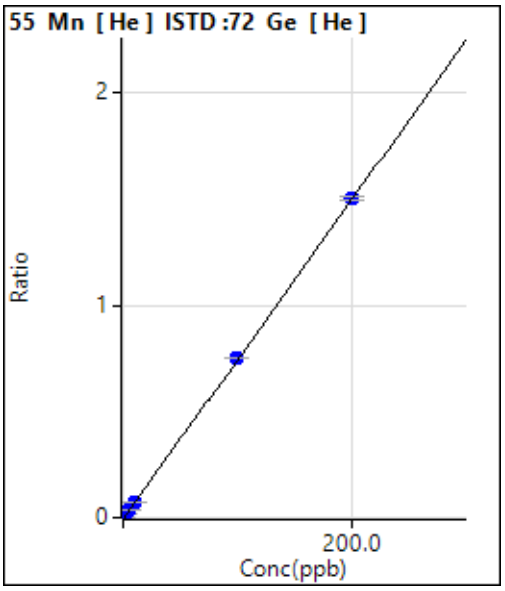


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	606.69	0.0009	P	6.2	
2	☐	2.000	1.943	17077.62	0.0255	P	1.2	-2.8
3	☐	5.000	4.835	41342.70	0.0621	P	1.0	-3.3
4	☐	10.000	9.595	82055.07	0.1224	P	0.7	-4.1
5	☐	100.000	97.138	804782.62	1.2311	P	0.2	-2.9
6	☐	200.000	201.456	1644574.72	2.5521	A	2.4	0.7

y = 0.0127 * x + 9.1650E-004
R = 0.9999
DL = 0.01341 ppb
BEC = 0.07237 ppb

Weight: <None>
Min Conc: <None>

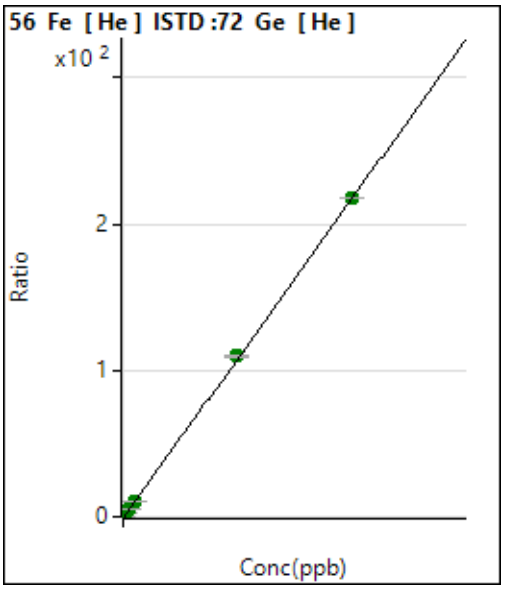
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	503.35	0.0008	P	14.1	
2	☐	2.000	2.002	10574.22	0.0158	P	0.6	0.1
3	☐	5.000	4.876	24882.97	0.0374	P	1.6	-2.5
4	☐	10.000	10.066	51216.17	0.0764	P	1.1	0.7
5	☐	100.000	100.049	492089.59	0.7527	P	0.5	0.0
6	☐	200.000	199.975	969057.80	1.5038	P	1.1	0.0

y = 0.0075 * x + 7.6033E-004
R = 1.0000
DL = 0.04276 ppb
BEC = 0.1012 ppb

Weight: <None>
Min Conc: <None>

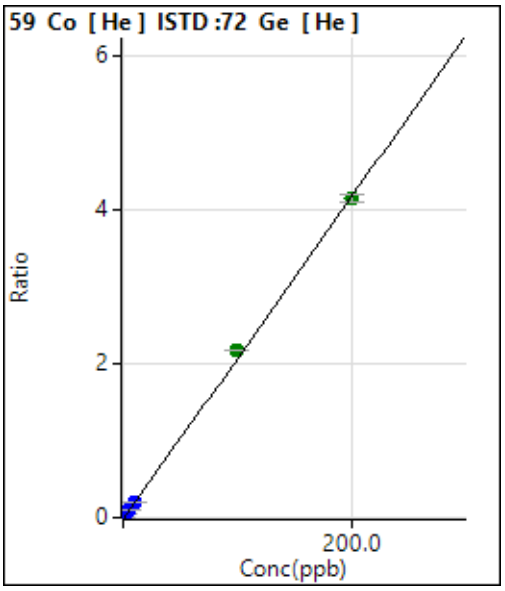


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11425.00	0.0173	P	2.5	
2	☐	200.000	209.238	1539409.77	2.3010	A	0.9	4.6
3	☐	500.000	512.765	3734418.69	5.6139	A	0.1	2.6
4	☐	1000.000	1001.344	7337120.73	10.9466	A	0.7	0.1
5	☐	10000.00	10066.89	71844403.93	109.894	A	0.9	0.7
6	☐	20000.00	19966.07	140448941.2	217.940	A	0.4	-0.2

y = 0.0109 * x + 0.0173
R = 1.0000
DL = 0.1193 ppb
BEC = 1.581 ppb

Weight: <None>
Min Conc: <None>

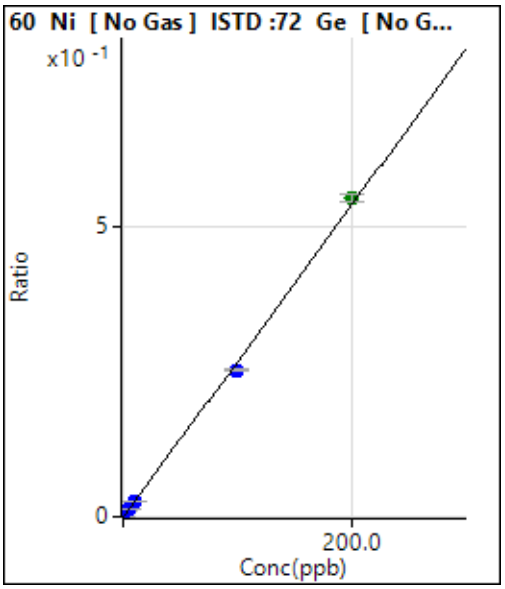
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	63.33	0.0001	P	18.9	
2	☐	2.000	1.925	27047.22	0.0404	P	3.6	-3.7
3	☐	5.000	4.789	66800.17	0.1004	P	2.3	-4.2
4	☐	10.000	9.548	134131.34	0.2001	P	0.2	-4.5
5	☐	100.000	104.089	1425521.39	2.1806	A	0.2	4.1
6	☐	200.000	197.984	2672680.79	4.1475	A	1.8	-1.0

y = 0.0209 * x + 9.5793E-005
R = 0.9997
DL = 0.002599 ppb
BEC = 0.004573 ppb

Weight: <None>
Min Conc: <None>

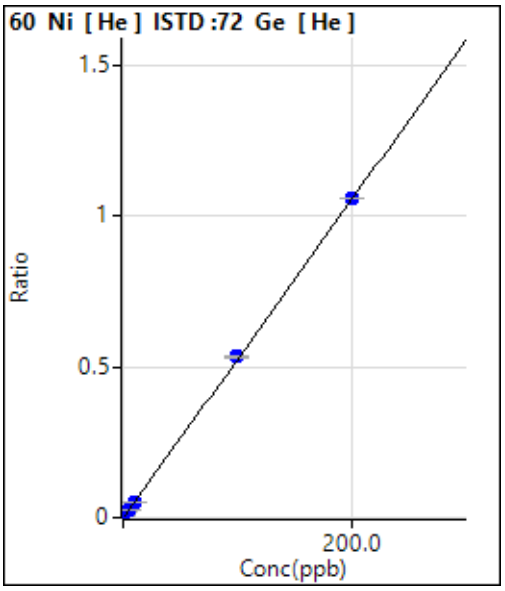


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4020.67	0.0016	P	4.0	
2	☐	2.000	2.844	23777.79	0.0092	P	2.9	42.2
3	☐	5.000	4.203	33611.78	0.0128	P	2.6	-15.9
4	☐	10.000	8.894	67008.19	0.0254	P	2.1	-11.1
5	☐	100.000	93.051	646158.98	0.2515	P	1.0	-6.9
6	☐	200.000	203.541	1383270.97	0.5482	A	2.5	1.8

y = 0.0027 * x + 0.0016
R = 0.9991
DL = 0.06966 ppb
BEC = 0.5803 ppb

Weight: <None>
Min Conc: <None>

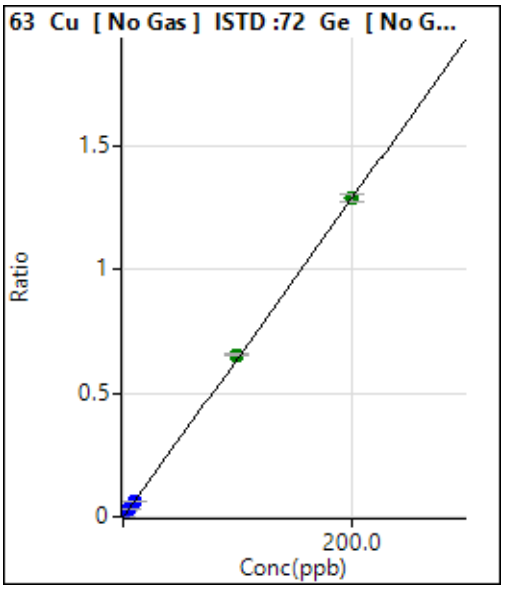
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2320.24	0.0035	P	2.5	
2	☐	2.000	2.963	12799.52	0.0191	P	1.7	48.1
3	☐	5.000	4.504	18132.33	0.0273	P	1.9	-9.9
4	☐	10.000	9.390	35543.37	0.0530	P	1.2	-6.1
5	☐	100.000	100.408	348467.63	0.5330	P	0.9	0.4
6	☐	200.000	199.829	681408.87	1.0574	P	0.1	-0.1

y = 0.0053 * x + 0.0035
R = 1.0000
DL = 0.05027 ppb
BEC = 0.6648 ppb

Weight: <None>
Min Conc: <None>

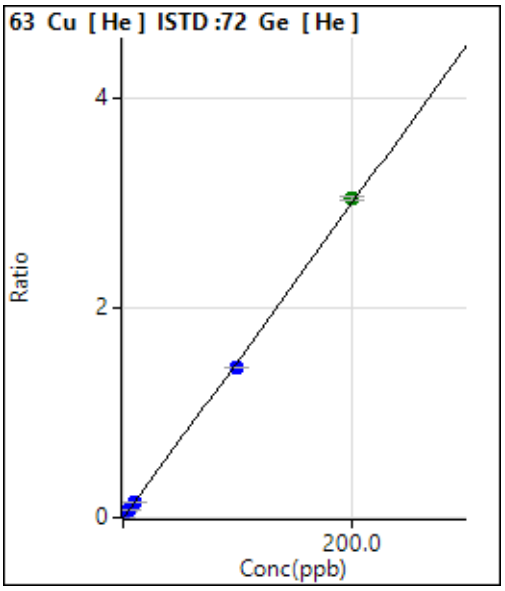


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8839.71	0.0034	P	5.0	
2	☑	2.000		66190.78	0.0256	P	2.0	
3	☐	5.000	4.303	81516.93	0.0311	P	1.4	-13.9
4	☐	10.000	9.141	164105.16	0.0623	P	1.2	-8.6
5	☐	100.000	101.220	1684066.95	0.6555	A	2.1	1.2
6	☐	200.000	199.451	3250963.18	1.2882	A	1.8	-0.3

y = 0.0064 * x + 0.0034
R = 1.0000
DL = 0.08025 ppb
BEC = 0.5319 ppb

Weight: <None>
Min Conc: <None>

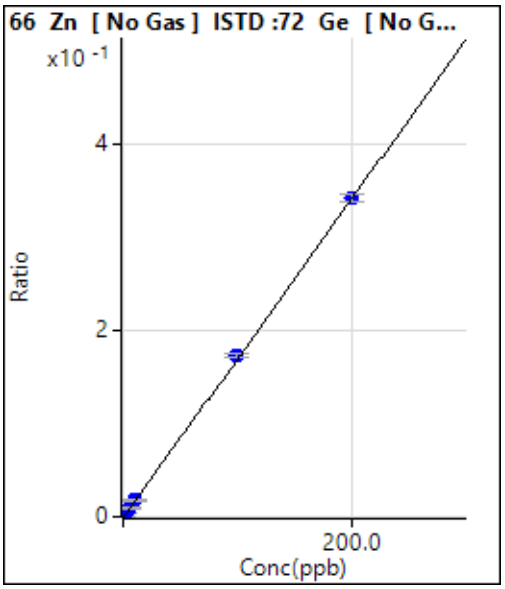
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5041.04	0.0076	P	1.6	
2	☑	2.000		39430.81	0.0589	P	1.1	
3	☐	5.000	4.482	49911.81	0.0750	P	1.5	-10.4
4	☐	10.000	9.323	99092.79	0.1478	P	1.2	-6.8
5	☐	100.000	95.318	942212.07	1.4413	P	0.2	-4.7
6	☐	200.000	202.388	1966575.44	3.0517	A	0.8	1.2

y = 0.0150 * x + 0.0076
R = 0.9996
DL = 0.02424 ppb
BEC = 0.5064 ppb

Weight: <None>
Min Conc: <None>

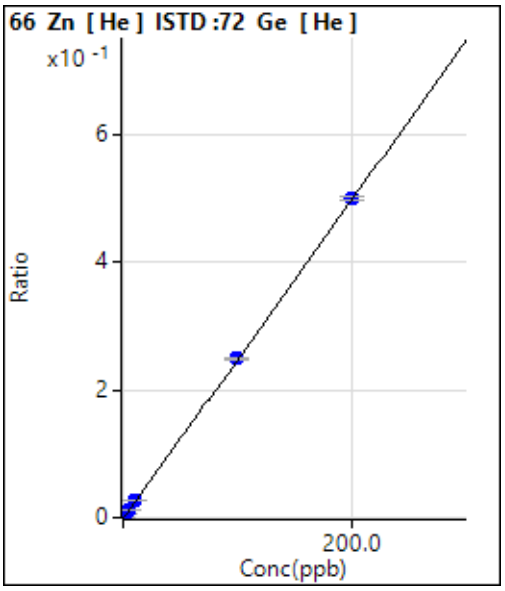


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1050.06	0.0004	P	10.6	
2	☐	2.000	2.025	10037.25	0.0039	P	2.3	1.3
3	☐	5.000	5.132	24098.35	0.0092	P	2.7	2.6
4	☐	10.000	10.051	46476.46	0.0176	P	1.3	0.5
5	☐	100.000	100.724	444972.59	0.1732	P	2.0	0.7
6	☐	200.000	199.632	865180.43	0.3428	P	2.0	-0.2

y = 0.0017 * x + 4.0688E-004
R = 1.0000
DL = 0.07536 ppb
BEC = 0.2372 ppb

Weight: <None>
Min Conc: <None>

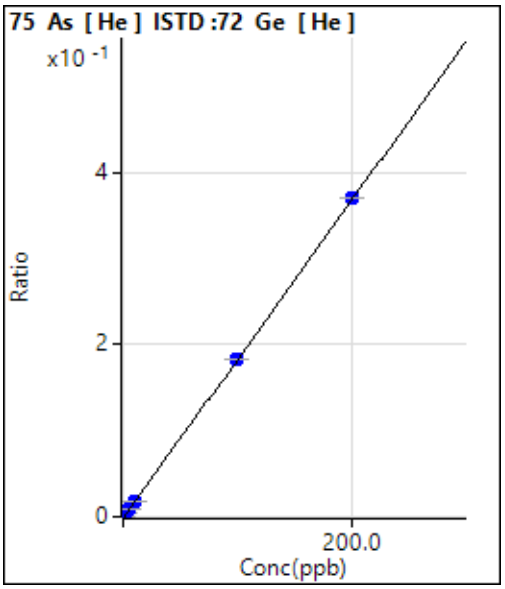
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	370.01	0.0006	P	5.5	
2	☐	2.000	2.008	3723.91	0.0056	P	5.9	0.4
3	☐	5.000	4.952	8589.52	0.0129	P	1.3	-1.0
4	☐	10.000	10.154	17351.32	0.0259	P	0.9	1.5
5	☐	100.000	99.763	163040.38	0.2494	P	0.9	-0.2
6	☐	200.000	200.112	322030.13	0.4997	P	1.3	0.1

y = 0.0025 * x + 5.5924E-004
R = 1.0000
DL = 0.03683 ppb
BEC = 0.2242 ppb

Weight: <None>
Min Conc: <None>

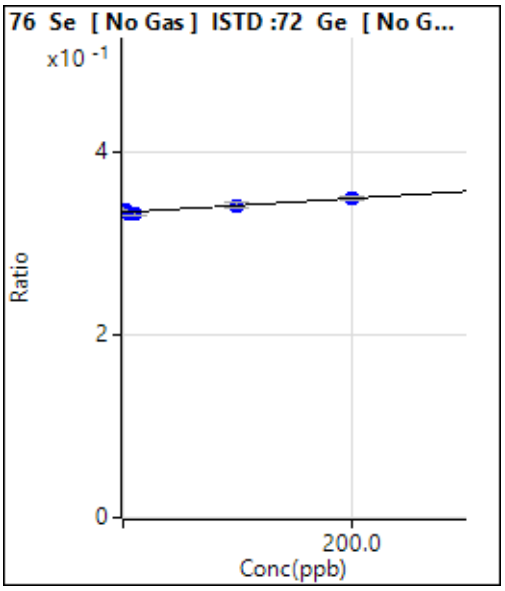


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	124.44	0.0002	P	11.8	
2	☐	2.000	1.920	2494.69	0.0037	P	2.9	-4.0
3	☐	5.000	4.929	6173.66	0.0093	P	0.7	-1.4
4	☐	10.000	9.892	12355.71	0.0184	P	2.7	-1.1
5	☐	100.000	99.069	119590.42	0.1829	P	0.9	-0.9
6	☐	200.000	200.474	238428.67	0.3700	P	0.6	0.2

y = 0.0018 * x + 1.8813E-004
R = 1.0000
DL = 0.03624 ppb
BEC = 0.102 ppb

Weight: <None>
Min Conc: <None>

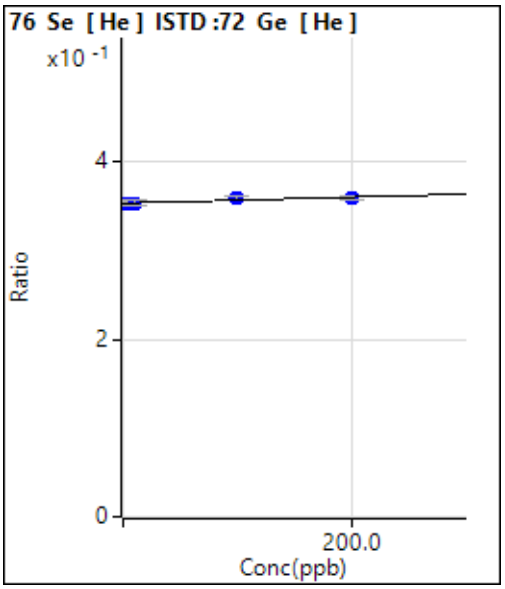
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	862301.23	0.3342	P	0.7	
2	☐	2.000	23.667	868924.44	0.3360	P	1.5	1083.4
3	☐	5.000	-5.744	873410.90	0.3338	P	2.2	-214.9
4	☐	10.000	-14.719	877195.95	0.3331	P	1.3	-247.2
5	☐	100.000	101.349	878877.54	0.3420	P	1.4	1.3
6	☐	200.000	200.613	882613.76	0.3497	P	0.7	0.3

y = 7.7245E-005 * x + 0.3342
R = 0.9836
DL = 92.55 ppb
BEC = 4327 ppb

Weight: <None>
Min Conc: <None>

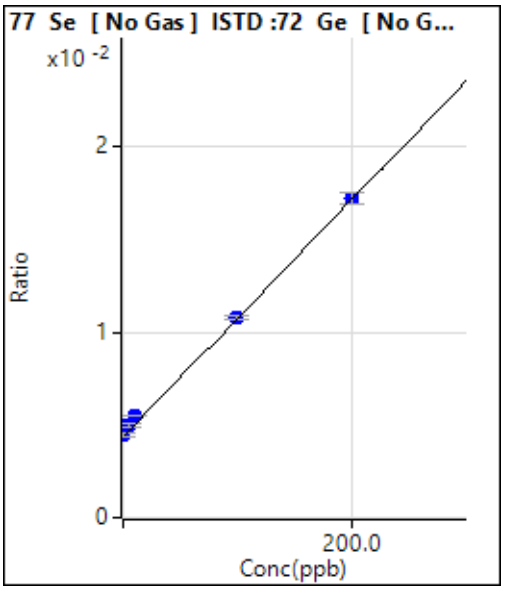


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	233957.22	0.3535	P	0.6	
2	☐	2.000	6.742	236642.33	0.3537	P	0.9	237.1
3	☐	5.000	-1.457	235112.30	0.3535	P	1.0	-129.1
4	☐	10.000	8.118	237128.12	0.3538	P	1.6	-18.8
5	☐	100.000	158.472	234679.58	0.3590	P	1.0	58.5
6	☐	200.000	170.972	231612.45	0.3594	P	0.9	-14.5

y = 3.4537E-005 * x + 0.3535
R = 0.9384
DL = 170.5 ppb
BEC = 1.024E+04 ppb

Weight: <None>
Min Conc: <None>

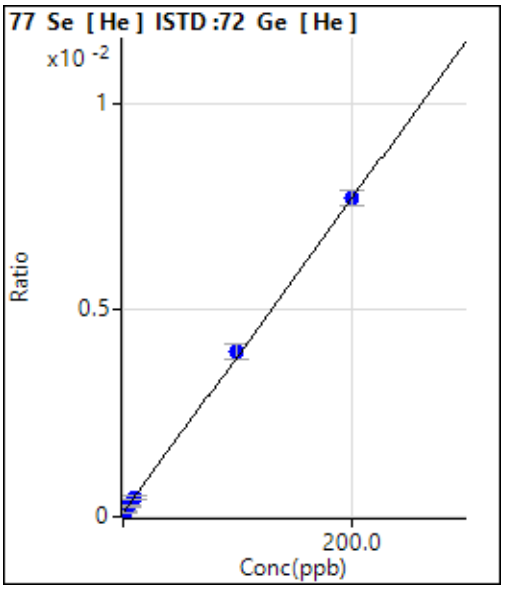
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11501.82	0.0045	P	6.3	
2	☐	2.000	8.295	12896.40	0.0050	P	5.5	314.7
3	☐	5.000	8.106	13023.16	0.0050	P	2.6	62.1
4	☐	10.000	16.688	14551.48	0.0055	P	0.9	66.9
5	☐	100.000	99.331	27762.30	0.0108	P	1.8	-0.7
6	☐	200.000	199.859	43463.71	0.0172	P	3.1	-0.1

y = 6.3875E-005 * x + 0.0045
R = 0.9994
DL = 13.11 ppb
BEC = 69.81 ppb

Weight: <None>
Min Conc: <None>

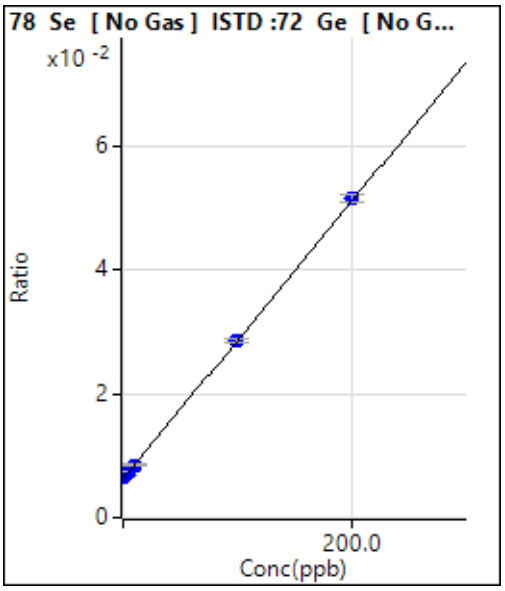


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	86.67	0.0001	P	37.7	
2	☐	2.000	-0.571	73.33	0.0001	P	20.2	-128.5
3	☐	5.000	3.401	173.34	0.0003	P	16.5	-32.0
4	☐	10.000	9.240	323.34	0.0005	P	20.7	-7.6
5	☐	100.000	101.321	2603.65	0.0040	P	9.3	1.3
6	☐	200.000	199.443	4971.01	0.0077	P	4.6	-0.3

y = 3.8014E-005 * x + 1.3122E-004
R = 0.9999
DL = 3.903 ppb
BEC = 3.452 ppb

Weight: <None>
Min Conc: <None>

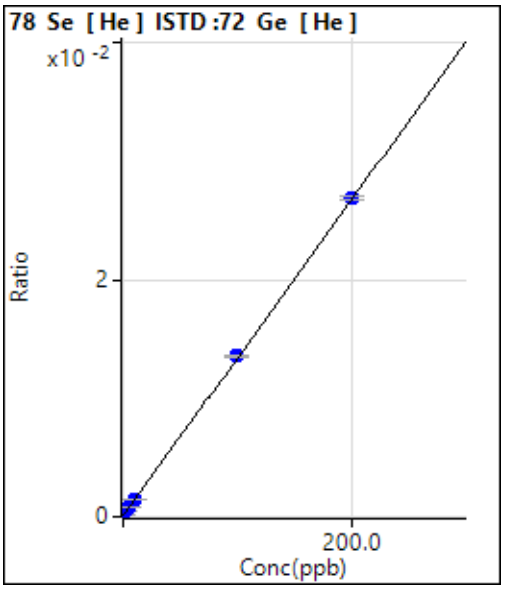
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16890.81	0.0065	P	1.3	
2	☐	2.000	1.409	17741.97	0.0069	P	2.1	-29.5
3	☐	5.000	4.295	19651.27	0.0075	P	2.3	-14.1
4	☐	10.000	8.641	22332.05	0.0085	P	2.9	-13.6
5	☐	100.000	97.926	73124.51	0.0285	P	1.9	-2.1
6	☐	200.000	201.128	130103.80	0.0516	P	1.9	0.6

y = 2.2378E-004 * x + 0.0065
R = 0.9999
DL = 1.166 ppb
BEC = 29.25 ppb

Weight: <None>
Min Conc: <None>

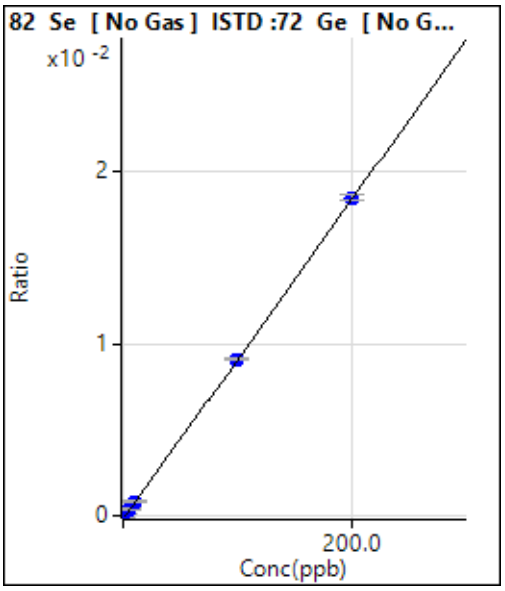


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	149.33	0.0002	P	12.6	
2	☐	2.000	2.090	337.34	0.0005	P	5.3	4.5
3	☐	5.000	4.637	561.35	0.0008	P	10.0	-7.3
4	☐	10.000	9.621	1010.71	0.0015	P	3.4	-3.8
5	☐	100.000	99.935	8854.93	0.0135	P	0.7	-0.1
6	☐	200.000	200.059	17328.46	0.0269	P	1.2	0.0

y = 1.3328E-004 * x + 2.2575E-004
R = 1.0000
DL = 0.6413 ppb
BEC = 1.694 ppb

Weight: <None>
Min Conc: <None>

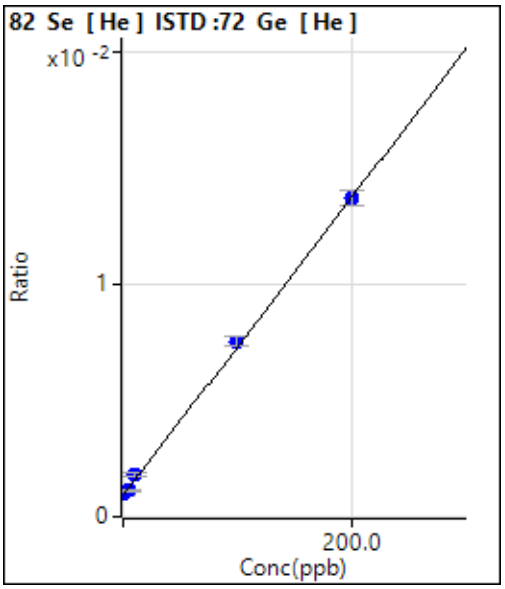
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-328.56	-0.0001	P	-61.5	
2	☐	2.000	3.507	510.89	0.0002	P	69.2	75.4
3	☐	5.000	5.061	899.63	0.0003	P	19.6	1.2
4	☐	10.000	10.232	2169.89	0.0008	P	5.6	2.3
5	☐	100.000	99.237	23390.81	0.0091	P	1.9	-0.8
6	☐	200.000	200.353	46718.75	0.0185	P	2.0	0.2

y = 9.3024E-005 * x - 1.2776E-004
R = 1.0000
DL = 2.535 ppb
BEC = -1.373 ppb

Weight: <None>
Min Conc: <None>

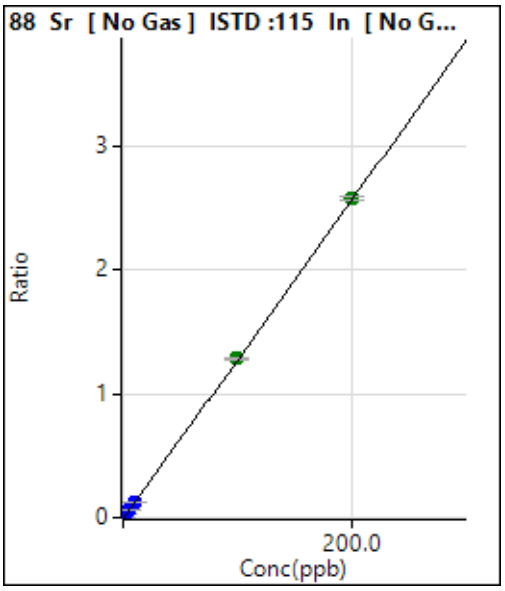


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	653.36	0.0010	P	11.9	
2	☐	2.000	1.715	733.37	0.0011	P	11.7	-14.2
3	☐	5.000	2.595	766.70	0.0012	P	7.5	-48.1
4	☐	10.000	12.798	1210.07	0.0018	P	10.0	28.0
5	☐	100.000	102.472	4931.00	0.0075	P	5.1	2.5
6	☐	200.000	198.687	8826.38	0.0137	P	4.7	-0.7

y = 6.3964E-005 * x + 9.8673E-004
R = 0.9997
DL = 5.507 ppb
BEC = 15.43 ppb

Weight: <None>
Min Conc: <None>

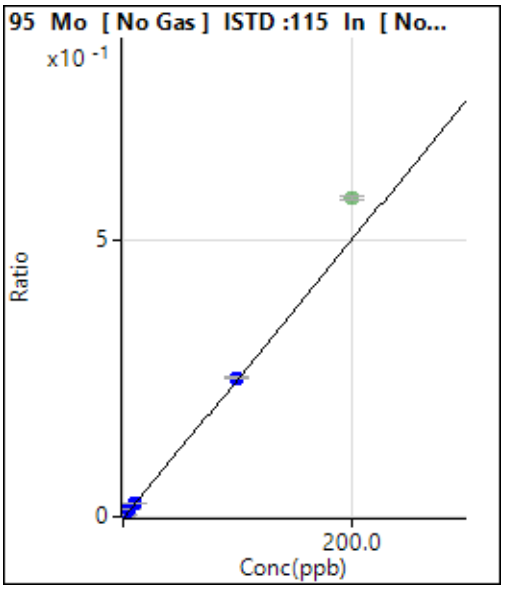
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2266.89	0.0008	P	6.2	
2	☐	2.000	1.901	75294.33	0.0252	P	1.2	-5.0
3	☐	5.000	4.689	186140.47	0.0611	P	1.2	-6.2
4	☐	10.000	9.666	372559.81	0.1252	P	0.6	-3.3
5	☐	100.000	99.536	3781168.80	1.2822	A	0.2	-0.5
6	☐	200.000	200.258	7366490.93	2.5789	A	1.0	0.1

y = 0.0129 * x + 7.6779E-004
R = 1.0000
DL = 0.01111 ppb
BEC = 0.05964 ppb

Weight: <None>
Min Conc: <None>

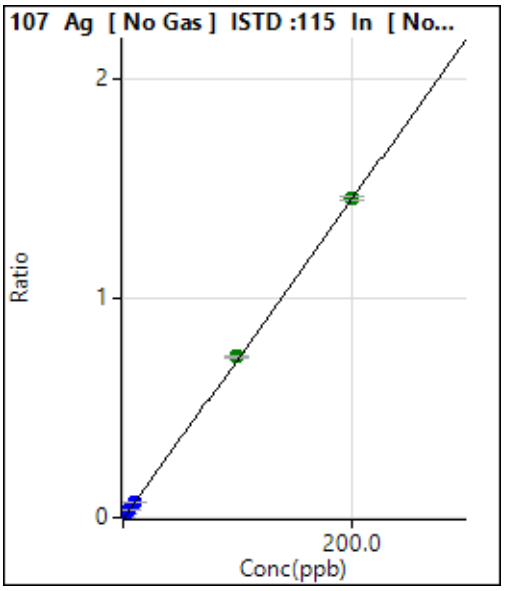


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	33.33	0.0000	P	121.6	
2	☐	2.000	2.034	15285.63	0.0051	P	0.4	1.7
3	☐	5.000	4.892	37473.17	0.0123	P	0.9	-2.2
4	☐	10.000	10.138	75868.95	0.0255	P	0.9	1.4
5	☐	100.000	99.991	741226.37	0.2514	P	0.9	0.0
6	☑	200.000		1645625.60	0.5760	A	1.4	

y = 0.0025 * x + 1.1339E-005
R = 1.0000
DL = 0.01646 ppb
BEC = 0.004511 ppb

Weight: <None>
Min Conc: <None>

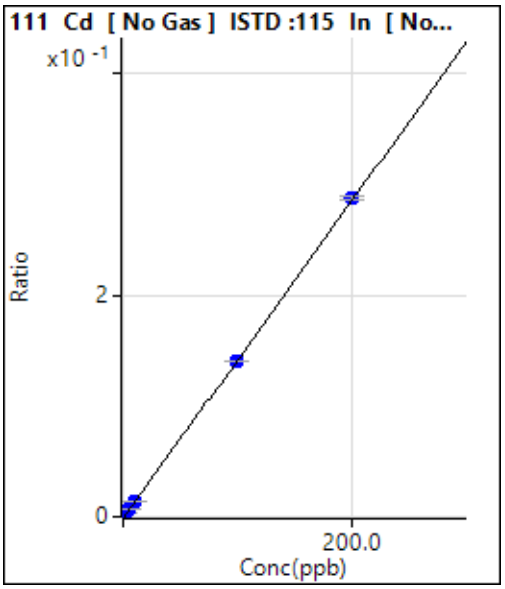
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	263.34	0.0001	P	12.7	
2	☐	2.000	1.904	41592.26	0.0139	P	2.2	-4.8
3	☐	5.000	4.654	103354.89	0.0339	P	0.6	-6.9
4	☐	10.000	9.647	209086.87	0.0703	P	0.6	-3.5
5	☐	100.000	100.580	2157796.27	0.7318	A	1.5	0.6
6	☐	200.000	199.737	4151272.23	1.4532	A	1.1	-0.1

y = 0.0073 * x + 8.9249E-005
R = 1.0000
DL = 0.004678 ppb
BEC = 0.01227 ppb

Weight: <None>
Min Conc: <None>

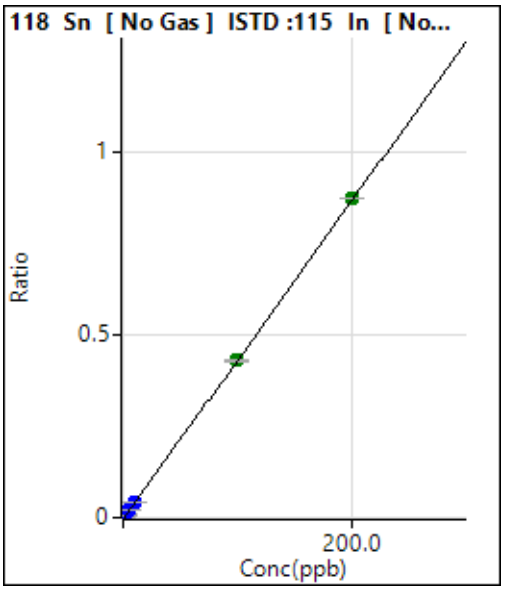


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	0.00	0.0000	P		
2	☐	2.000	2.027	8656.34	0.0029	P	5.7	1.3
3	☐	5.000	4.949	21567.95	0.0071	P	4.8	-1.0
4	☐	10.000	9.900	42147.67	0.0142	P	3.1	-1.0
5	☐	100.000	98.168	414285.80	0.1405	P	0.9	-1.8
6	☐	200.000	200.922	821384.15	0.2875	P	1.0	0.5

y = 0.0014 * x + 0.0000E+000
R = 0.9999
DL = 0 ppb
BEC = 0 ppb

Weight: <None>
Min Conc: <None>

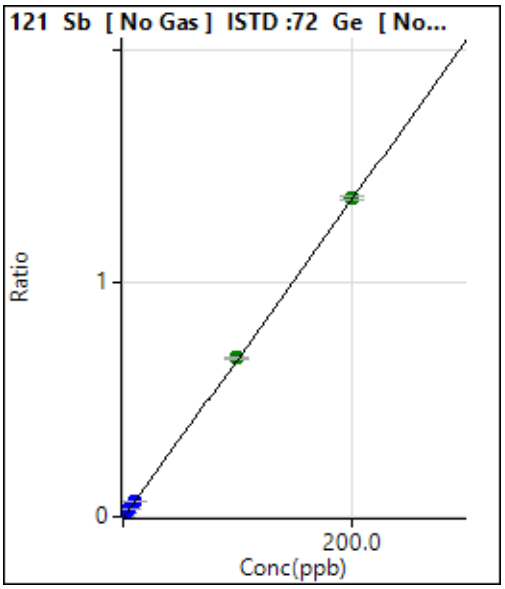
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	620.02	0.0002	P	13.8	
2	☐	2.000	1.772	23631.58	0.0079	P	1.6	-11.4
3	☐	5.000	4.488	60097.76	0.0197	P	1.5	-10.2
4	☐	10.000	9.112	118585.60	0.0399	P	1.4	-8.9
5	☐	100.000	98.748	1267803.65	0.4299	A	1.0	-1.3
6	☐	200.000	200.685	2495062.31	0.8734	A	0.6	0.3

y = 0.0044 * x + 2.0995E-004
R = 1.0000
DL = 0.02002 ppb
BEC = 0.04825 ppb

Weight: <None>
Min Conc: <None>

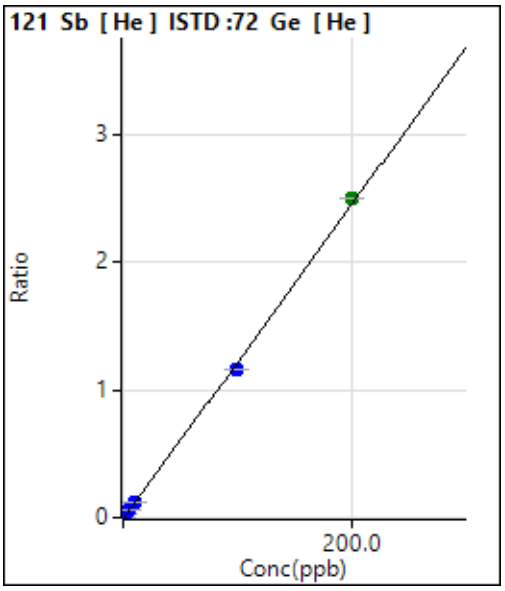


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	330.01	0.0001	P	23.0	
2	☐	2.000	1.884	33539.77	0.0130	P	1.8	-5.8
3	☐	5.000	4.718	84521.41	0.0323	P	2.0	-5.6
4	☐	10.000	9.315	167593.66	0.0636	P	0.5	-6.8
5	☐	100.000	99.676	1746633.41	0.6797	A	1.1	-0.3
6	☐	200.000	200.204	3444792.14	1.3651	A	1.8	0.1

y = 0.0068 * x + 1.2795E-004
R = 1.0000
DL = 0.01296 ppb
BEC = 0.01877 ppb

Weight: <None>
Min Conc: <None>

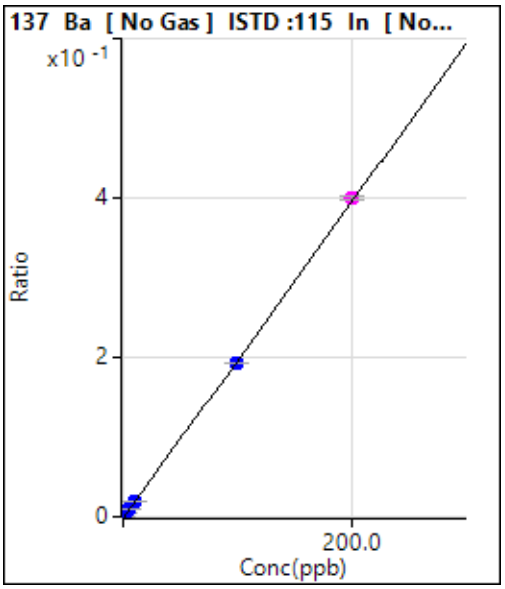
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	203.34	0.0003	P	18.1	
2	☐	2.000	1.838	15339.20	0.0229	P	2.5	-8.1
3	☐	5.000	4.654	38306.13	0.0576	P	1.8	-6.9
4	☐	10.000	9.311	77015.54	0.1149	P	1.2	-6.9
5	☐	100.000	93.974	756309.05	1.1569	P	0.4	-6.0
6	☐	200.000	203.058	1610764.14	2.4995	A	0.3	1.5

y = 0.0123 * x + 3.0701E-004
R = 0.9994
DL = 0.01352 ppb
BEC = 0.02494 ppb

Weight: <None>
Min Conc: <None>

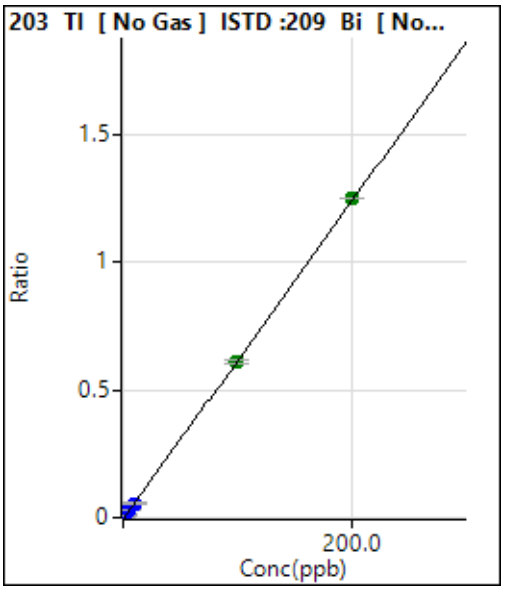


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	193.34	0.0001	P	22.1	
2	☐	2.000	1.938	11668.76	0.0039	P	4.2	-3.1
3	☐	5.000	4.601	27997.14	0.0092	P	2.0	-8.0
4	☐	10.000	9.841	58297.66	0.0196	P	0.7	-1.6
5	☐	100.000	96.910	567310.93	0.1924	P	0.6	-3.1
6	☐	200.000	201.564	1142921.54	0.4001	M	0.8	0.8

y = 0.0020 * x + 6.5549E-005
R = 0.9998
DL = 0.0219 ppb
BEC = 0.03303 ppb

Weight: <None>
Min Conc: <None>

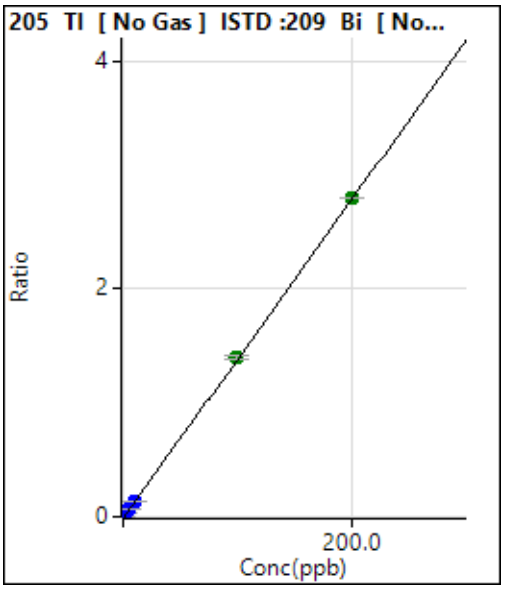
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	23.33	0.0000	P	23.5	
2	☐	2.000	1.797	28502.90	0.0112	P	4.1	-10.1
3	☐	5.000	4.481	72168.15	0.0278	P	1.0	-10.4
4	☐	10.000	9.071	145143.00	0.0564	P	0.8	-9.3
5	☐	100.000	98.227	1551218.73	0.6102	A	2.5	-1.8
6	☐	200.000	200.948	3079439.22	1.2483	A	0.4	0.5

y = 0.0062 * x + 9.2028E-006
R = 0.9999
DL = 0.001043 ppb
BEC = 0.001481 ppb

Weight: <None>
Min Conc: <None>

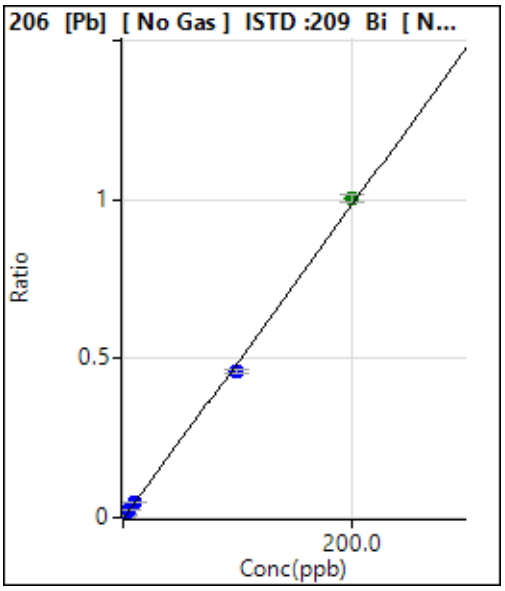


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	36.67	0.0000	P	15.2	
2	☐	2.000	1.897	67643.11	0.0265	P	0.9	-5.2
3	☐	5.000	4.691	169875.48	0.0656	P	3.2	-6.2
4	☐	10.000	9.481	341216.75	0.1325	P	1.3	-5.2
5	☐	100.000	99.880	3547952.13	1.3956	A	2.1	-0.1
6	☐	200.000	200.095	6896809.69	2.7958	A	0.3	0.0

y = 0.0140 * x + 1.4480E-005
R = 1.0000
DL = 0.0004729 ppb
BEC = 0.001036 ppb

Weight: <None>
Min Conc: <None>

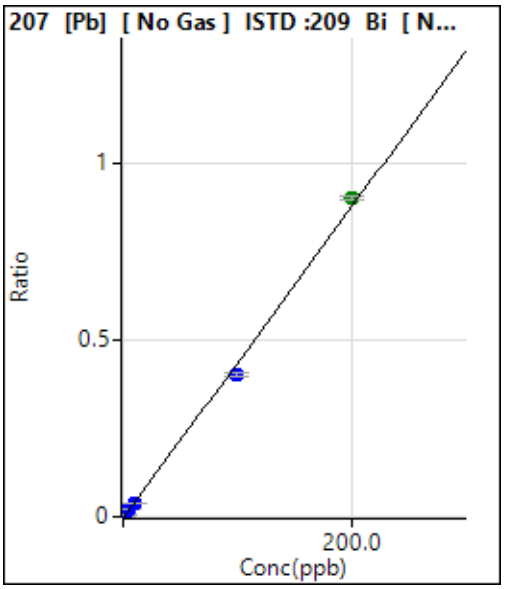
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	240.01	0.0001	P	15.5	
2	☐	2.000	1.825	23238.70	0.0091	P	2.8	-8.7
3	☐	5.000	4.643	59642.53	0.0230	P	3.4	-7.1
4	☐	10.000	9.317	118717.68	0.0461	P	0.8	-6.8
5	☐	100.000	93.120	1169142.59	0.4599	P	1.8	-6.9
6	☐	200.000	203.485	2478180.23	1.0048	A	2.3	1.7

y = 0.0049 * x + 9.4877E-005
R = 0.9992
DL = 0.008931 ppb
BEC = 0.01922 ppb

Weight: <None>
Min Conc: <None>

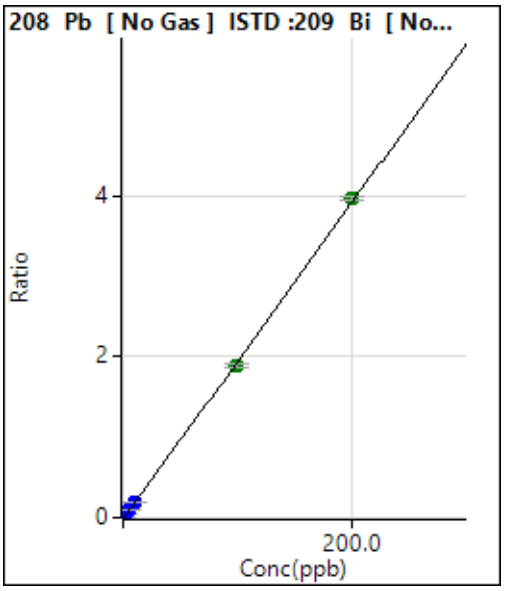


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	256.68	0.0001	P	29.5	
2	☐	2.000	1.771	20126.55	0.0079	P	0.8	-11.4
3	☐	5.000	4.500	51550.27	0.0199	P	1.4	-10.0
4	☐	10.000	8.962	101756.32	0.0395	P	0.1	-10.4
5	☐	100.000	90.842	1015754.00	0.3996	P	2.2	-9.2
6	☐	200.000	204.646	2220079.13	0.9000	A	1.0	2.3

y = 0.0044 * x + 1.0127E-004
R = 0.9986
DL = 0.02041 ppb
BEC = 0.02303 ppb

Weight: <None>
Min Conc: <None>

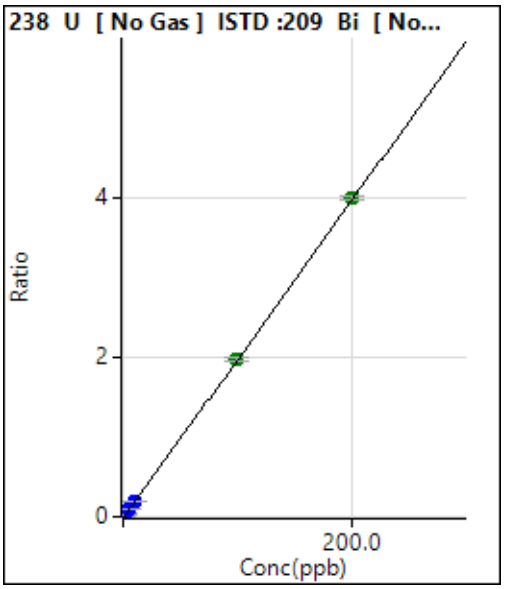
Calibration for 103_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1053.38	0.0004	P	7.8	
2	☐	2.000	1.842	93469.37	0.0366	P	0.9	-7.9
3	☐	5.000	4.622	236676.85	0.0913	P	2.1	-7.6
4	☐	10.000	9.245	469389.48	0.1822	P	0.8	-7.6
5	☐	100.000	96.310	4817135.30	1.8948	A	1.8	-3.7
6	☐	200.000	201.894	9796295.74	3.9715	A	1.2	0.9

y = 0.0197 * x + 4.1620E-004
R = 0.9998
DL = 0.004939 ppb
BEC = 0.02116 ppb

Weight: <None>
Min Conc: <None>

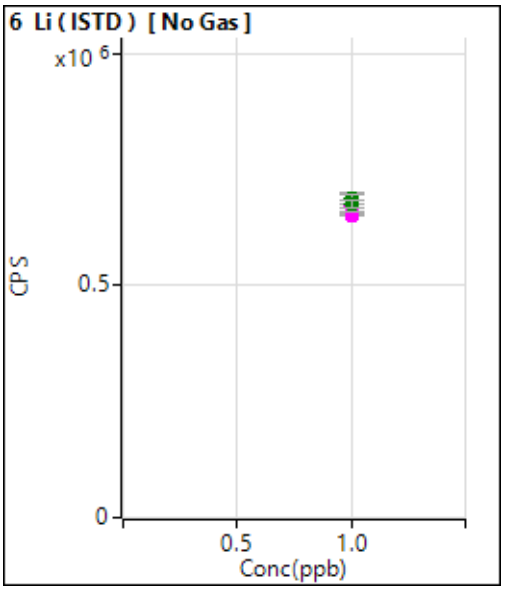


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10.00	0.0000	P	100.7	
2	☐	2.000	1.812	92165.41	0.0361	P	1.0	-9.4
3	☐	5.000	4.573	236231.41	0.0912	P	2.5	-8.5
4	☐	10.000	9.216	473117.51	0.1837	P	1.5	-7.8
5	☐	100.000	98.774	5005619.51	1.9688	A	2.0	-1.2
6	☐	200.000	200.665	9866681.73	3.9997	A	1.4	0.3

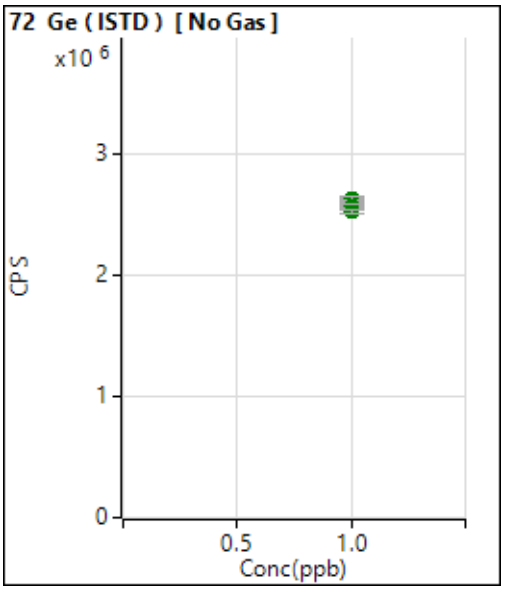
y = 0.0199 * x + 3.9499E-006
R = 1.0000
DL = 0.0005984 ppb
BEC = 0.0001982 ppb

Weight: <None>
Min Conc: <None>

Calibration for 103_ICV.d

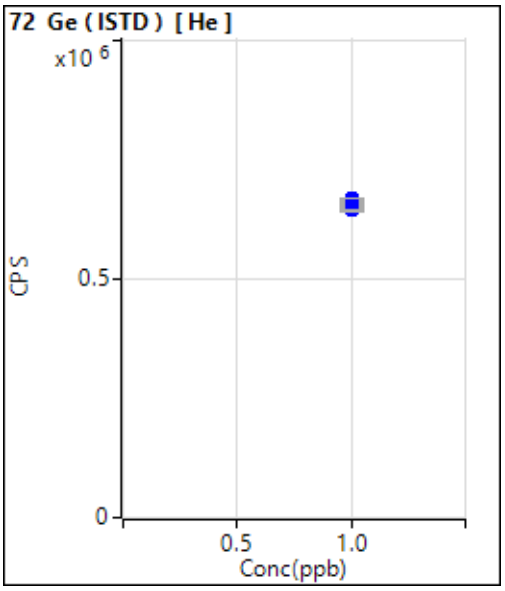


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		671767.35		M	3.7	
2	☐	1.000		651735.31		M	1.0	
3	☐	1.000		687708.92		M	3.1	
4	☐	1.000		658361.09		M	0.5	
5	☐	1.000		686013.79		A	3.2	
6	☐	1.000		674203.48		A	2.7	

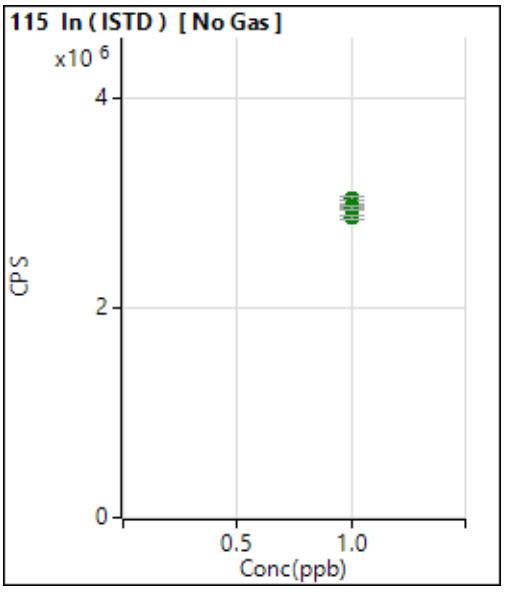


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2580172.51		A	0.8	
2	☐	1.000		2586028.40		A	1.2	
3	☐	1.000		2617485.38		A	1.8	
4	☐	1.000		2633650.38		A	0.6	
5	☐	1.000		2569882.98		A	1.6	
6	☐	1.000		2523938.24		A	1.5	

Calibration for 103_ICV.d

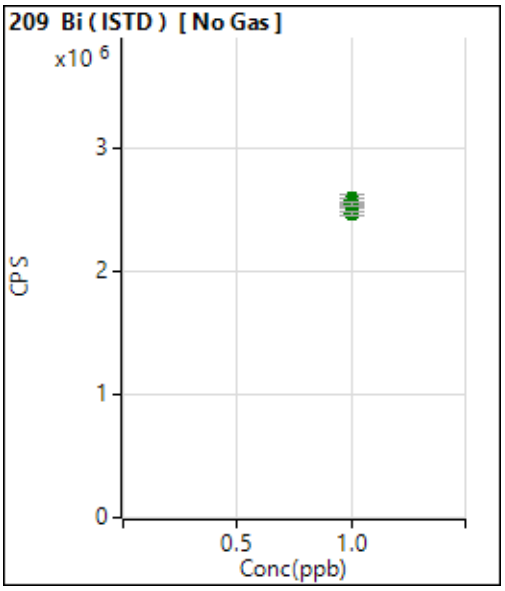


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		661835.38		P	0.8	
2	☐	1.000		669000.64		P	0.7	
3	☐	1.000		665203.95		P	0.4	
4	☐	1.000		670266.13		P	0.1	
5	☐	1.000		653737.96		P	0.6	
6	☐	1.000		644436.60		P	0.4	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2951822.21		A	0.5	
2	☐	1.000		2983452.97		A	0.9	
3	☐	1.000		3044844.52		A	1.0	
4	☐	1.000		2975388.92		A	1.2	
5	☐	1.000		2948998.62		A	1.2	
6	☐	1.000		2856644.92		A	1.2	

Calibration for 103_ICV.d



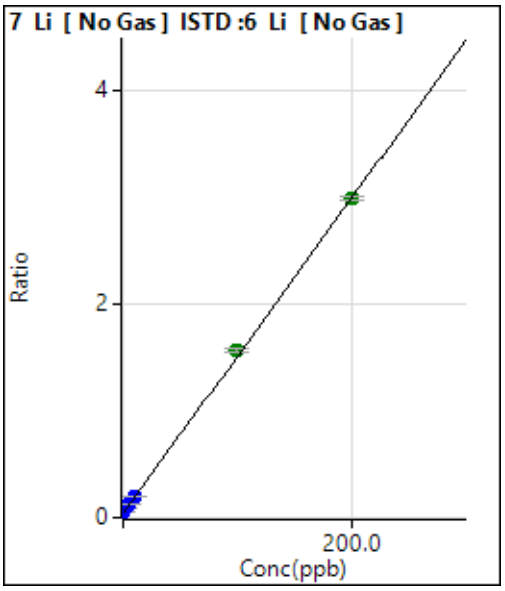
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2530810.59		A	1.2	
2	☐	1.000		2551148.45		A	0.6	
3	☐	1.000		2592585.75		A	2.8	
4	☐	1.000		2575627.88		A	1.1	
5	☐	1.000		2542623.40		A	1.1	
6	☐	1.000		2466889.65		A	1.5	

Calibration for 022_ICV.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\083022A.b\
Analysis File: 083022A.batch.bin
DA Date-Time: 08/30/2022 22:08:01
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	015CALB.d	CAL BLK	08/30/2022 12:27:53
2	016CALS.d	2/10/200	08/30/2022 12:30:03
3	017CALS.d	5/25/500	08/30/2022 12:32:10
4	018CALS.d	10/50/100	08/30/2022 12:34:18
5	019CALS.d	100/500/10K	08/30/2022 12:36:25
6	020CALS.d	200/1000/20K	08/30/2022 12:38:24

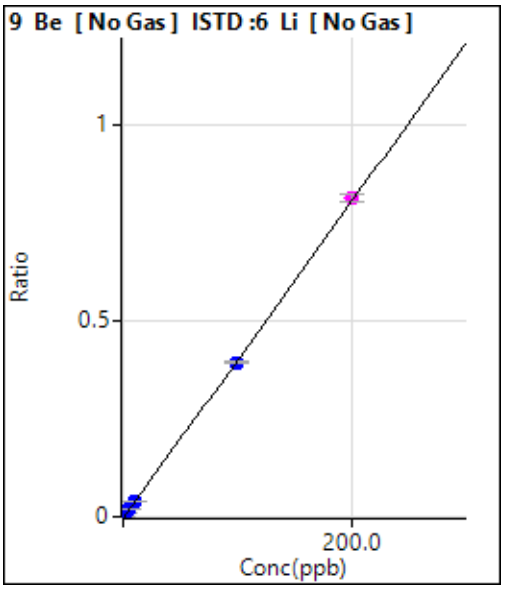
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	53561.52	0.0550	P	1.8	
2	☐	2.000	1.975	80886.00	0.0842	P	1.1	-1.3
3	☐	5.000	4.778	121134.68	0.1255	P	0.2	-4.4
4	☐	10.000	9.696	190666.10	0.1982	P	1.4	-3.0
5	☐	100.000	102.373	1509914.20	1.5665	A	1.4	2.4
6	☐	200.000	198.834	2911860.16	2.9908	A	1.3	-0.6

y = 0.0148 * x + 0.0550
R = 0.9999
DL = 0.2044 ppb
BEC = 3.725 ppb

Weight: <None>
Min Conc: <None>

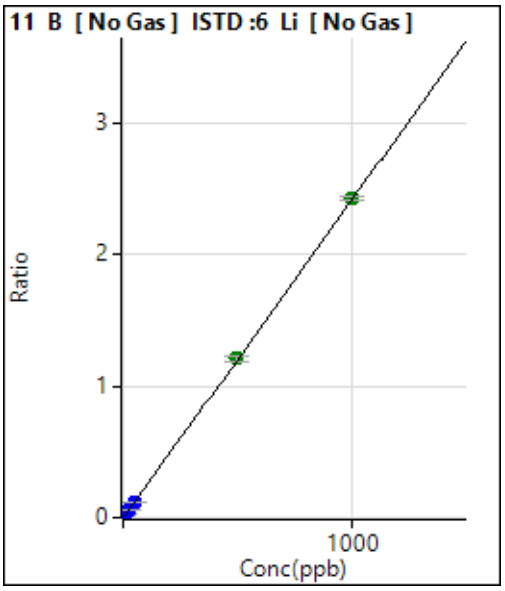


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	23.33	0.0000	P	64.6	
2	☐	2.000	1.922	7482.04	0.0078	P	1.7	-3.9
3	☐	5.000	4.904	19126.40	0.0198	P	1.0	-1.9
4	☐	10.000	9.751	37904.35	0.0394	P	1.9	-2.5
5	☐	100.000	97.562	379718.26	0.3940	P	1.3	-2.4
6	☐	200.000	201.235	791277.90	0.8126	M	2.1	0.6

y = 0.0040 * x + 2.3855E-005
R = 0.9999
DL = 0.01144 ppb
BEC = 0.005908 ppb

Weight: <None>
Min Conc: <None>

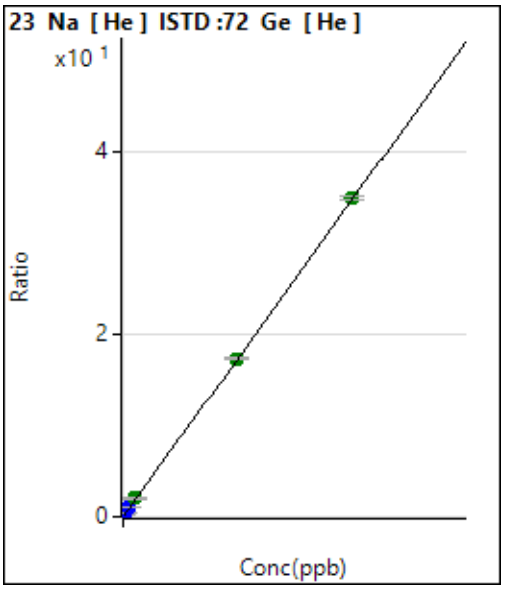
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7291.95	0.0075	P	4.3	
2	☐	10.000	9.270	28772.81	0.0299	P	0.4	-7.3
3	☐	25.000	23.193	61408.60	0.0636	P	1.4	-7.2
4	☐	50.000	47.550	117998.14	0.1226	P	0.5	-4.9
5	☐	500.000	498.263	1169905.94	1.2140	A	3.4	-0.3
6	☐	1000.000	1001.043	2367353.45	2.4314	A	0.7	0.1

y = 0.0024 * x + 0.0075
R = 1.0000
DL = 0.3985 ppb
BEC = 3.093 ppb

Weight: <None>
Min Conc: <None>

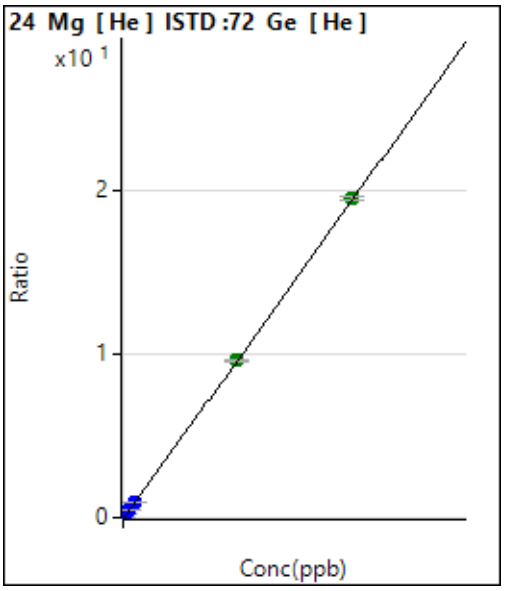


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	113949.08	0.1733	P	0.8	
2	☐	200.000	184.028	326572.06	0.4926	P	0.5	-8.0
3	☐	500.000	470.297	654026.40	0.9892	P	0.8	-5.9
4	☐	1000.000	1057.022	1327815.97	2.0072	A	2.6	5.7
5	☐	10000.00	9895.843	11455626.50	17.3420	A	0.7	-1.0
6	☐	20000.00	20050.13	22402012.17	34.9590	A	1.6	0.3

y = 0.0017 * x + 0.1733
R = 1.0000
DL = 2.318 ppb
BEC = 99.89 ppb

Weight: <None>
Min Conc: <None>

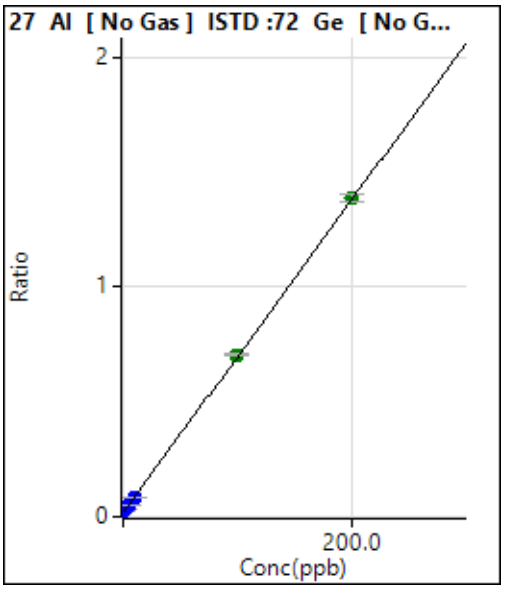
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	600.02	0.0009	P	8.5	
2	☐	200.000	182.986	118456.64	0.1787	P	2.0	-8.5
3	☐	500.000	469.109	301904.35	0.4566	P	0.4	-6.2
4	☐	1000.000	941.005	605420.87	0.9151	P	0.8	-5.9
5	☐	10000.00	9884.032	6343294.70	9.6030	A	0.9	-1.2
6	☐	20000.00	20061.87	12490203.14	19.4905	A	1.2	0.3

y = 9.7148E-004 * x + 9.1242E-004
R = 1.0000
DL = 0.2391 ppb
BEC = 0.9392 ppb

Weight: <None>
Min Conc: <None>

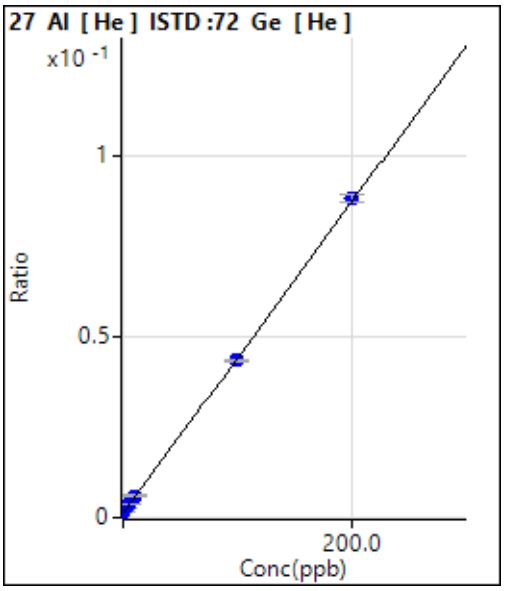


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	65705.01	0.0245	P	3.0	
2	☐	2.000	1.772	96554.98	0.0366	P	1.0	-11.4
3	☐	5.000	4.232	141345.75	0.0533	P	0.7	-15.4
4	☐	10.000	8.965	227274.27	0.0856	P	1.5	-10.4
5	☐	100.000	99.698	1842788.15	0.7033	A	0.9	-0.3
6	☐	200.000	200.224	3532640.26	1.3878	A	2.9	0.1

y = 0.0068 * x + 0.0245
R = 1.0000
DL = 0.3203 ppb
BEC = 3.6 ppb

Weight: <None>
Min Conc: <None>

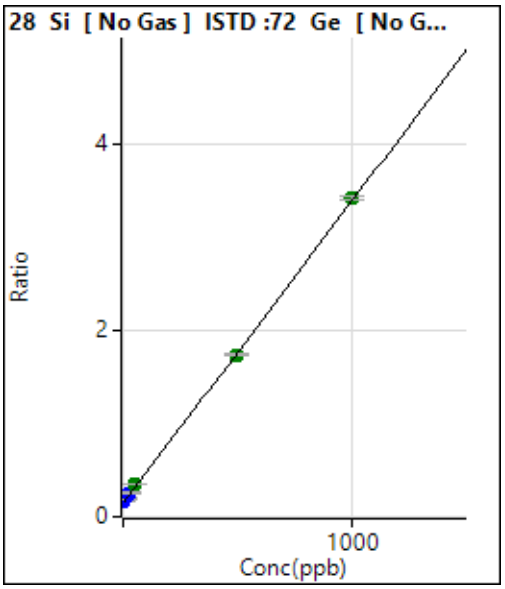
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1080.06	0.0016	P	11.4	
2	☐	2.000	2.085	1683.47	0.0025	P	6.5	4.2
3	☐	5.000	4.670	2413.59	0.0037	P	6.0	-6.6
4	☐	10.000	10.211	3990.65	0.0060	P	5.5	2.1
5	☐	100.000	97.254	28713.27	0.0435	P	1.1	-2.7
6	☐	200.000	201.370	56551.74	0.0882	P	2.0	0.7

y = 4.3003E-004 * x + 0.0016
R = 0.9999
DL = 1.309 ppb
BEC = 3.821 ppb

Weight: <None>
Min Conc: <None>

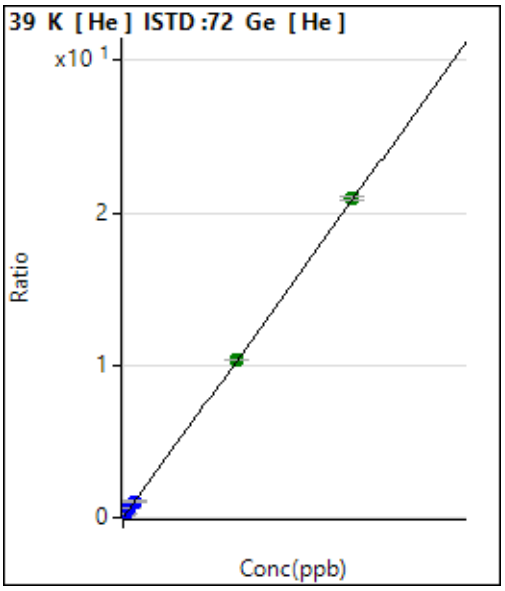


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	435912.31	0.1626	P	1.6	
2	☐	10.000	10.661	520595.15	0.1972	P	1.7	6.6
3	☐	25.000	28.003	671890.73	0.2535	P	5.0	12.0
4	☐	50.000	60.083	950302.98	0.3577	A	1.3	20.2
5	☐	500.000	487.226	4570351.08	1.7443	A	0.8	-2.6
6	☐	1000.000	1005.801	8727300.91	3.4279	A	1.8	0.6

y = 0.0032 * x + 0.1626
R = 0.9998
DL = 2.351 ppb
BEC = 50.09 ppb

Weight: <None>
Min Conc: <None>

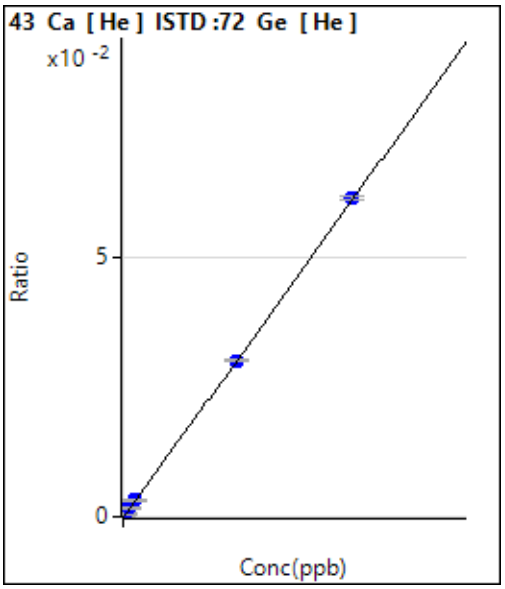
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	60894.31	0.0926	P	0.6	
2	☐	200.000	180.937	186070.70	0.2807	P	1.0	-9.5
3	☐	500.000	467.465	382437.80	0.5785	P	0.9	-6.5
4	☐	1000.000	938.295	706445.56	1.0678	P	1.0	-6.2
5	☐	10000.00	9875.822	6841390.11	10.3565	A	0.4	-1.2
6	☐	20000.00	20066.17	13423836.05	20.9473	A	1.3	0.3

y = 0.0010 * x + 0.0926
R = 1.0000
DL = 1.553 ppb
BEC = 89.11 ppb

Weight: <None>
Min Conc: <None>

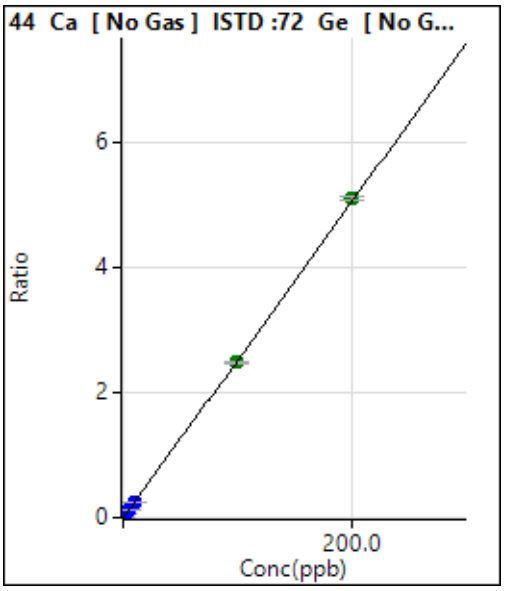


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	33.33	0.0001	P	17.0	
2	☐	200.000	177.243	393.34	0.0006	P	14.3	-11.4
3	☐	500.000	535.441	1116.73	0.0017	P	12.2	7.1
4	☐	1000.000	1032.464	2123.54	0.0032	P	7.0	3.2
5	☐	10000.00	9828.587	19904.65	0.0301	P	1.9	-1.7
6	☐	20000.00	20083.42	39430.08	0.0615	P	0.7	0.4

y = 3.0608E-006 * x + 5.0683E-005
R = 0.9999
DL = 8.455 ppb
BEC = 16.56 ppb

Weight: <None>
Min Conc: <None>

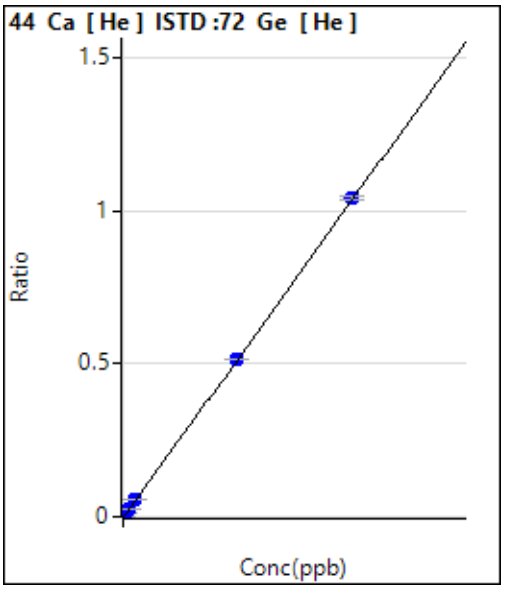
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	40362.69	0.0151	P	2.0	
2	☐	2.000	1.860	163829.87	0.0621	P	0.4	-7.0
3	☐	5.000	4.605	348335.76	0.1314	P	1.3	-7.9
4	☐	10.000	9.325	665941.87	0.2507	P	1.5	-6.8
5	☐	100.000	97.532	6496634.70	2.4795	A	0.8	-2.5
6	☐	200.000	201.279	12987542.72	5.1011	A	1.3	0.6

y = 0.0253 * x + 0.0151
R = 0.9999
DL = 0.03524 ppb
BEC = 0.5959 ppb

Weight: <None>
Min Conc: <None>

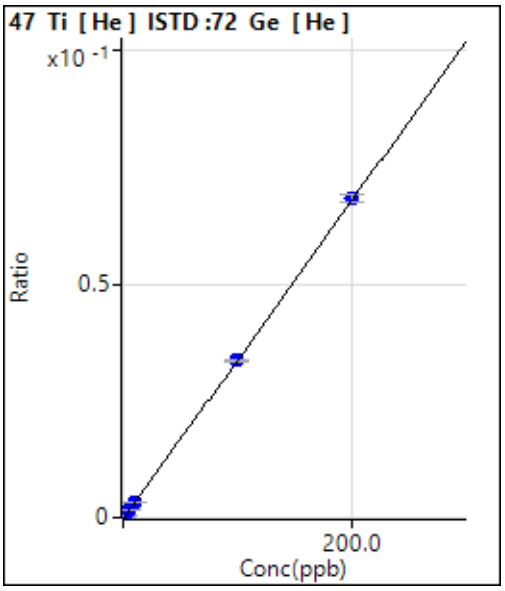


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	866.71	0.0013	P	8.8	
2	☐	200.000	201.636	7802.35	0.0118	P	3.4	0.8
3	☐	500.000	497.077	17905.26	0.0271	P	3.5	-0.6
4	☐	1000.000	1009.379	35482.79	0.0536	P	0.5	0.9
5	☐	10000.00	9863.488	338542.38	0.5125	P	0.5	-1.4
6	☐	20000.00	20067.84	667377.31	1.0414	P	0.7	0.3

y = 5.1826E-005 * x + 0.0013
R = 1.0000
DL = 6.732 ppb
BEC = 25.44 ppb

Weight: <None>
Min Conc: <None>

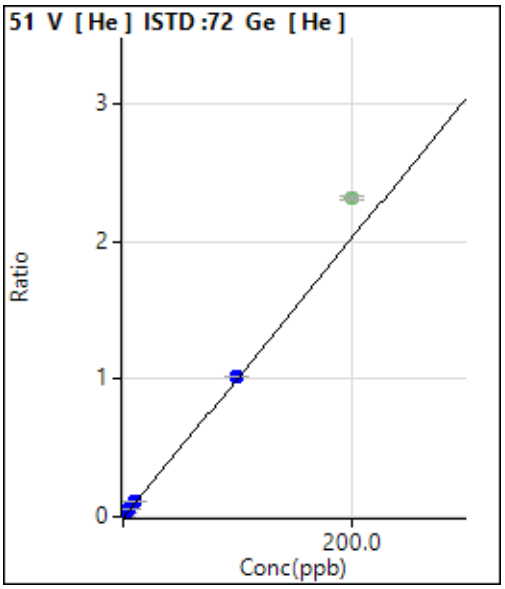
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3.33	0.0000	P	173.2	
2	☐	2.000	1.726	393.34	0.0006	P	5.5	-13.7
3	☐	5.000	5.163	1166.74	0.0018	P	8.9	3.3
4	☐	10.000	9.787	2210.21	0.0033	P	3.0	-2.1
5	☐	100.000	98.864	22264.91	0.0337	P	1.4	-1.1
6	☐	200.000	200.577	43820.08	0.0684	P	2.1	0.3

y = 3.4089E-004 * x + 5.0669E-006
R = 1.0000
DL = 0.07723 ppb
BEC = 0.01486 ppb

Weight: <None>
Min Conc: <None>

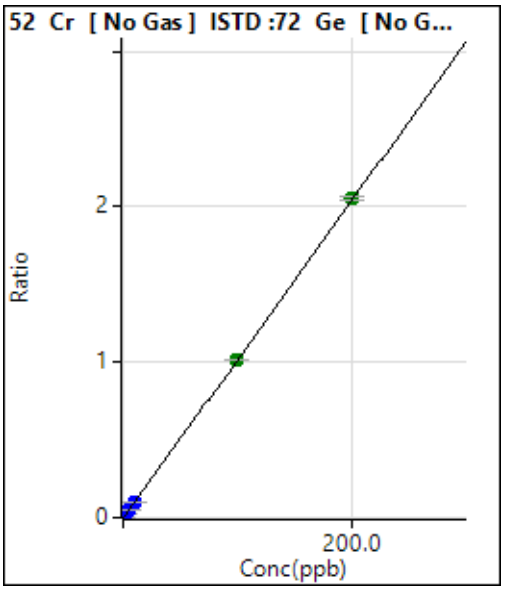


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2029.05	0.0031	P	3.2	
2	☐	2.000	1.944	15133.94	0.0228	P	0.4	-2.8
3	☐	5.000	5.008	35657.36	0.0539	P	0.3	0.2
4	☐	10.000	10.121	70032.30	0.1059	P	0.6	1.2
5	☐	100.000	99.989	672651.52	1.0183	P	0.5	0.0
6	☑	200.000		1484744.73	2.3167	A	0.7	

y = 0.0102 * x + 0.0031
R = 1.0000
DL = 0.02942 ppb
BEC = 0.304 ppb

Weight: <None>
Min Conc: <None>

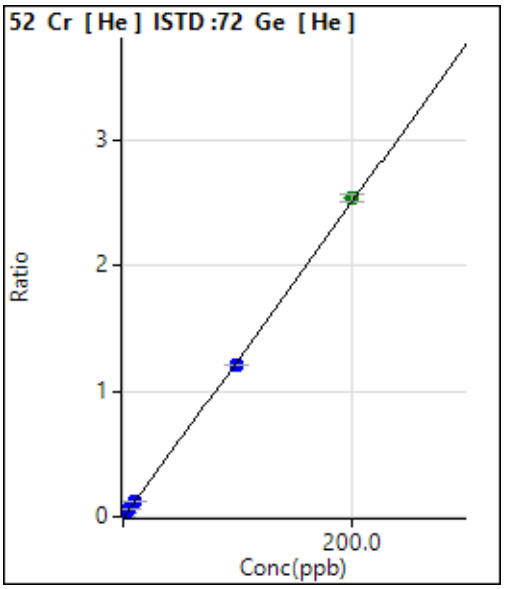
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16219.88	0.0060	P	1.4	
2	☐	2.000	1.909	67472.63	0.0256	P	0.3	-4.6
3	☐	5.000	4.782	145577.58	0.0549	P	1.3	-4.4
4	☐	10.000	9.607	276887.80	0.1042	P	1.7	-3.9
5	☐	100.000	99.053	2668238.09	1.0183	A	0.1	-0.9
6	☐	200.000	200.499	5232630.45	2.0551	A	1.5	0.2

y = 0.0102 * x + 0.0060
R = 1.0000
DL = 0.02465 ppb
BEC = 0.592 ppb

Weight: <None>
Min Conc: <None>

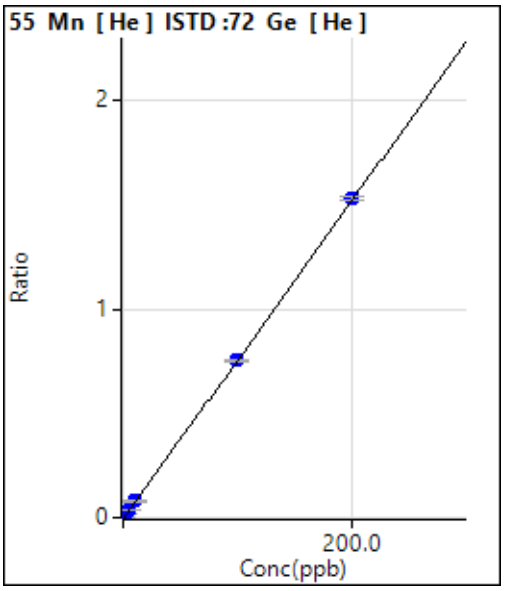


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	670.03	0.0010	P	21.2	
2	☐	2.000	1.929	16777.17	0.0253	P	1.0	-3.5
3	☐	5.000	4.860	41118.73	0.0622	P	1.5	-2.8
4	☐	10.000	10.147	85180.75	0.1288	P	1.2	1.5
5	☐	100.000	96.189	800511.55	1.2118	P	0.4	-3.8
6	☐	200.000	201.902	1629259.56	2.5426	A	1.9	1.0

y = 0.0126 * x + 0.0010
R = 0.9997
DL = 0.05144 ppb
BEC = 0.08099 ppb

Weight: <None>
Min Conc: <None>

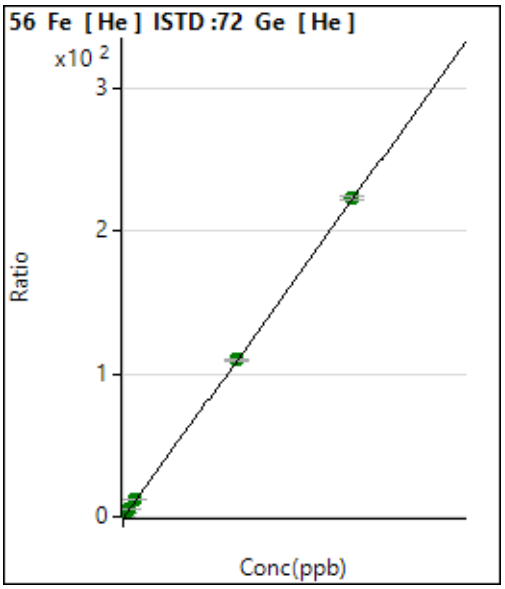
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	523.35	0.0008	P	6.2	
2	☐	2.000	2.043	10854.48	0.0164	P	1.6	2.1
3	☐	5.000	4.989	25677.81	0.0388	P	0.5	-0.2
4	☐	10.000	10.184	51911.96	0.0785	P	1.6	1.8
5	☐	100.000	98.551	496895.85	0.7522	P	0.8	-1.4
6	☐	200.000	200.715	981274.15	1.5312	P	1.1	0.4

y = 0.0076 * x + 7.9600E-004
R = 1.0000
DL = 0.01926 ppb
BEC = 0.1044 ppb

Weight: <None>
Min Conc: <None>

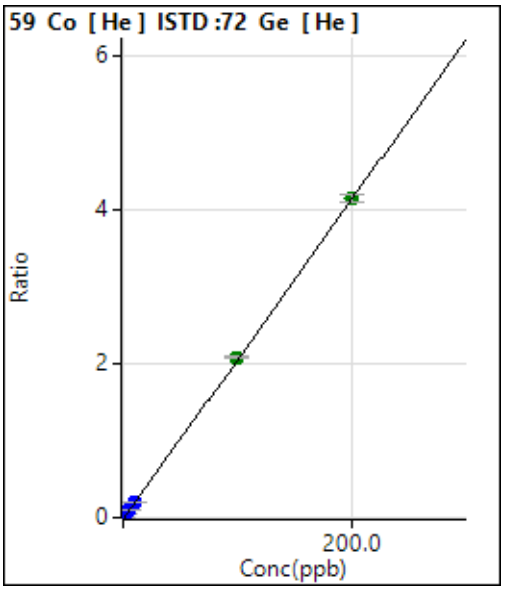


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10230.64	0.0156	P	4.6	
2	☐	200.000	210.687	1563729.14	2.3587	A	1.1	5.3
3	☐	500.000	520.536	3837772.24	5.8046	A	1.1	4.1
4	☐	1000.000	1033.233	7613077.60	11.5064	A	0.6	3.3
5	☐	10000.00	9879.855	72588030.58	109.892	A	1.2	-1.2
6	☐	20000.00	20057.79	142964107.8	223.083	A	0.9	0.3

y = 0.0111 * x + 0.0156
R = 1.0000
DL = 0.1935 ppb
BEC = 1.399 ppb

Weight: <None>
Min Conc: <None>

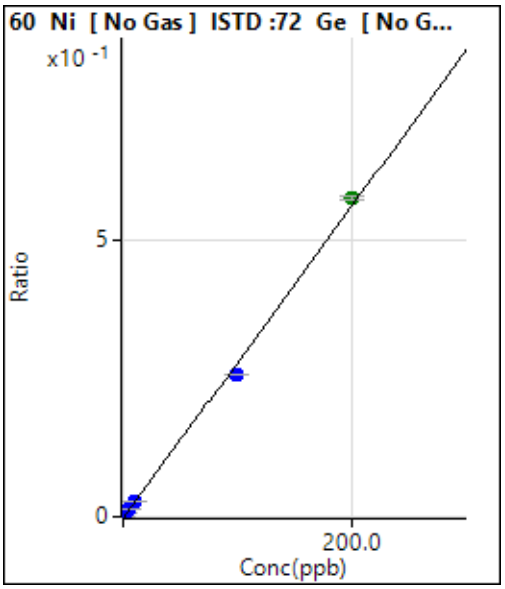
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	30.00	0.0000	P	33.7	
2	☐	2.000	1.888	26041.80	0.0393	P	0.6	-5.6
3	☐	5.000	4.775	65637.85	0.0993	P	1.7	-4.5
4	☐	10.000	9.631	132455.98	0.2002	P	0.3	-3.7
5	☐	100.000	100.465	1379090.45	2.0878	A	0.6	0.5
6	☐	200.000	199.793	2660178.66	4.1518	A	3.0	-0.1

y = 0.0208 * x + 4.5665E-005
R = 1.0000
DL = 0.00222 ppb
BEC = 0.002197 ppb

Weight: <None>
Min Conc: <None>

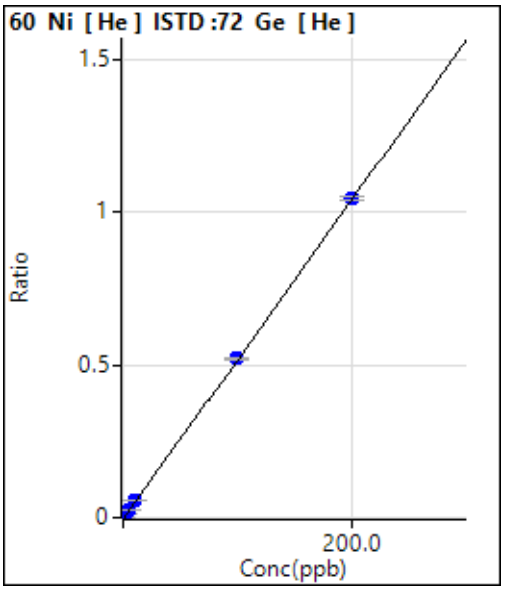


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	556.69	0.0002	P	21.4	
2	☐	2.000	1.836	14234.32	0.0054	P	1.8	-8.2
3	☐	5.000	4.722	35890.83	0.0135	P	1.3	-5.6
4	☐	10.000	9.487	71725.08	0.0270	P	1.8	-5.1
5	☐	100.000	91.407	676830.25	0.2583	P	0.5	-8.6
6	☐	200.000	204.331	1469508.52	0.5772	A	1.2	2.2

y = 0.0028 * x + 2.0762E-004
R = 0.9987
DL = 0.04719 ppb
BEC = 0.07353 ppb

Weight: <None>
Min Conc: <None>

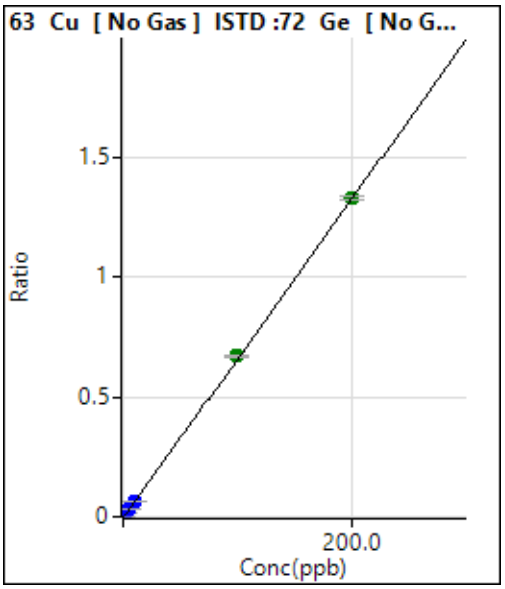
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	276.68	0.0004	P	13.4	
2	☐	2.000	2.005	7215.36	0.0109	P	2.5	0.3
3	☐	5.000	5.132	17978.73	0.0272	P	1.7	2.6
4	☐	10.000	10.480	36449.14	0.0551	P	0.9	4.8
5	☐	100.000	99.812	344224.76	0.5211	P	1.6	-0.2
6	☐	200.000	200.067	669120.80	1.0442	P	1.3	0.0

y = 0.0052 * x + 4.2072E-004
R = 1.0000
DL = 0.03246 ppb
BEC = 0.08064 ppb

Weight: <None>
Min Conc: <None>

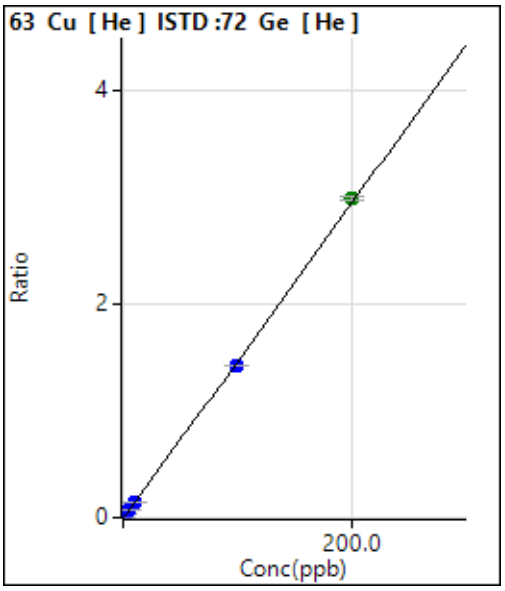


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2386.93	0.0009	P	8.0	
2	☑	2.000		34901.80	0.0132	P	0.1	
3	☐	5.000	4.798	87107.98	0.0329	P	1.1	-4.0
4	☐	10.000	9.687	173857.29	0.0654	P	1.2	-3.1
5	☐	100.000	100.447	1756140.65	0.6702	A	0.4	0.4
6	☐	200.000	199.797	3392010.36	1.3323	A	1.0	-0.1

y = 0.0067 * x + 8.9062E-004
R = 1.0000
DL = 0.03225 ppb
BEC = 0.1337 ppb

Weight: <None>
Min Conc: <None>

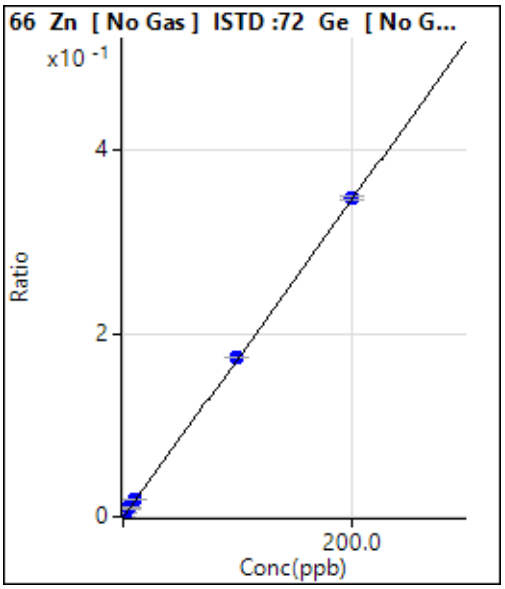
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1343.43	0.0020	P	9.7	
2	☑	2.000		20181.98	0.0304	P	0.9	
3	☐	5.000	4.887	49072.12	0.0742	P	1.2	-2.3
4	☐	10.000	10.012	99197.14	0.1499	P	0.9	0.1
5	☐	100.000	95.959	937624.31	1.4195	P	0.8	-4.0
6	☐	200.000	202.023	1914011.95	2.9861	A	1.5	1.0

y = 0.0148 * x + 0.0020
R = 0.9997
DL = 0.04043 ppb
BEC = 0.1383 ppb

Weight: <None>
Min Conc: <None>

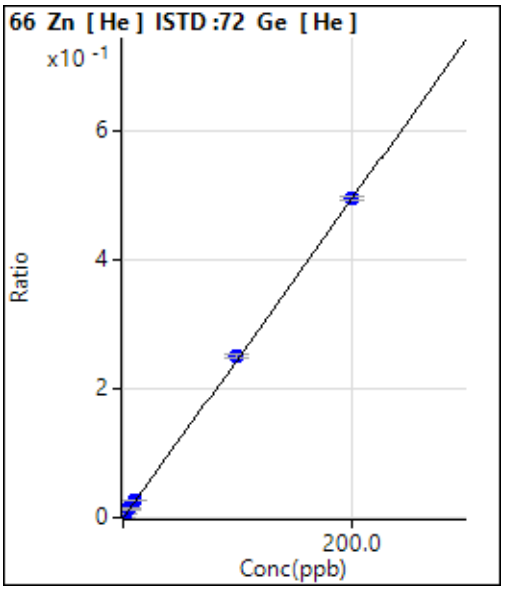


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2380.25	0.0009	P	2.9	
2	☐	2.000	1.820	10667.74	0.0040	P	3.3	-9.0
3	☐	5.000	5.009	25350.67	0.0096	P	3.3	0.2
4	☐	10.000	10.043	48583.76	0.0183	P	0.8	0.4
5	☐	100.000	99.483	453883.59	0.1732	P	0.3	-0.5
6	☐	200.000	200.258	885518.92	0.3478	P	0.9	0.1

y = 0.0017 * x + 8.8780E-004
R = 1.0000
DL = 0.04437 ppb
BEC = 0.5125 ppb

Weight: <None>
Min Conc: <None>

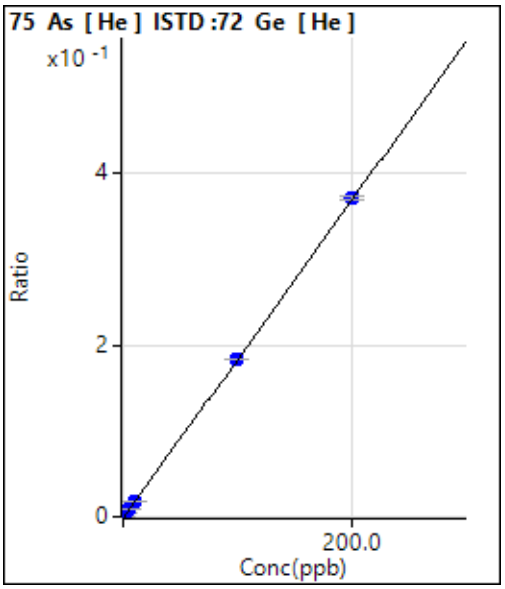
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	860.04	0.0013	P	9.2	
2	☐	2.000	1.714	3677.23	0.0055	P	4.5	-14.3
3	☐	5.000	4.898	8873.08	0.0134	P	1.9	-2.0
4	☐	10.000	9.986	17204.47	0.0260	P	1.6	-0.1
5	☐	100.000	100.860	165625.06	0.2507	P	1.7	0.9
6	☐	200.000	199.576	317135.60	0.4949	P	0.8	-0.2

y = 0.0025 * x + 0.0013
R = 1.0000
DL = 0.1454 ppb
BEC = 0.529 ppb

Weight: <None>
Min Conc: <None>

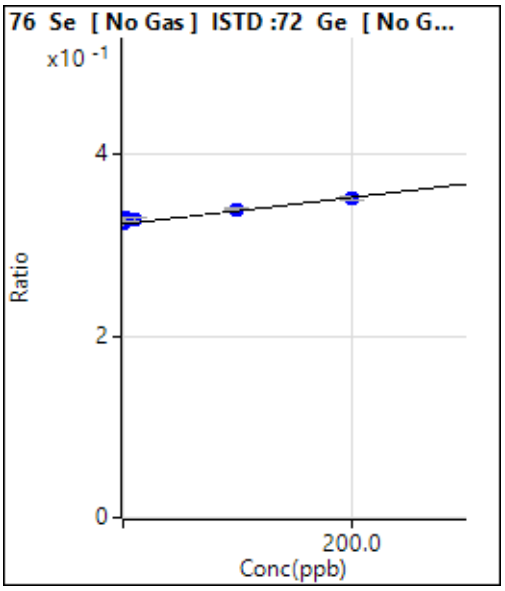


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	106.67	0.0002	P	37.2	
2	☐	2.000	1.982	2539.14	0.0038	P	4.8	-0.9
3	☐	5.000	4.949	6160.32	0.0093	P	0.8	-1.0
4	☐	10.000	9.960	12301.22	0.0186	P	1.5	-0.4
5	☐	100.000	98.916	120996.28	0.1832	P	0.5	-1.1
6	☐	200.000	200.545	237884.88	0.3712	P	0.8	0.3

y = 0.0019 * x + 1.6238E-004
R = 1.0000
DL = 0.09797 ppb
BEC = 0.08777 ppb

Weight: <None>
Min Conc: <None>

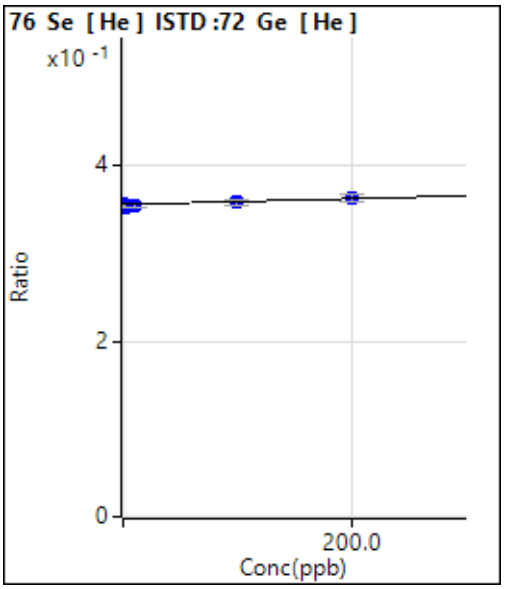
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	867100.43	0.3234	P	0.5	
2	☐	2.000	47.051	872261.44	0.3304	P	1.4	2252.5
3	☐	5.000	37.649	872124.41	0.3290	P	0.5	653.0
4	☐	10.000	38.079	874291.47	0.3291	P	1.2	280.8
5	☐	100.000	110.723	890657.64	0.3399	P	0.3	10.7
6	☐	200.000	191.968	896215.40	0.3520	P	1.3	-4.0

y = 1.4893E-004 * x + 0.3234
R = 0.9764
DL = 35.83 ppb
BEC = 2172 ppb

Weight: <None>
Min Conc: <None>

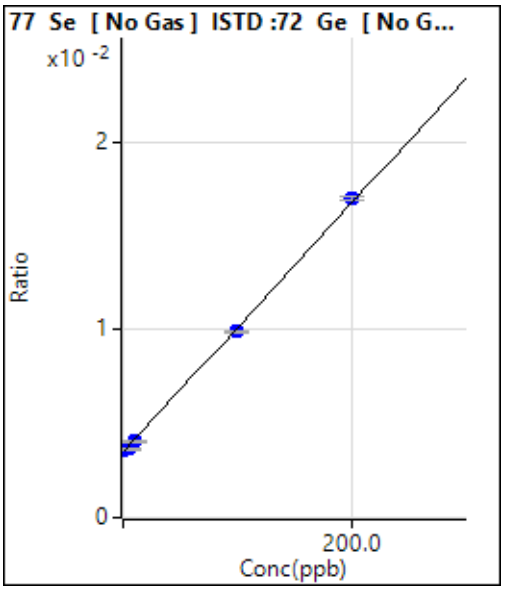


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	234088.77	0.3560	P	0.6	
2	☐	2.000	-87.739	234090.09	0.3531	P	1.2	-4487.
3	☐	5.000	-46.731	234357.57	0.3545	P	0.4	-1034.
4	☐	10.000	-31.416	234853.93	0.3550	P	0.8	-414.2
5	☐	100.000	64.213	236598.69	0.3582	P	1.4	-35.8
6	☐	200.000	222.155	232908.09	0.3635	P	2.1	11.1

y = 3.3483E-005 * x + 0.3560
R = 0.9626
DL = 182.9 ppb
BEC = 1.063E+04 ppb

Weight: <None>
Min Conc: <None>

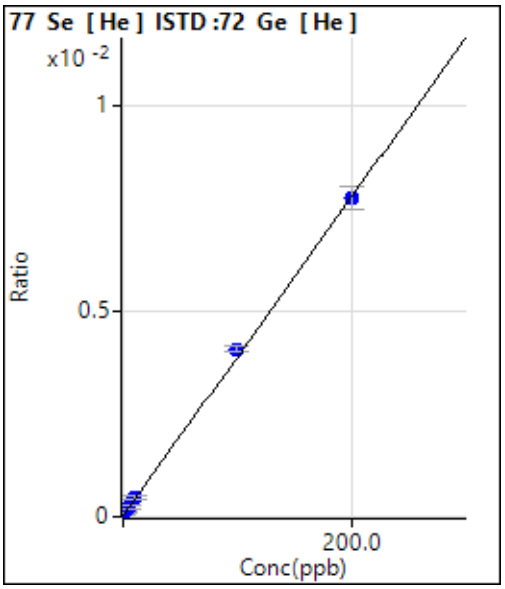
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	9657.00	0.0036	P	2.2	
2	☐	2.000	1.935	9847.07	0.0037	P	1.7	-3.3
3	☐	5.000	0.952	9713.67	0.0037	P	3.5	-81.0
4	☐	10.000	7.132	10824.51	0.0041	P	1.4	-28.7
5	☐	100.000	95.388	26002.05	0.0099	P	1.0	-4.6
6	☐	200.000	202.551	43350.12	0.0170	P	0.7	1.3

y = 6.6271E-005 * x + 0.0036
R = 0.9995
DL = 3.587 ppb
BEC = 54.35 ppb

Weight: <None>
Min Conc: <None>

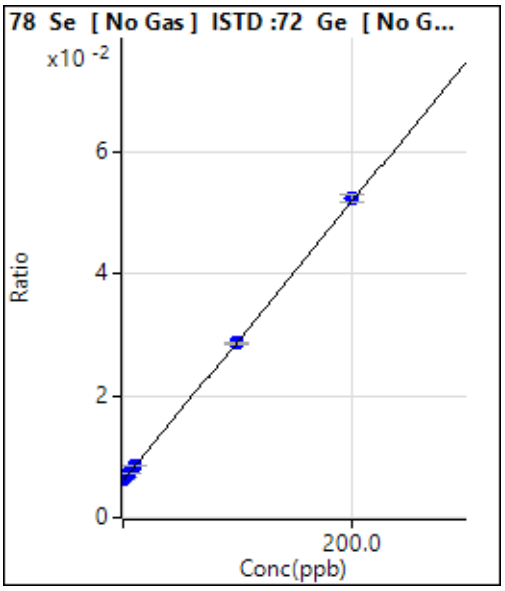


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	40.00	0.0001	P	90.1	
2	☐	2.000	1.539	80.00	0.0001	P	44.9	-23.0
3	☐	5.000	4.544	156.67	0.0002	P	29.0	-9.1
4	☐	10.000	10.771	316.68	0.0005	P	18.9	7.7
5	☐	100.000	103.476	2690.31	0.0041	P	3.7	3.5
6	☐	200.000	198.239	4960.99	0.0077	P	6.9	-0.9

y = 3.8765E-005 * x + 6.0915E-005
R = 0.9998
DL = 4.245 ppb
BEC = 1.571 ppb

Weight: <None>
Min Conc: <None>

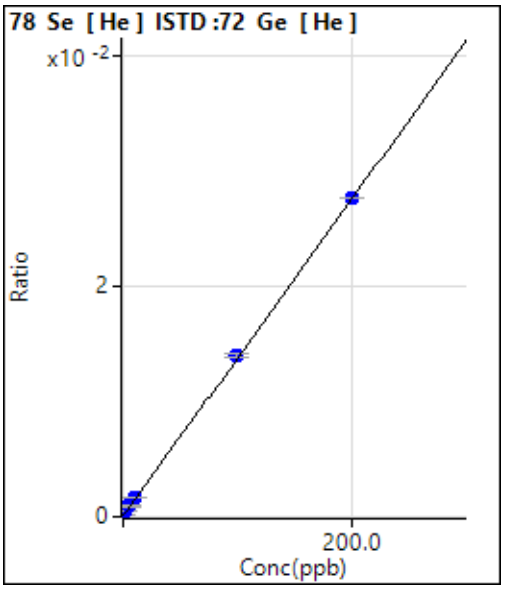
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16994.29	0.0063	P	4.0	
2	☐	2.000	1.419	17591.69	0.0067	P	3.0	-29.1
3	☐	5.000	4.091	19287.34	0.0073	P	1.9	-18.2
4	☐	10.000	9.588	22676.05	0.0085	P	0.3	-4.1
5	☐	100.000	97.245	74944.65	0.0286	P	0.6	-2.8
6	☐	200.000	201.427	133530.89	0.0525	P	2.3	0.7

y = 2.2894E-004 * x + 0.0063
R = 0.9999
DL = 3.364 ppb
BEC = 27.69 ppb

Weight: <None>
Min Conc: <None>

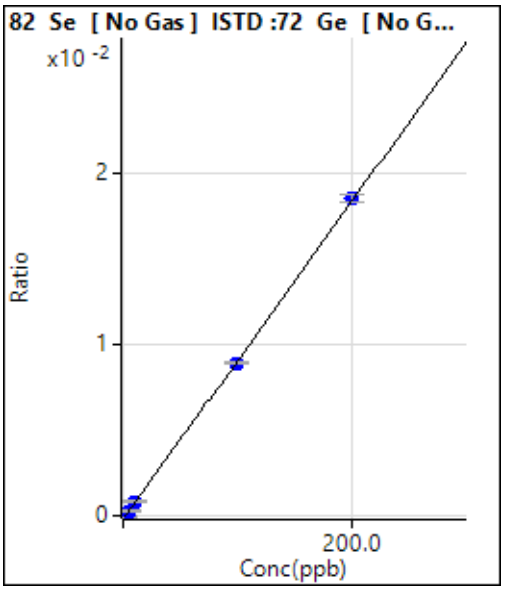


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	127.33	0.0002	P	11.4	
2	☐	2.000	2.055	316.00	0.0005	P	10.8	2.8
3	☐	5.000	5.334	613.35	0.0009	P	3.7	6.7
4	☐	10.000	10.436	1078.71	0.0016	P	2.5	4.4
5	☐	100.000	100.293	9245.19	0.0140	P	1.5	0.3
6	☐	200.000	199.823	17749.67	0.0277	P	0.1	-0.1

y = 1.3763E-004 * x + 1.9372E-004
R = 1.0000
DL = 0.481 ppb
BEC = 1.408 ppb

Weight: <None>
Min Conc: <None>

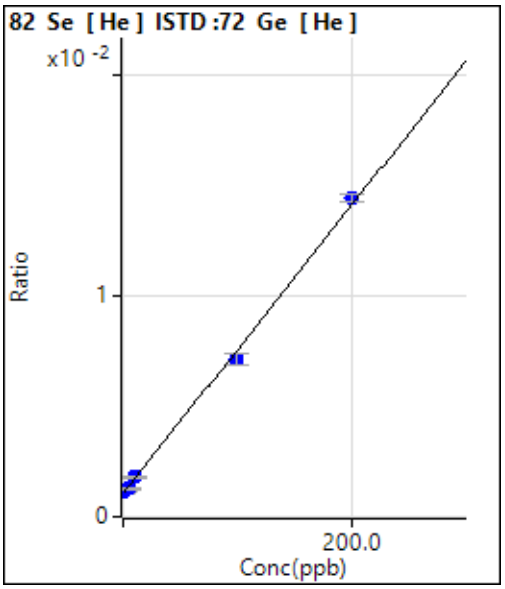
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-233.81	-0.0001	P	-84.3	
2	☐	2.000	0.900	-11.03	0.0000	P	-1614.	-55.0
3	☐	5.000	4.061	764.80	0.0003	P	25.3	-18.8
4	☐	10.000	10.263	2289.81	0.0009	P	22.7	2.6
5	☐	100.000	97.307	23382.05	0.0089	P	0.8	-2.7
6	☐	200.000	201.368	47249.23	0.0186	P	2.3	0.7

y = 9.2607E-005 * x - 8.7505E-005
R = 0.9999
DL = 2.39 ppb
BEC = -0.9449 ppb

Weight: <None>
Min Conc: <None>

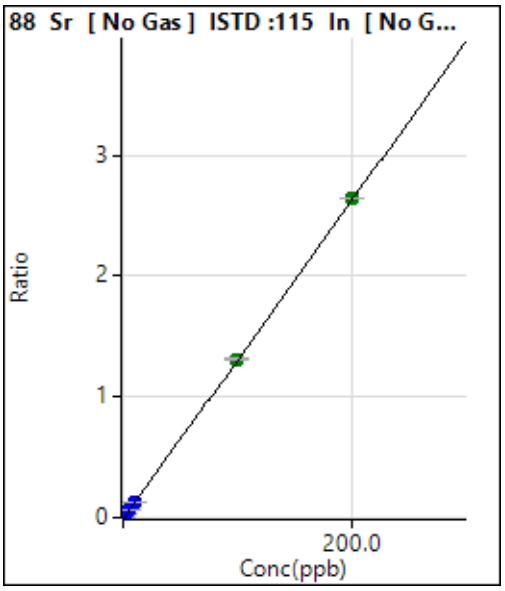


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	746.70	0.0011	P	12.7	
2	☐	2.000	0.862	790.04	0.0012	P	4.2	-56.9
3	☐	5.000	2.383	853.38	0.0013	P	5.2	-52.3
4	☐	10.000	9.939	1180.08	0.0018	P	9.0	-0.6
5	☐	100.000	92.353	4730.91	0.0072	P	7.2	-7.6
6	☐	200.000	203.903	9256.64	0.0144	P	2.2	2.0

y = 6.5277E-005 * x + 0.0011
R = 0.9990
DL = 6.612 ppb
BEC = 17.39 ppb

Weight: <None>
Min Conc: <None>

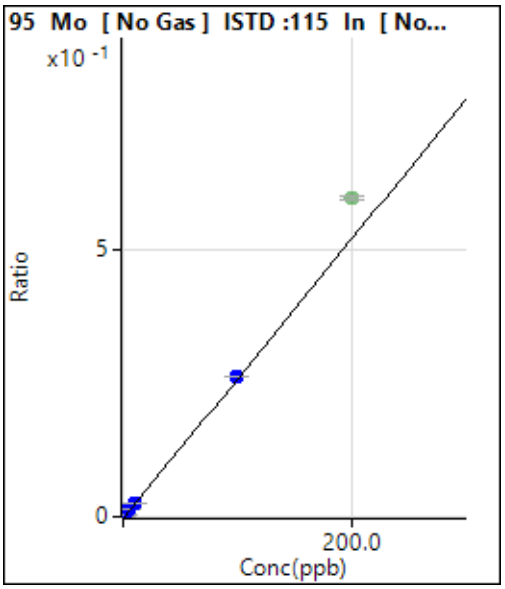
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2827.02	0.0010	P	6.7	
2	☐	2.000	1.886	75724.08	0.0258	P	3.1	-5.7
3	☐	5.000	4.706	188644.75	0.0630	P	1.8	-5.9
4	☐	10.000	9.593	376917.04	0.1273	P	0.8	-4.1
5	☐	100.000	99.062	3776048.28	1.3059	A	1.1	-0.9
6	☐	200.000	200.498	7461490.31	2.6422	A	0.5	0.2

y = 0.0132 * x + 9.6038E-004
R = 1.0000
DL = 0.01466 ppb
BEC = 0.0729 ppb

Weight: <None>
Min Conc: <None>

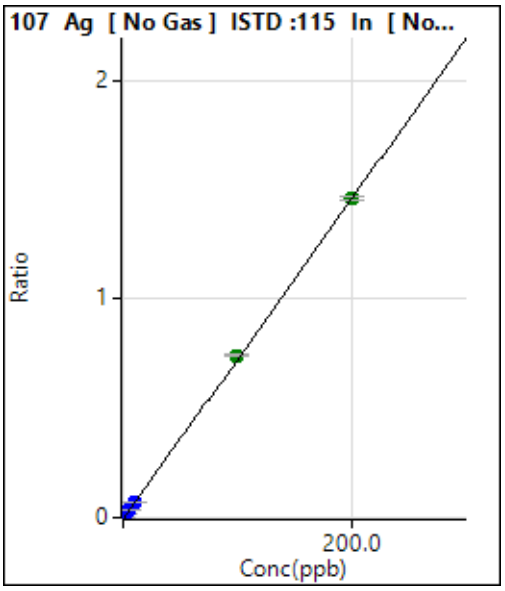


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	30.00	0.0000	P	57.5	
2	☐	2.000	1.986	15282.29	0.0052	P	0.6	-0.7
3	☐	5.000	4.957	38903.83	0.0130	P	1.9	-0.9
4	☐	10.000	10.012	77581.99	0.0262	P	2.5	0.1
5	☐	100.000	100.001	756689.18	0.2617	P	0.1	0.0
6	☑	200.000		1687039.97	0.5974	A	1.4	

y = 0.0026 * x + 1.0179E-005
R = 1.0000
DL = 0.006714 ppb
BEC = 0.00389 ppb

Weight: <None>
Min Conc: <None>

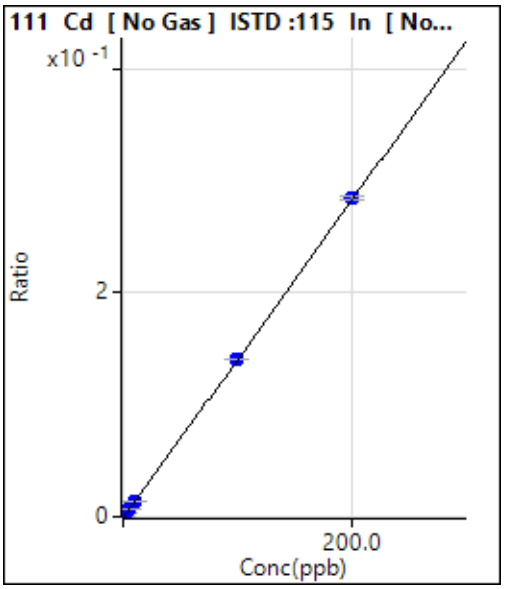
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	610.02	0.0002	P	16.4	
2	☐	2.000	1.914	41739.53	0.0142	P	1.2	-4.3
3	☐	5.000	4.701	103751.82	0.0346	P	3.0	-6.0
4	☐	10.000	9.563	207857.65	0.0702	P	1.0	-4.4
5	☐	100.000	101.363	2146398.98	0.7423	A	0.9	1.4
6	☐	200.000	199.349	4121936.09	1.4596	A	0.8	-0.3

y = 0.0073 * x + 2.0775E-004
R = 1.0000
DL = 0.01399 ppb
BEC = 0.02838 ppb

Weight: <None>
Min Conc: <None>

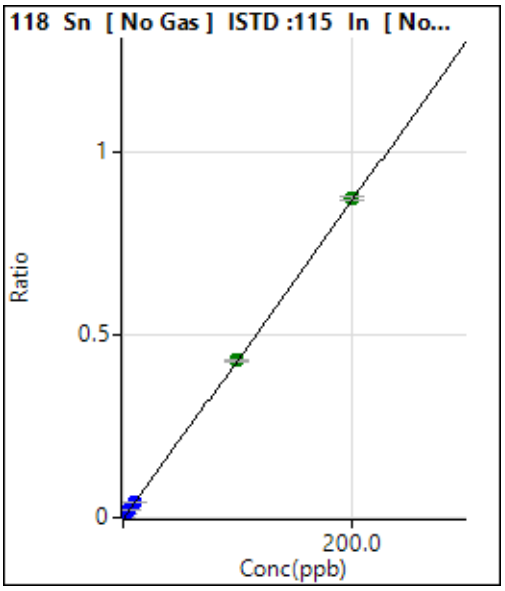


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	86.6	
2	☐	2.000	1.962	8172.68	0.0028	P	2.4	-1.9
3	☐	5.000	4.954	21070.36	0.0070	P	0.8	-0.9
4	☐	10.000	9.960	41836.51	0.0141	P	0.5	-0.4
5	☐	100.000	98.804	405325.23	0.1402	P	0.4	-1.2
6	☐	200.000	200.602	803694.23	0.2846	P	0.7	0.3

y = 0.0014 * x + 2.2508E-006
R = 1.0000
DL = 0.004123 ppb
BEC = 0.001587 ppb

Weight: <None>
Min Conc: <None>

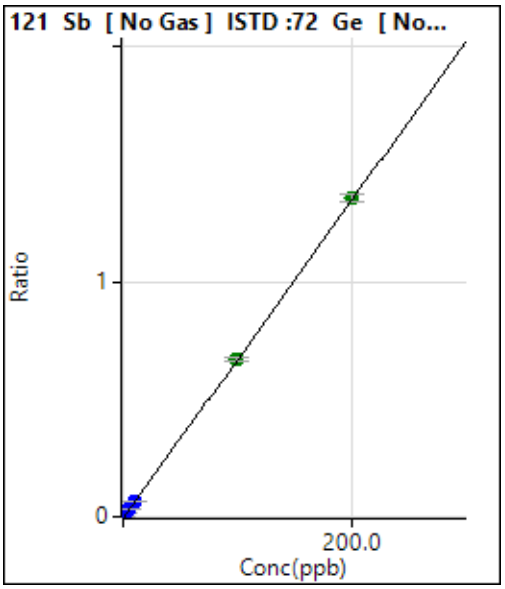
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1403.48	0.0005	P	7.6	
2	☐	2.000	1.819	24613.35	0.0084	P	2.2	-9.1
3	☐	5.000	4.465	59618.46	0.0199	P	2.1	-10.7
4	☐	10.000	9.110	118699.06	0.0401	P	1.8	-8.9
5	☐	100.000	98.568	1240955.63	0.4292	A	0.6	-1.4
6	☐	200.000	200.776	2467263.97	0.8737	A	0.6	0.4

y = 0.0043 * x + 4.7757E-004
R = 1.0000
DL = 0.02491 ppb
BEC = 0.1098 ppb

Weight: <None>
Min Conc: <None>

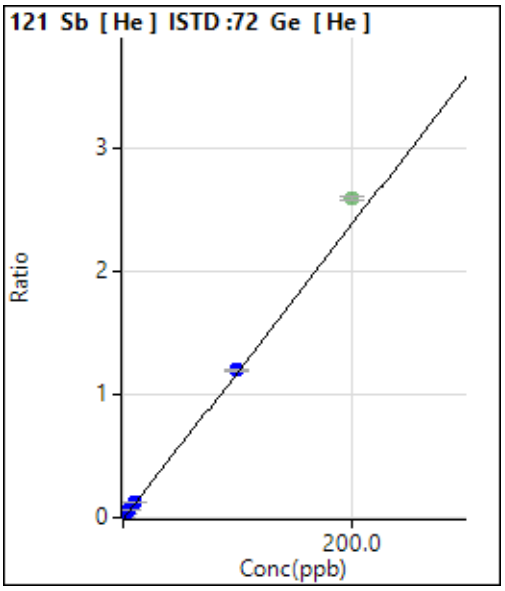


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	550.02	0.0002	P	16.2	
2	☐	2.000	1.883	34154.73	0.0129	P	1.2	-5.8
3	☐	5.000	4.689	84574.79	0.0319	P	0.9	-6.2
4	☐	10.000	9.430	169940.20	0.0640	P	0.8	-5.7
5	☐	100.000	98.971	1753740.91	0.6694	A	1.6	-1.0
6	☐	200.000	200.552	3452392.24	1.3561	A	2.1	0.3

y = 0.0068 * x + 2.0504E-004
R = 1.0000
DL = 0.0147 ppb
BEC = 0.03033 ppb

Weight: <None>
Min Conc: <None>

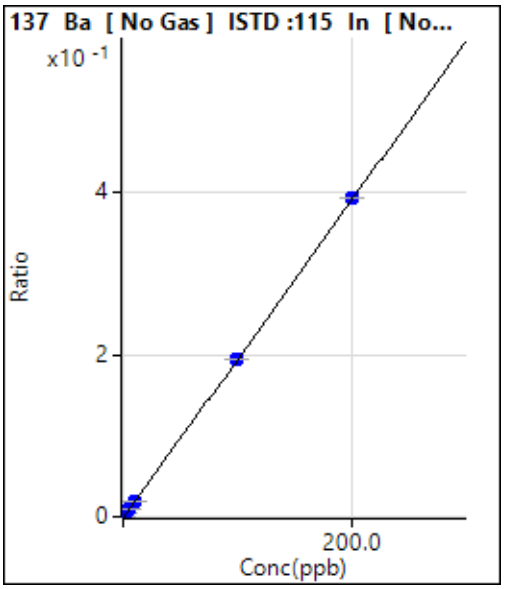
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	260.01	0.0004	P	11.4	
2	☐	2.000	1.988	16026.72	0.0242	P	2.0	-0.6
3	☐	5.000	5.130	40834.01	0.0618	P	0.5	2.6
4	☐	10.000	10.067	79939.39	0.1208	P	1.2	0.7
5	☐	100.000	99.987	790266.71	1.1964	P	1.0	0.0
6	☑	200.000		1662357.32	2.5936	A	0.8	

y = 0.0120 * x + 3.9543E-004
R = 1.0000
DL = 0.0113 ppb
BEC = 0.03306 ppb

Weight: <None>
Min Conc: <None>

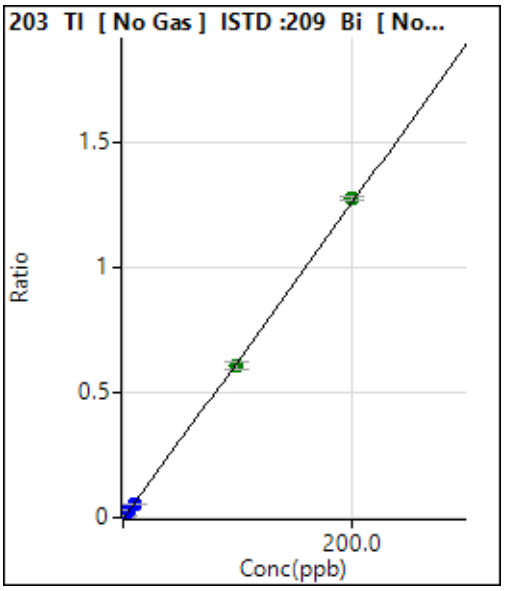


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	460.02	0.0002	P	8.6	
2	☐	2.000	1.985	11882.28	0.0040	P	2.3	-0.7
3	☐	5.000	4.741	28324.58	0.0095	P	2.5	-5.2
4	☐	10.000	9.676	56626.81	0.0191	P	1.5	-3.2
5	☐	100.000	99.151	562551.02	0.1946	P	0.6	-0.8
6	☐	200.000	200.447	1110277.38	0.3932	P	0.1	0.2

y = 0.0020 * x + 1.5632E-004
R = 1.0000
DL = 0.02066 ppb
BEC = 0.07973 ppb

Weight: <None>
Min Conc: <None>

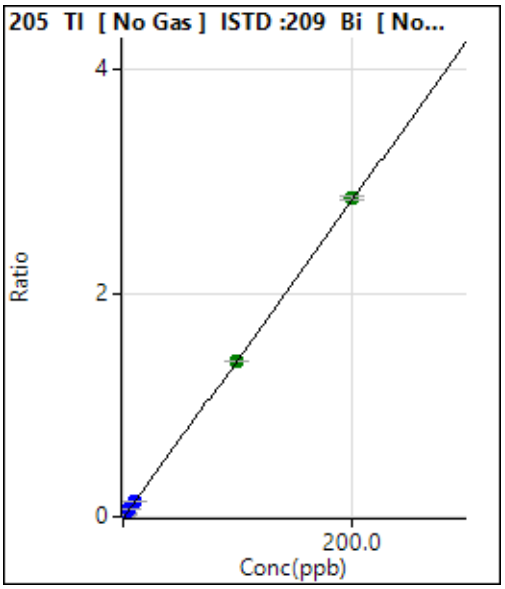
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	30.00	0.0000	P	57.8	
2	☐	2.000	1.728	27433.86	0.0110	P	1.0	-13.6
3	☐	5.000	4.388	69358.77	0.0278	P	0.8	-12.2
4	☐	10.000	8.760	139644.33	0.0555	P	1.5	-12.4
5	☐	100.000	96.145	1488070.92	0.6092	A	3.8	-3.9
6	☐	200.000	202.007	2985107.77	1.2800	A	1.6	1.0

y = 0.0063 * x + 1.2208E-005
R = 0.9997
DL = 0.003341 ppb
BEC = 0.001927 ppb

Weight: <None>
Min Conc: <None>

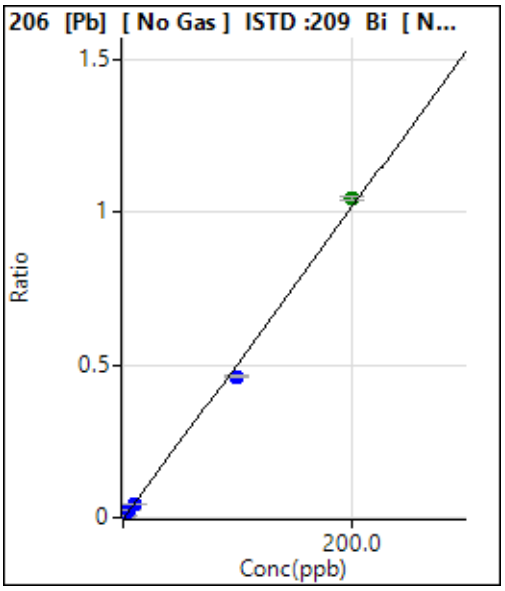


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	56.67	0.0000	P	10.3	
2	☐	2.000	1.812	64386.00	0.0257	P	1.9	-9.4
3	☐	5.000	4.640	164237.04	0.0659	P	0.4	-7.2
4	☐	10.000	9.335	333258.13	0.1325	P	1.1	-6.6
5	☐	100.000	98.330	3409236.61	1.3953	A	0.3	-1.7
6	☐	200.000	200.879	6648002.82	2.8504	A	1.0	0.4

y = 0.0142 * x + 2.3056E-005
R = 1.0000
DL = 0.0005012 ppb
BEC = 0.001625 ppb

Weight: <None>
Min Conc: <None>

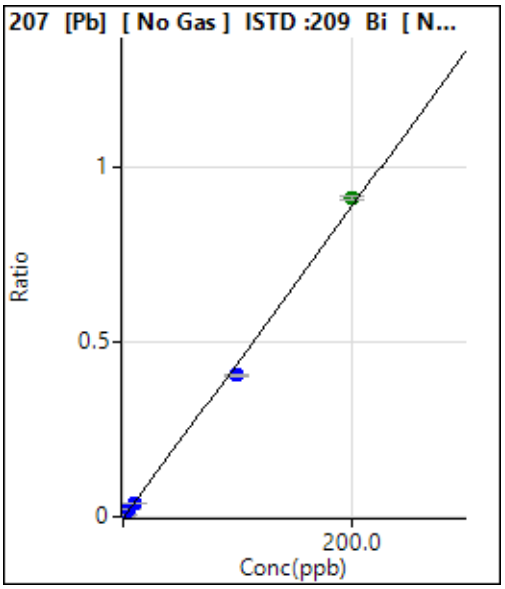
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	333.34	0.0001	P	27.2	
2	☐	2.000	1.755	22737.79	0.0091	P	2.0	-12.3
3	☐	5.000	4.454	56979.92	0.0229	P	1.4	-10.9
4	☐	10.000	9.063	116618.92	0.0464	P	0.8	-9.4
5	☐	100.000	90.338	1126063.24	0.4609	P	0.9	-9.7
6	☐	200.000	204.894	2437566.79	1.0452	A	1.2	2.4

y = 0.0051 * x + 1.3560E-004
R = 0.9984
DL = 0.02169 ppb
BEC = 0.02659 ppb

Weight: <None>
Min Conc: <None>

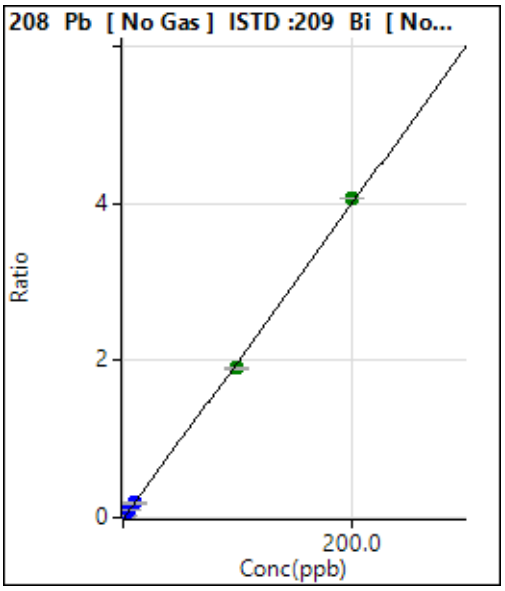


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	303.34	0.0001	P	26.8	
2	☐	2.000	1.758	19862.85	0.0079	P	1.6	-12.1
3	☐	5.000	4.467	49812.97	0.0200	P	1.2	-10.7
4	☐	10.000	9.060	101605.69	0.0404	P	1.7	-9.4
5	☐	100.000	90.714	985408.79	0.4033	P	0.6	-9.3
6	☐	200.000	204.706	2122367.62	0.9100	A	0.8	2.4

y = 0.0044 * x + 1.2340E-004
R = 0.9985
DL = 0.02233 ppb
BEC = 0.02776 ppb

Weight: <None>
Min Conc: <None>

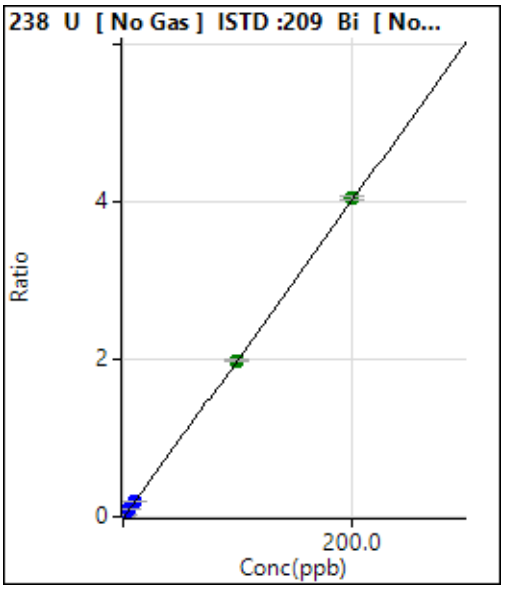
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1456.73	0.0006	P	16.4	
2	☐	2.000	1.783	91095.31	0.0364	P	0.9	-10.8
3	☐	5.000	4.545	229078.83	0.0919	P	0.9	-9.1
4	☐	10.000	9.143	463405.32	0.1842	P	0.8	-8.6
5	☐	100.000	94.807	4653264.85	1.9047	A	1.3	-5.2
6	☐	200.000	202.653	9494265.59	4.0707	A	0.5	1.3

y = 0.0201 * x + 5.9261E-004
R = 0.9995
DL = 0.01453 ppb
BEC = 0.02951 ppb

Weight: <None>
Min Conc: <None>

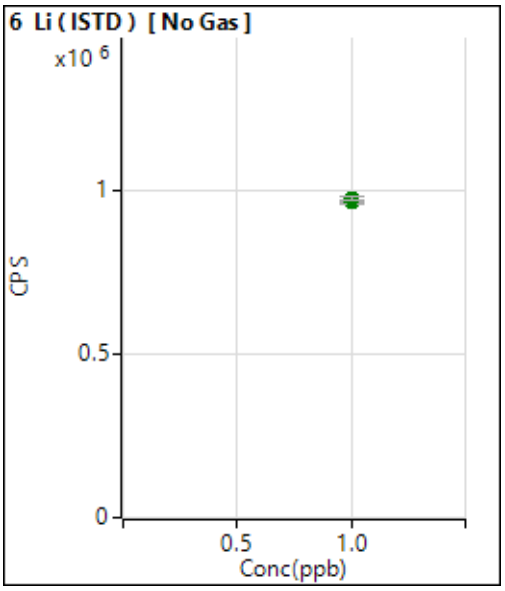


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	30.00	0.0000	P	33.2	
2	☐	2.000	1.788	90170.98	0.0360	P	0.1	-10.6
3	☐	5.000	4.591	230704.39	0.0925	P	0.8	-8.2
4	☐	10.000	9.283	470445.41	0.1870	P	0.5	-7.2
5	☐	100.000	98.171	4831913.99	1.9778	A	1.3	-1.8
6	☐	200.000	200.963	9442764.23	4.0487	A	0.8	0.5

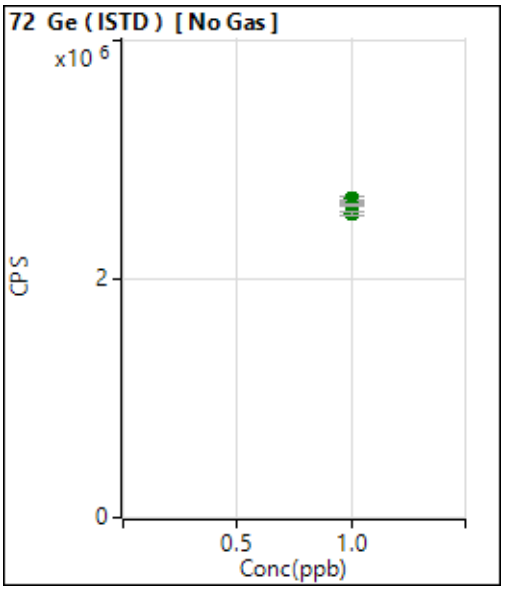
y = 0.0201 * x + 1.2203E-005
R = 0.9999
DL = 0.000604 ppb
BEC = 0.0006057 ppb

Weight: <None>
Min Conc: <None>

Calibration for 022_ICV.d

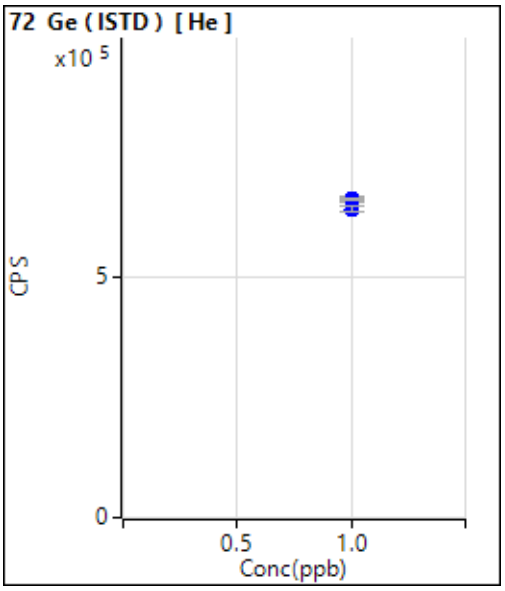


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		973852.57		A	1.0	
2	☐	1.000		961134.32		A	0.4	
3	☐	1.000		964843.72		A	0.4	
4	☐	1.000		962277.35		A	1.5	
5	☐	1.000		963971.46		A	1.3	
6	☐	1.000		973684.89		A	0.9	

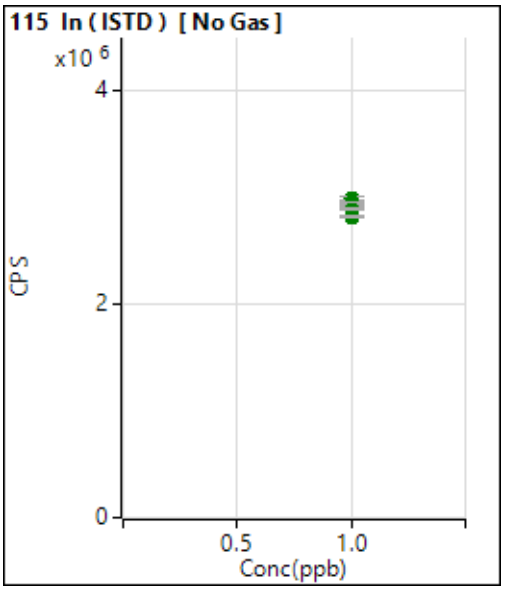


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2680899.65		A	0.6	
2	☐	1.000		2639898.76		A	0.9	
3	☐	1.000		2650531.53		A	0.3	
4	☐	1.000		2656779.75		A	1.0	
5	☐	1.000		2620173.09		A	0.6	
6	☐	1.000		2546194.55		A	1.3	

Calibration for 022_ICV.d

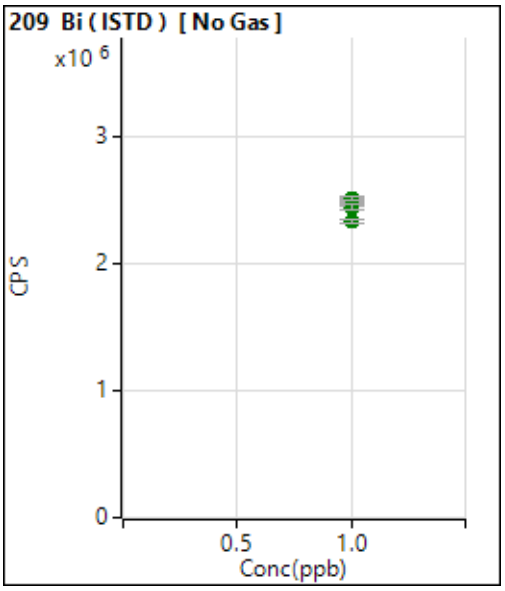


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		657482.18		P	0.4	
2	☐	1.000		662975.93		P	0.2	
3	☐	1.000		661147.59		P	0.4	
4	☐	1.000		661636.74		P	1.2	
5	☐	1.000		660575.08		P	0.7	
6	☐	1.000		640902.97		P	1.4	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2941541.56		A	1.8	
2	☐	1.000		2934786.00		A	0.7	
3	☐	1.000		2996984.88		A	1.0	
4	☐	1.000		2960323.59		A	0.6	
5	☐	1.000		2891563.56		A	0.5	
6	☐	1.000		2824021.70		A	0.5	

Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2457983.87		A	0.1	
2	☐	1.000		2502408.92		A	1.0	
3	☐	1.000		2493699.28		A	1.7	
4	☐	1.000		2515456.16		A	0.7	
5	☐	1.000		2443436.99		A	1.9	
6	☐	1.000		2332437.72		A	1.1	

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	015CALB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T12:27:53-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	53562	0.00
Be	9	1	No Gas	23	280.57
V	51	2	He	2029	0.15
Cr	52	2	He	670	3.12
Fe	56	2	He	10231	0.04
Se	78	2	He	127	8.66
As	75	2	He	107	34.54
Ca	44	2	He	867	0.98
Na	23	2	He	113949	0.00
Mg	24	2	He	600	1.47
K	39	2	He	60894	0.00
Mn	55	2	He	523	1.17
Co	59	2	He	30	111.11
Ni	60	2	He	277	4.95
Cu	63	2	He	1343	0.72
Zn	66	2	He	860	1.06
Al	27	2	He	1080	1.04
B	11	1	No Gas	7292	0.04
Al	27	1	No Gas	65705	0.00
Si	28	1	No Gas	435912	0.00
Ag	107	1	No Gas	610	2.46
Cd	111	1	No Gas	7	1299.04
Sr	88	1	No Gas	2827	0.30
Mo	95	1	No Gas	30	192.45
Sn	118	1	No Gas	1403	0.41
Sb	121	1	No Gas	550	3.03
Ba	137	1	No Gas	460	2.06
Tl	205	1	No Gas	57	17.98
Tl	203	1	No Gas	30	192.45
Pb	208	1	No Gas	1457	1.13
U	238	1	No Gas	30	111.11
Ca	43	2	He	33	51.96
Sb	121	2	He	260	4.44
Ti	47	2	He	3	5196.15
Cu	63	1	No Gas	2387	0.31

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD

Calibration Blank Report

Li	6	1	No Gas	973853	1.03
Ge	72	2	He	657482	0.36
Ge	72	1	No Gas	2680900	0.64
In	115	1	No Gas	2941542	1.84

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Bi	209	1	No Gas	2457984	0.10

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	016CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T12:30:03-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	7482	0.02
V	51	2	He	15134	0.00
Cr	52	2	He	16777	0.00
Fe	56	2	He	1563729	0.00
Se	78	2	He	316	3.48
As	75	2	He	2539	0.18
Ca	44	2	He	7802	0.04
Na	23	2	He	326572	0.00
Mg	24	2	He	118457	0.00
K	39	2	He	186071	0.00
Mn	55	2	He	10854	0.01
Co	59	2	He	26042	0.00
Ni	60	2	He	7215	0.04
Cu	63	2	He	20182	0.01
Zn	66	2	He	3677	0.12
Al	27	2	He	1683	0.37
B	11	1	No Gas	28773	0.00
Al	27	1	No Gas	96555	0.00
Si	28	1	No Gas	520595	0.00
Ag	107	1	No Gas	41740	0.00
Cd	111	1	No Gas	8173	0.02
Sr	88	1	No Gas	75724	0.00
Mo	95	1	No Gas	15282	0.01
Sn	118	1	No Gas	24613	0.01
Sb	121	1	No Gas	34155	0.01
Ba	137	1	No Gas	11882	0.02
Tl	205	1	No Gas	64386	0.00
Tl	203	1	No Gas	27434	0.00
Pb	208	1	No Gas	91095	0.00
U	238	1	No Gas	90171	0.00
Ca	43	2	He	393	3.68
Sb	121	2	He	16027	0.01
Cu	63	1	No Gas	34902	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	961134	0.41	973853	98.69	70	120	
Ge	72	2	He	662976	0.23	657482	100.84	70	120	
Ge	72	1	No Gas	2639899	0.85	2680900	98.47	70	120	

Calibration Standard Report

In	115	1	No Gas	2934786	0.68	2941542	99.77	70	120	
Bi	209	1	No Gas	2502409	1.00	2457984	101.81	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	017CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T12:32:10-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	19126	0.00
V	51	2	He	35657	0.00
Cr	52	2	He	41119	0.00
Fe	56	2	He	3837772	0.00
Se	78	2	He	613	0.57
As	75	2	He	6160	0.01
Ca	44	2	He	17905	0.02
Na	23	2	He	654026	0.00
Mg	24	2	He	301904	0.00
K	39	2	He	382438	0.00
Mn	55	2	He	25678	0.00
Co	59	2	He	65638	0.00
Ni	60	2	He	17979	0.01
Cu	63	2	He	49072	0.00
Zn	66	2	He	8873	0.02
Al	27	2	He	2414	0.23
B	11	1	No Gas	61409	0.00
Al	27	1	No Gas	141346	0.00
Si	28	1	No Gas	671891	0.00
Ag	107	1	No Gas	103752	0.00
Cd	111	1	No Gas	21070	0.00
Sr	88	1	No Gas	188645	0.00
Mo	95	1	No Gas	38904	0.00
Sn	118	1	No Gas	59618	0.00
Sb	121	1	No Gas	84575	0.00
Ba	137	1	No Gas	28325	0.01
Tl	205	1	No Gas	164237	0.00
Tl	203	1	No Gas	69359	0.00
Pb	208	1	No Gas	229079	0.00
U	238	1	No Gas	230704	0.00
Ca	43	2	He	1117	1.07
Sb	121	2	He	40834	0.00
Cu	63	1	No Gas	87108	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	964844	0.38	973853	99.07	70	120	
Ge	72	2	He	661148	0.36	657482	100.56	70	120	
Ge	72	1	No Gas	2650532	0.32	2680900	98.87	70	120	

Calibration Standard Report

In	115	1	No Gas	2996985	0.97	2941542	101.88	70	120	
Bi	209	1	No Gas	2493699	1.72	2457984	101.45	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	018CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T12:34:18-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	37904	0.00
V	51	2	He	70032	0.00
Cr	52	2	He	85181	0.00
Fe	56	2	He	7613078	0.00
Se	78	2	He	1079	0.35
As	75	2	He	12301	0.02
Ca	44	2	He	35483	0.00
Na	23	2	He	1327816	0.00
Mg	24	2	He	605421	0.00
K	39	2	He	706446	0.00
Mn	55	2	He	51912	0.01
Co	59	2	He	132456	0.00
Ni	60	2	He	36449	0.00
Cu	63	2	He	99197	0.00
Zn	66	2	He	17204	0.01
Al	27	2	He	3991	0.11
B	11	1	No Gas	117998	0.00
Al	27	1	No Gas	227274	0.00
Si	28	1	No Gas	950303	0.00
Ag	107	1	No Gas	207858	0.00
Cd	111	1	No Gas	41837	0.00
Sr	88	1	No Gas	376917	0.00
Mo	95	1	No Gas	77582	0.00
Sn	118	1	No Gas	118699	0.00
Sb	121	1	No Gas	169940	0.00
Ba	137	1	No Gas	56627	0.00
Tl	205	1	No Gas	333258	0.00
Tl	203	1	No Gas	139644	0.00
Pb	208	1	No Gas	463405	0.00
U	238	1	No Gas	470445	0.00
Ca	43	2	He	2124	0.29
Sb	121	2	He	79939	0.00
Cu	63	1	No Gas	173857	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	962277	1.50	973853	98.81	70	120	
Ge	72	2	He	661637	1.23	657482	100.63	70	120	
Ge	72	1	No Gas	2656780	0.96	2680900	99.10	70	120	

Calibration Standard Report

In	115	1	No Gas	2960324	0.60	2941542	100.64	70	120	
Bi	209	1	No Gas	2515456	0.68	2457984	102.34	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	019CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T12:36:25-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	379718	0.00
V	51	2	He	672652	0.00
Cr	52	2	He	800512	0.00
Fe	56	2	He	72588031	0.00
Se	78	2	He	9245	0.01
As	75	2	He	120996	0.00
Ca	44	2	He	338542	0.00
Na	23	2	He	11455626	0.00
Mg	24	2	He	6343295	0.00
K	39	2	He	6841390	0.00
Mn	55	2	He	496896	0.00
Co	59	2	He	1379090	0.00
Ni	60	2	He	344225	0.00
Cu	63	2	He	937624	0.00
Zn	66	2	He	165625	0.00
Al	27	2	He	28713	0.01
B	11	1	No Gas	1169906	0.00
Al	27	1	No Gas	1842788	0.00
Si	28	1	No Gas	4570351	0.00
Ag	107	1	No Gas	2146399	0.00
Cd	111	1	No Gas	405325	0.00
Sr	88	1	No Gas	3776048	0.00
Mo	95	1	No Gas	756689	0.00
Sn	118	1	No Gas	1240956	0.00
Sb	121	1	No Gas	1753741	0.00
Ba	137	1	No Gas	562551	0.00
Tl	205	1	No Gas	3409237	0.00
Tl	203	1	No Gas	1488071	0.00
Pb	208	1	No Gas	4653265	0.00
U	238	1	No Gas	4831914	0.00
Ca	43	2	He	19905	0.01
Sb	121	2	He	790267	0.00
Cu	63	1	No Gas	1756141	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	963971	1.32	973853	98.99	70	120	
Ge	72	2	He	660575	0.70	657482	100.47	70	120	
Ge	72	1	No Gas	2620173	0.62	2680900	97.73	70	120	

Calibration Standard Report

In	115	1	No Gas	2891564	0.55	2941542	98.30	70	120	
Bi	209	1	No Gas	2443437	1.88	2457984	99.41	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	020CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T12:38:24-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	791278	0.00
V	51	2	He	1484745	0.00
Cr	52	2	He	1629260	0.00
Fe	56	2	He	142964108	0.00
Se	78	2	He	17750	0.01
As	75	2	He	237885	0.00
Ca	44	2	He	667377	0.00
Na	23	2	He	22402012	0.00
Mg	24	2	He	12490203	0.00
K	39	2	He	13423836	0.00
Mn	55	2	He	981274	0.00
Co	59	2	He	2660179	0.00
Ni	60	2	He	669121	0.00
Cu	63	2	He	1914012	0.00
Zn	66	2	He	317136	0.00
Al	27	2	He	56552	0.00
B	11	1	No Gas	2367353	0.00
Al	27	1	No Gas	3532640	0.00
Si	28	1	No Gas	8727301	0.00
Ag	107	1	No Gas	4121936	0.00
Cd	111	1	No Gas	803694	0.00
Sr	88	1	No Gas	7461490	0.00
Mo	95	1	No Gas	1687040	0.00
Sn	118	1	No Gas	2467264	0.00
Sb	121	1	No Gas	3452392	0.00
Ba	137	1	No Gas	1110277	0.00
Tl	205	1	No Gas	6648003	0.00
Tl	203	1	No Gas	2985108	0.00
Pb	208	1	No Gas	9494266	0.00
U	238	1	No Gas	9442764	0.00
Ca	43	2	He	39430	0.00
Sb	121	2	He	1662357	0.00
Cu	63	1	No Gas	3392010	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	973685	0.94	973853	99.98	70	120	
Ge	72	2	He	640903	1.43	657482	97.48	70	120	
Ge	72	1	No Gas	2546195	1.34	2680900	94.98	70	120	

Calibration Standard Report

In	115	1	No Gas	2824022	0.52	2941542	96.00	70	120	
Bi	209	1	No Gas	2332438	1.11	2457984	94.89	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	022_ICV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T12:49:30-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	105.129	3.139	1577744	1.67	100	105.1	90	110	
Be	9	1	No Gas	100.061	1.109	396706	0.72	100	100.1	90	110	
V	51	2	He	101.058	0.581	691137	1.07	100	101.1	90	110	
Cr	52	2	He	96.847	0.297	819363	0.78	100	96.8	90	110	
Fe	56	2	He	9866.559	0.602	73695876	0.33	10000	98.7	90	110	
Se	78	2	He	102.971	1.167	9647	1.38	100	103.0	90	110	
As	75	2	He	104.803	0.108	130317	0.48	100	104.8	90	110	
Ca	44	2	He	9876.287	0.412	344614	0.78	10000	98.8	90	110	
Na	23	2	He	9777.250	0.775	11507437	0.73	10000	97.8	90	110	
Mg	24	2	He	9822.235	0.437	6408373	0.36	10000	98.2	90	110	
K	39	2	He	9868.575	0.912	6949563	0.67	10000	98.7	90	110	
Mn	55	2	He	100.978	0.230	517578	0.44	100	101.0	90	110	
Co	59	2	He	104.443	1.810	1457520	1.88	100	104.4	90	110	
Ni	60	2	He	101.103	0.797	354473	0.25	100	101.1	90	110	
Cu	63	2	He	96.591	0.131	959481	0.71	100	96.6	90	110	
Zn	66	2	He	101.704	0.306	169782	0.88	100	101.7	90	110	
Al	27	2	He	97.503	1.109	29261	1.48	100	97.5	90	110	
B	11	1	No Gas	504.137	0.848	1205902	0.68	500	100.8	90	110	
Al	27	1	No Gas	102.032	2.179	1901305	2.16	100	102.0	90	110	
Si	28	1	No Gas	500.403	0.335	4724376	0.68	500	100.1	90	110	
Ag	107	1	No Gas	103.018	1.260	2195392	0.99	100	103.0	90	110	
Cd	111	1	No Gas	100.231	1.326	413824	1.17	100	100.2	90	110	
Sr	88	1	No Gas	100.236	1.640	3845445	1.37	100	100.2	90	110	
Mo	95	1	No Gas	96.402	1.155	734139	0.85	100	96.4	90	110	
Sn	118	1	No Gas	100.343	0.108	1271423	0.35	100	100.3	90	110	
Sb	121	1	No Gas	100.694	0.678	1800226	0.47	100	100.7	90	110	
Ba	137	1	No Gas	100.564	1.293	574245	1.15	100	100.6	90	110	
Tl	205	1	No Gas	104.252	0.611	3579988	1.12	100	104.3	90	110	
Tl	203	1	No Gas	101.930	0.511	1562929	0.45	100	101.9	90	110	
Pb	208	1	No Gas	96.253	0.552	4679653	1.07	100	96.3	90	110	
U	238	1	No Gas	96.388	1.082	4699083	0.53	100	96.4	90	110	
Ca	43	2	He	10110.672	0.791	20816	1.27	10000	101.1	90	110	
Sb	121	2	He	100.848	0.576	810349	1.11	100	100.8	90	110	
Ti	47	2	He	98.172	1.883	22475	1.34	100	98.2	90	110	
Cu	63	1	No Gas	103.744	1.223	1829761	0.58	100	103.7	90	110	
Se	82	1	No Gas	103.281	1.912	25055	2.38	100	103.3	90	110	

QC ISTD Table

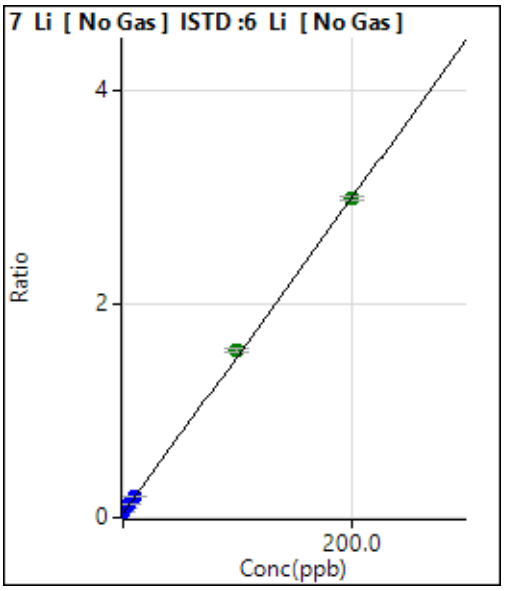
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	981922	1.41	973853	100.83	70	120	
Ge	72	2	He	671537	0.58	657482	102.14	70	120	
Ge	72	1	No Gas	2643616	0.98	2680900	98.61	70	120	
In	115	1	No Gas	2910197	0.30	2941542	98.93	70	120	
Bi	209	1	No Gas	2419950	0.55	2457984	98.45	70	120	

Calibration for 022_ICV.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\083022A.b\
Analysis File: 083022A.batch.bin
DA Date-Time: 08/30/2022 22:08:01
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	015CALB.d	CAL BLK	08/30/2022 12:27:53
2	016CALS.d	2/10/200	08/30/2022 12:30:03
3	017CALS.d	5/25/500	08/30/2022 12:32:10
4	018CALS.d	10/50/100	08/30/2022 12:34:18
5	019CALS.d	100/500/10K	08/30/2022 12:36:25
6	020CALS.d	200/1000/20K	08/30/2022 12:38:24

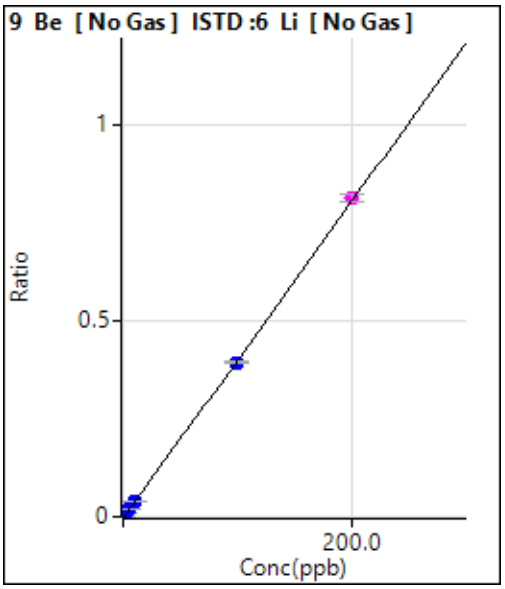
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	53561.52	0.0550	P	1.8	
2	☐	2.000	1.975	80886.00	0.0842	P	1.1	-1.3
3	☐	5.000	4.778	121134.68	0.1255	P	0.2	-4.4
4	☐	10.000	9.696	190666.10	0.1982	P	1.4	-3.0
5	☐	100.000	102.373	1509914.20	1.5665	A	1.4	2.4
6	☐	200.000	198.834	2911860.16	2.9908	A	1.3	-0.6

y = 0.0148 * x + 0.0550
R = 0.9999
DL = 0.2044 ppb
BEC = 3.725 ppb

Weight: <None>
Min Conc: <None>

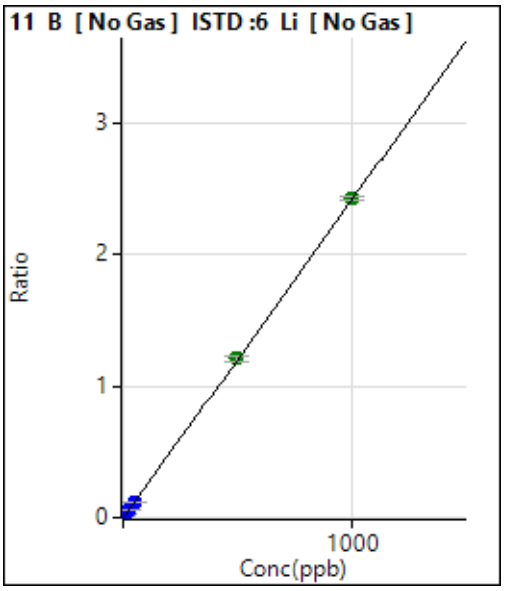


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	23.33	0.0000	P	64.6	
2	☐	2.000	1.922	7482.04	0.0078	P	1.7	-3.9
3	☐	5.000	4.904	19126.40	0.0198	P	1.0	-1.9
4	☐	10.000	9.751	37904.35	0.0394	P	1.9	-2.5
5	☐	100.000	97.562	379718.26	0.3940	P	1.3	-2.4
6	☐	200.000	201.235	791277.90	0.8126	M	2.1	0.6

y = 0.0040 * x + 2.3855E-005
R = 0.9999
DL = 0.01144 ppb
BEC = 0.005908 ppb

Weight: <None>
Min Conc: <None>

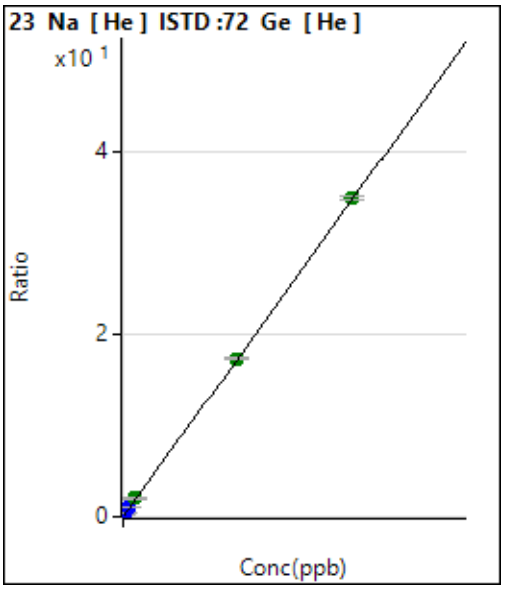
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7291.95	0.0075	P	4.3	
2	☐	10.000	9.270	28772.81	0.0299	P	0.4	-7.3
3	☐	25.000	23.193	61408.60	0.0636	P	1.4	-7.2
4	☐	50.000	47.550	117998.14	0.1226	P	0.5	-4.9
5	☐	500.000	498.263	1169905.94	1.2140	A	3.4	-0.3
6	☐	1000.000	1001.043	2367353.45	2.4314	A	0.7	0.1

y = 0.0024 * x + 0.0075
R = 1.0000
DL = 0.3985 ppb
BEC = 3.093 ppb

Weight: <None>
Min Conc: <None>

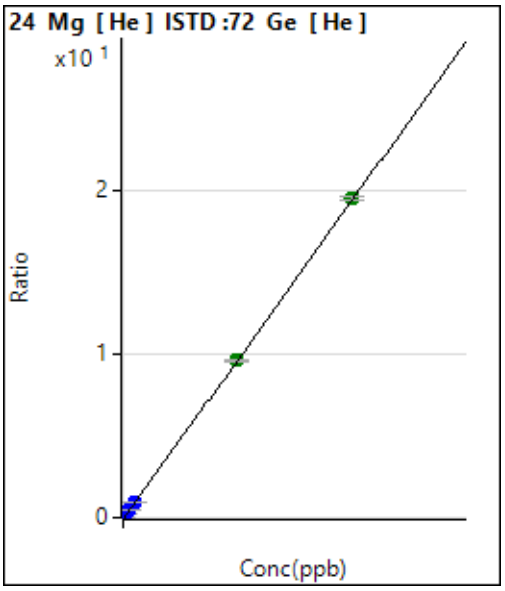


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	113949.08	0.1733	P	0.8	
2	☐	200.000	184.028	326572.06	0.4926	P	0.5	-8.0
3	☐	500.000	470.297	654026.40	0.9892	P	0.8	-5.9
4	☐	1000.000	1057.022	1327815.97	2.0072	A	2.6	5.7
5	☐	10000.00	9895.843	11455626.50	17.3420	A	0.7	-1.0
6	☐	20000.00	20050.13	22402012.17	34.9590	A	1.6	0.3

y = 0.0017 * x + 0.1733
R = 1.0000
DL = 2.318 ppb
BEC = 99.89 ppb

Weight: <None>
Min Conc: <None>

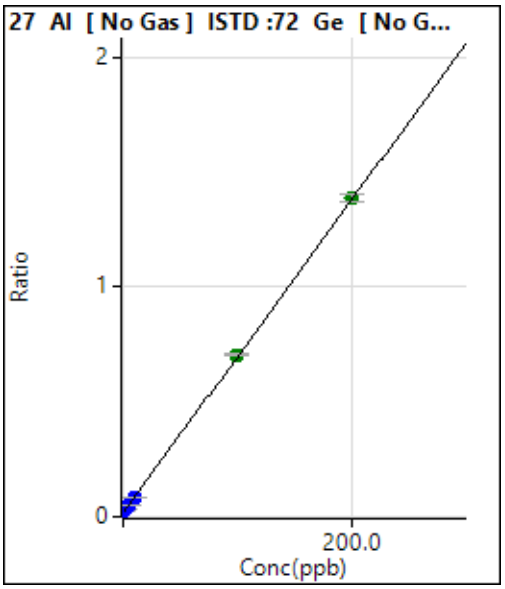
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	600.02	0.0009	P	8.5	
2	☐	200.000	182.986	118456.64	0.1787	P	2.0	-8.5
3	☐	500.000	469.109	301904.35	0.4566	P	0.4	-6.2
4	☐	1000.000	941.005	605420.87	0.9151	P	0.8	-5.9
5	☐	10000.00	9884.032	6343294.70	9.6030	A	0.9	-1.2
6	☐	20000.00	20061.87	12490203.14	19.4905	A	1.2	0.3

y = 9.7148E-004 * x + 9.1242E-004
R = 1.0000
DL = 0.2391 ppb
BEC = 0.9392 ppb

Weight: <None>
Min Conc: <None>

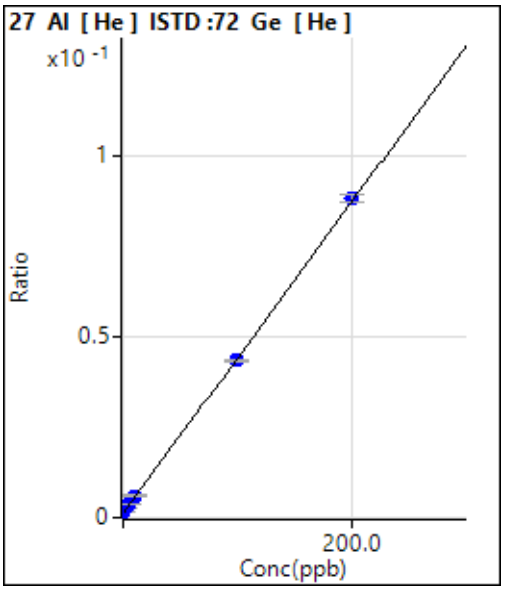


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	65705.01	0.0245	P	3.0	
2	☐	2.000	1.772	96554.98	0.0366	P	1.0	-11.4
3	☐	5.000	4.232	141345.75	0.0533	P	0.7	-15.4
4	☐	10.000	8.965	227274.27	0.0856	P	1.5	-10.4
5	☐	100.000	99.698	1842788.15	0.7033	A	0.9	-0.3
6	☐	200.000	200.224	3532640.26	1.3878	A	2.9	0.1

y = 0.0068 * x + 0.0245
R = 1.0000
DL = 0.3203 ppb
BEC = 3.6 ppb

Weight: <None>
Min Conc: <None>

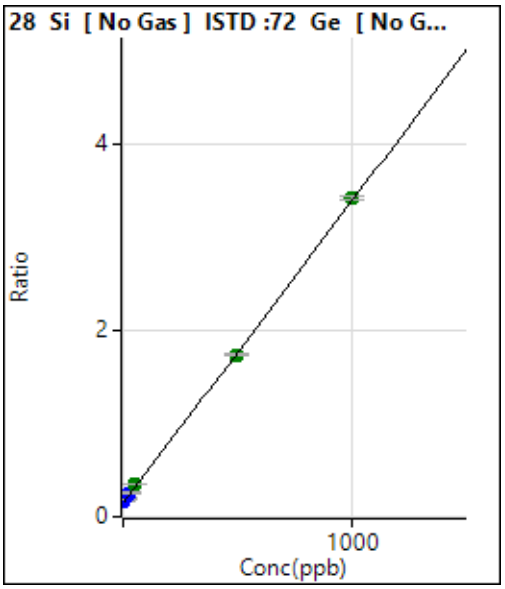
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1080.06	0.0016	P	11.4	
2	☐	2.000	2.085	1683.47	0.0025	P	6.5	4.2
3	☐	5.000	4.670	2413.59	0.0037	P	6.0	-6.6
4	☐	10.000	10.211	3990.65	0.0060	P	5.5	2.1
5	☐	100.000	97.254	28713.27	0.0435	P	1.1	-2.7
6	☐	200.000	201.370	56551.74	0.0882	P	2.0	0.7

y = 4.3003E-004 * x + 0.0016
R = 0.9999
DL = 1.309 ppb
BEC = 3.821 ppb

Weight: <None>
Min Conc: <None>

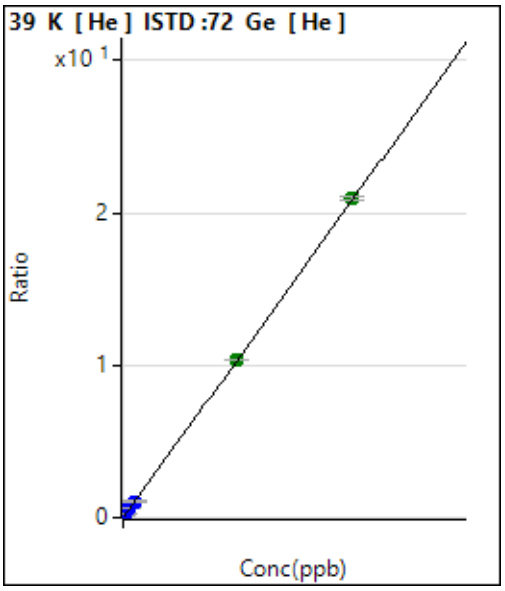


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	435912.31	0.1626	P	1.6	
2	☐	10.000	10.661	520595.15	0.1972	P	1.7	6.6
3	☐	25.000	28.003	671890.73	0.2535	P	5.0	12.0
4	☐	50.000	60.083	950302.98	0.3577	A	1.3	20.2
5	☐	500.000	487.226	4570351.08	1.7443	A	0.8	-2.6
6	☐	1000.000	1005.801	8727300.91	3.4279	A	1.8	0.6

y = 0.0032 * x + 0.1626
R = 0.9998
DL = 2.351 ppb
BEC = 50.09 ppb

Weight: <None>
Min Conc: <None>

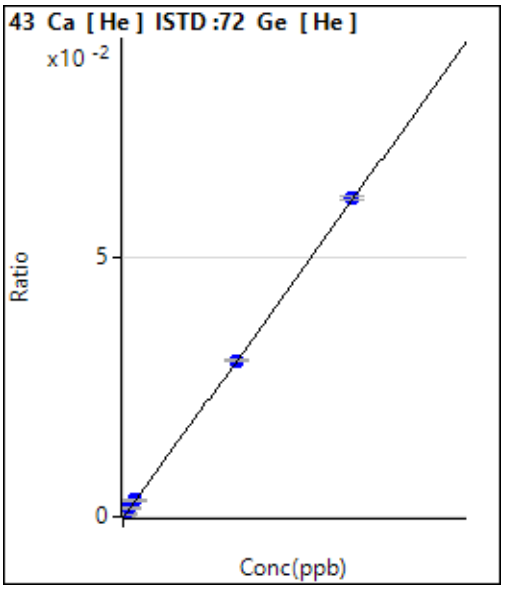
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	60894.31	0.0926	P	0.6	
2	☐	200.000	180.937	186070.70	0.2807	P	1.0	-9.5
3	☐	500.000	467.465	382437.80	0.5785	P	0.9	-6.5
4	☐	1000.000	938.295	706445.56	1.0678	P	1.0	-6.2
5	☐	10000.00	9875.822	6841390.11	10.3565	A	0.4	-1.2
6	☐	20000.00	20066.17	13423836.05	20.9473	A	1.3	0.3

y = 0.0010 * x + 0.0926
R = 1.0000
DL = 1.553 ppb
BEC = 89.11 ppb

Weight: <None>
Min Conc: <None>

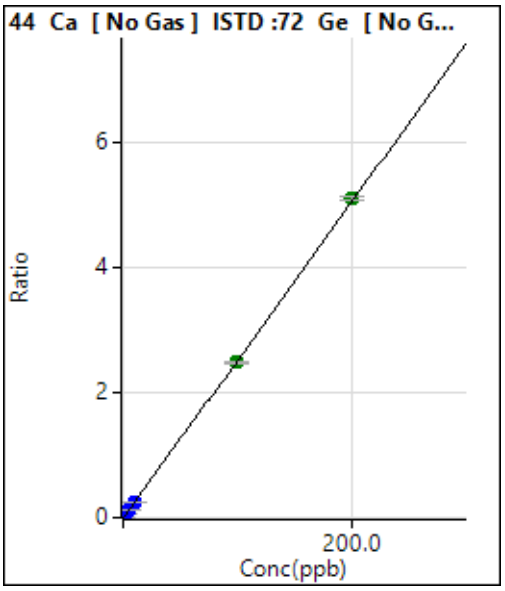


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	33.33	0.0001	P	17.0	
2	☐	200.000	177.243	393.34	0.0006	P	14.3	-11.4
3	☐	500.000	535.441	1116.73	0.0017	P	12.2	7.1
4	☐	1000.000	1032.464	2123.54	0.0032	P	7.0	3.2
5	☐	10000.00	9828.587	19904.65	0.0301	P	1.9	-1.7
6	☐	20000.00	20083.42	39430.08	0.0615	P	0.7	0.4

y = 3.0608E-006 * x + 5.0683E-005
R = 0.9999
DL = 8.455 ppb
BEC = 16.56 ppb

Weight: <None>
Min Conc: <None>

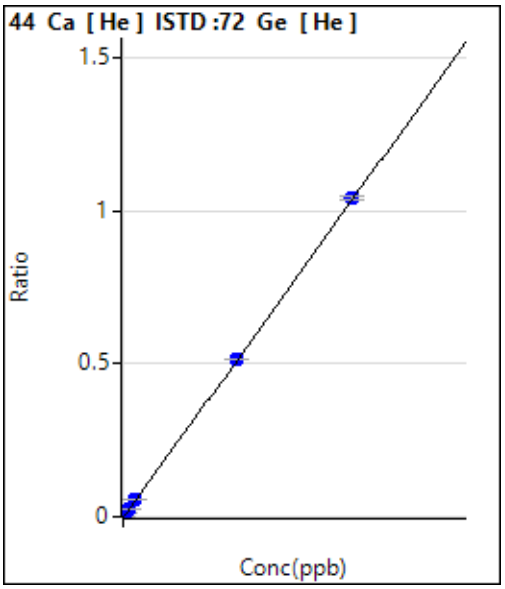
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	40362.69	0.0151	P	2.0	
2	☐	2.000	1.860	163829.87	0.0621	P	0.4	-7.0
3	☐	5.000	4.605	348335.76	0.1314	P	1.3	-7.9
4	☐	10.000	9.325	665941.87	0.2507	P	1.5	-6.8
5	☐	100.000	97.532	6496634.70	2.4795	A	0.8	-2.5
6	☐	200.000	201.279	12987542.72	5.1011	A	1.3	0.6

y = 0.0253 * x + 0.0151
R = 0.9999
DL = 0.03524 ppb
BEC = 0.5959 ppb

Weight: <None>
Min Conc: <None>

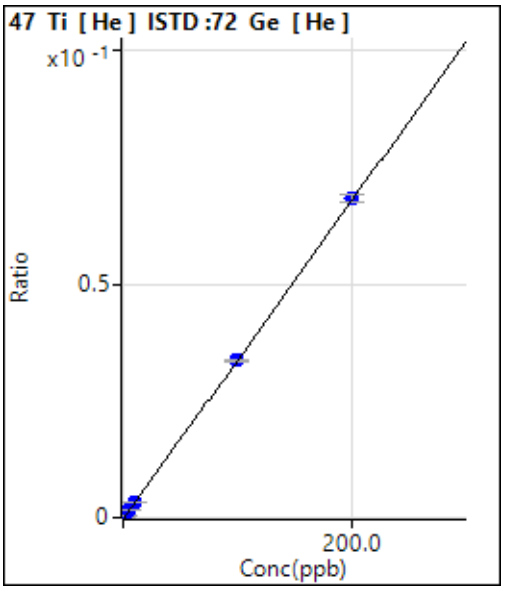


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	866.71	0.0013	P	8.8	
2	☐	200.000	201.636	7802.35	0.0118	P	3.4	0.8
3	☐	500.000	497.077	17905.26	0.0271	P	3.5	-0.6
4	☐	1000.000	1009.379	35482.79	0.0536	P	0.5	0.9
5	☐	10000.00	9863.488	338542.38	0.5125	P	0.5	-1.4
6	☐	20000.00	20067.84	667377.31	1.0414	P	0.7	0.3

y = 5.1826E-005 * x + 0.0013
R = 1.0000
DL = 6.732 ppb
BEC = 25.44 ppb

Weight: <None>
Min Conc: <None>

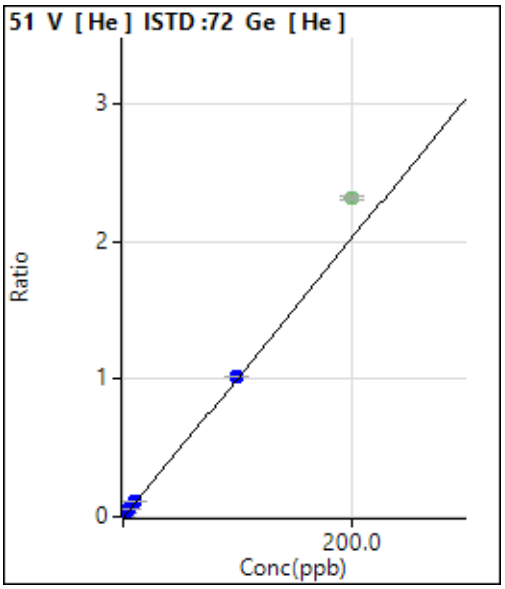
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3.33	0.0000	P	173.2	
2	☐	2.000	1.726	393.34	0.0006	P	5.5	-13.7
3	☐	5.000	5.163	1166.74	0.0018	P	8.9	3.3
4	☐	10.000	9.787	2210.21	0.0033	P	3.0	-2.1
5	☐	100.000	98.864	22264.91	0.0337	P	1.4	-1.1
6	☐	200.000	200.577	43820.08	0.0684	P	2.1	0.3

y = 3.4089E-004 * x + 5.0669E-006
R = 1.0000
DL = 0.07723 ppb
BEC = 0.01486 ppb

Weight: <None>
Min Conc: <None>

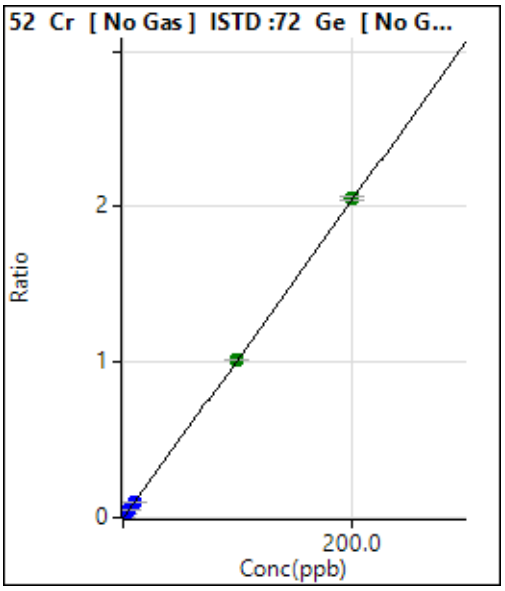


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2029.05	0.0031	P	3.2	
2	☐	2.000	1.944	15133.94	0.0228	P	0.4	-2.8
3	☐	5.000	5.008	35657.36	0.0539	P	0.3	0.2
4	☐	10.000	10.121	70032.30	0.1059	P	0.6	1.2
5	☐	100.000	99.989	672651.52	1.0183	P	0.5	0.0
6	☑	200.000		1484744.73	2.3167	A	0.7	

y = 0.0102 * x + 0.0031
R = 1.0000
DL = 0.02942 ppb
BEC = 0.304 ppb

Weight: <None>
Min Conc: <None>

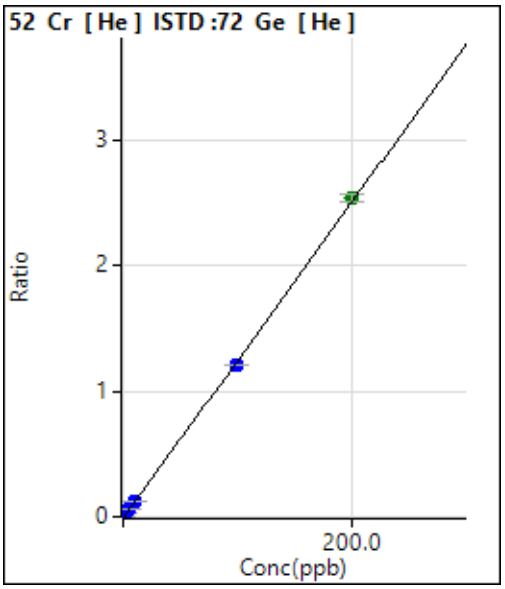
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16219.88	0.0060	P	1.4	
2	☐	2.000	1.909	67472.63	0.0256	P	0.3	-4.6
3	☐	5.000	4.782	145577.58	0.0549	P	1.3	-4.4
4	☐	10.000	9.607	276887.80	0.1042	P	1.7	-3.9
5	☐	100.000	99.053	2668238.09	1.0183	A	0.1	-0.9
6	☐	200.000	200.499	5232630.45	2.0551	A	1.5	0.2

y = 0.0102 * x + 0.0060
R = 1.0000
DL = 0.02465 ppb
BEC = 0.592 ppb

Weight: <None>
Min Conc: <None>

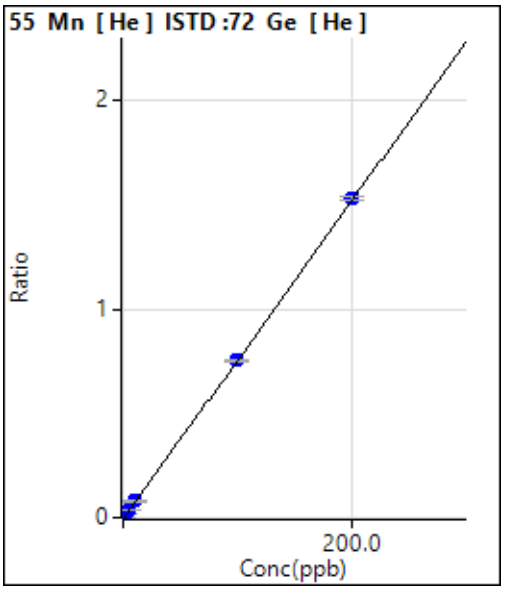


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	670.03	0.0010	P	21.2	
2	☐	2.000	1.929	16777.17	0.0253	P	1.0	-3.5
3	☐	5.000	4.860	41118.73	0.0622	P	1.5	-2.8
4	☐	10.000	10.147	85180.75	0.1288	P	1.2	1.5
5	☐	100.000	96.189	800511.55	1.2118	P	0.4	-3.8
6	☐	200.000	201.902	1629259.56	2.5426	A	1.9	1.0

y = 0.0126 * x + 0.0010
R = 0.9997
DL = 0.05144 ppb
BEC = 0.08099 ppb

Weight: <None>
Min Conc: <None>

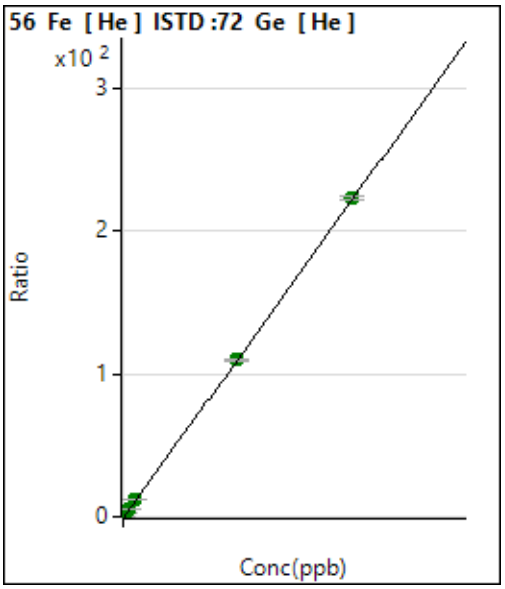
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	523.35	0.0008	P	6.2	
2	☐	2.000	2.043	10854.48	0.0164	P	1.6	2.1
3	☐	5.000	4.989	25677.81	0.0388	P	0.5	-0.2
4	☐	10.000	10.184	51911.96	0.0785	P	1.6	1.8
5	☐	100.000	98.551	496895.85	0.7522	P	0.8	-1.4
6	☐	200.000	200.715	981274.15	1.5312	P	1.1	0.4

y = 0.0076 * x + 7.9600E-004
R = 1.0000
DL = 0.01926 ppb
BEC = 0.1044 ppb

Weight: <None>
Min Conc: <None>

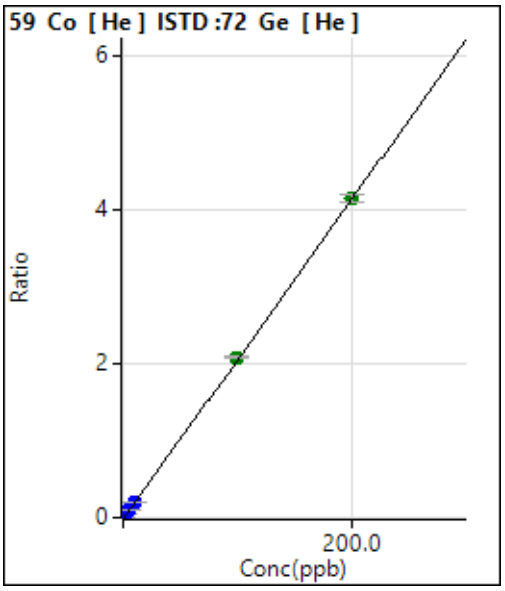


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10230.64	0.0156	P	4.6	
2	☐	200.000	210.687	1563729.14	2.3587	A	1.1	5.3
3	☐	500.000	520.536	3837772.24	5.8046	A	1.1	4.1
4	☐	1000.000	1033.233	7613077.60	11.5064	A	0.6	3.3
5	☐	10000.00	9879.855	72588030.58	109.892	A	1.2	-1.2
6	☐	20000.00	20057.79	142964107.8	223.083	A	0.9	0.3

y = 0.0111 * x + 0.0156
R = 1.0000
DL = 0.1935 ppb
BEC = 1.399 ppb

Weight: <None>
Min Conc: <None>

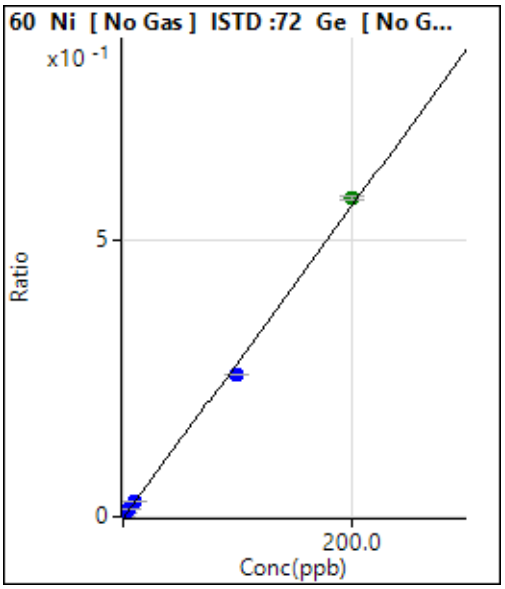
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	30.00	0.0000	P	33.7	
2	☐	2.000	1.888	26041.80	0.0393	P	0.6	-5.6
3	☐	5.000	4.775	65637.85	0.0993	P	1.7	-4.5
4	☐	10.000	9.631	132455.98	0.2002	P	0.3	-3.7
5	☐	100.000	100.465	1379090.45	2.0878	A	0.6	0.5
6	☐	200.000	199.793	2660178.66	4.1518	A	3.0	-0.1

y = 0.0208 * x + 4.5665E-005
R = 1.0000
DL = 0.00222 ppb
BEC = 0.002197 ppb

Weight: <None>
Min Conc: <None>

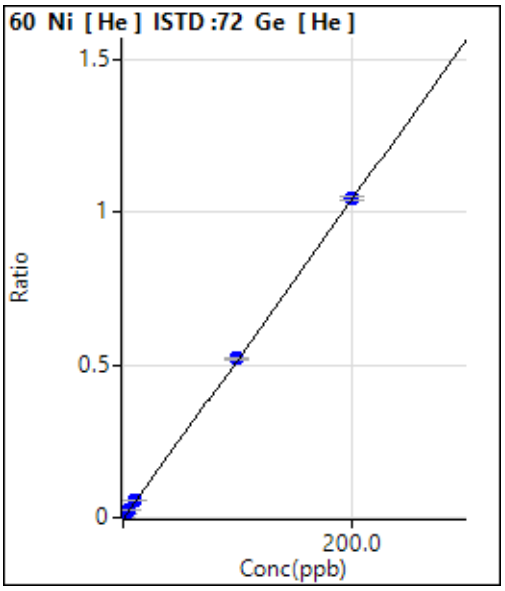


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	556.69	0.0002	P	21.4	
2	☐	2.000	1.836	14234.32	0.0054	P	1.8	-8.2
3	☐	5.000	4.722	35890.83	0.0135	P	1.3	-5.6
4	☐	10.000	9.487	71725.08	0.0270	P	1.8	-5.1
5	☐	100.000	91.407	676830.25	0.2583	P	0.5	-8.6
6	☐	200.000	204.331	1469508.52	0.5772	A	1.2	2.2

y = 0.0028 * x + 2.0762E-004
R = 0.9987
DL = 0.04719 ppb
BEC = 0.07353 ppb

Weight: <None>
Min Conc: <None>

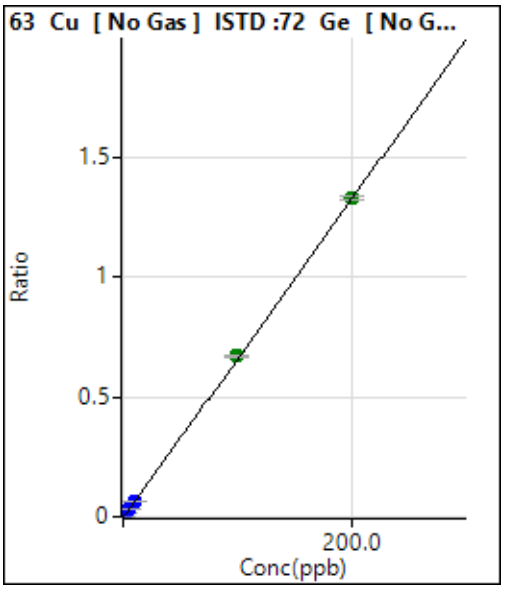
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	276.68	0.0004	P	13.4	
2	☐	2.000	2.005	7215.36	0.0109	P	2.5	0.3
3	☐	5.000	5.132	17978.73	0.0272	P	1.7	2.6
4	☐	10.000	10.480	36449.14	0.0551	P	0.9	4.8
5	☐	100.000	99.812	344224.76	0.5211	P	1.6	-0.2
6	☐	200.000	200.067	669120.80	1.0442	P	1.3	0.0

y = 0.0052 * x + 4.2072E-004
R = 1.0000
DL = 0.03246 ppb
BEC = 0.08064 ppb

Weight: <None>
Min Conc: <None>

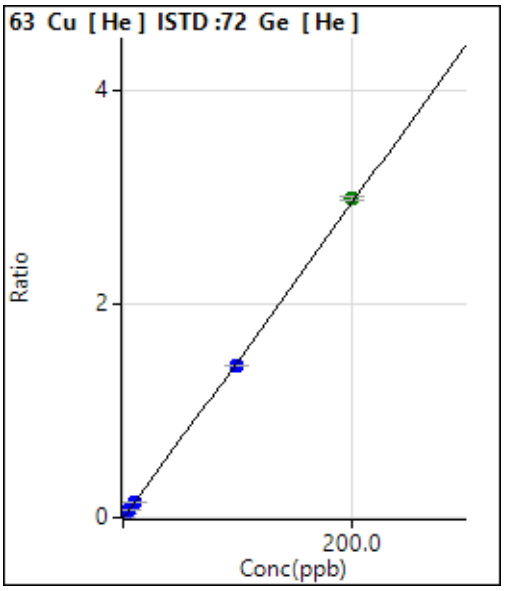


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2386.93	0.0009	P	8.0	
2	☑	2.000		34901.80	0.0132	P	0.1	
3	☐	5.000	4.798	87107.98	0.0329	P	1.1	-4.0
4	☐	10.000	9.687	173857.29	0.0654	P	1.2	-3.1
5	☐	100.000	100.447	1756140.65	0.6702	A	0.4	0.4
6	☐	200.000	199.797	3392010.36	1.3323	A	1.0	-0.1

y = 0.0067 * x + 8.9062E-004
R = 1.0000
DL = 0.03225 ppb
BEC = 0.1337 ppb

Weight: <None>
Min Conc: <None>

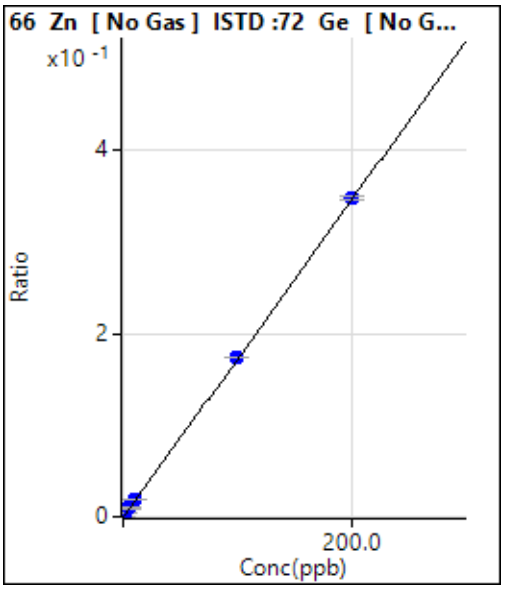
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1343.43	0.0020	P	9.7	
2	☑	2.000		20181.98	0.0304	P	0.9	
3	☐	5.000	4.887	49072.12	0.0742	P	1.2	-2.3
4	☐	10.000	10.012	99197.14	0.1499	P	0.9	0.1
5	☐	100.000	95.959	937624.31	1.4195	P	0.8	-4.0
6	☐	200.000	202.023	1914011.95	2.9861	A	1.5	1.0

y = 0.0148 * x + 0.0020
R = 0.9997
DL = 0.04043 ppb
BEC = 0.1383 ppb

Weight: <None>
Min Conc: <None>

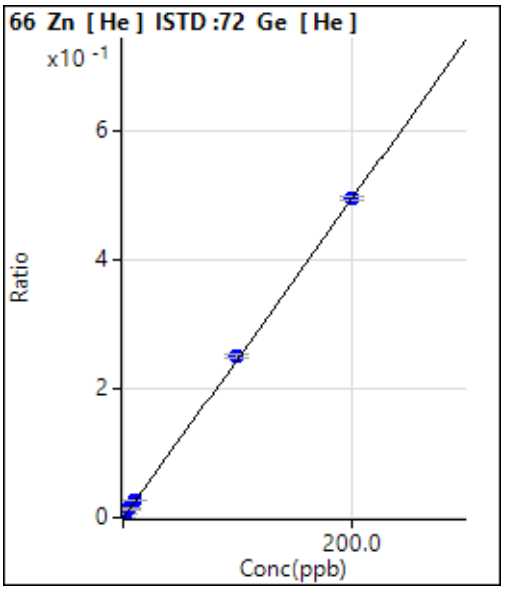


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2380.25	0.0009	P	2.9	
2	☐	2.000	1.820	10667.74	0.0040	P	3.3	-9.0
3	☐	5.000	5.009	25350.67	0.0096	P	3.3	0.2
4	☐	10.000	10.043	48583.76	0.0183	P	0.8	0.4
5	☐	100.000	99.483	453883.59	0.1732	P	0.3	-0.5
6	☐	200.000	200.258	885518.92	0.3478	P	0.9	0.1

y = 0.0017 * x + 8.8780E-004
R = 1.0000
DL = 0.04437 ppb
BEC = 0.5125 ppb

Weight: <None>
Min Conc: <None>

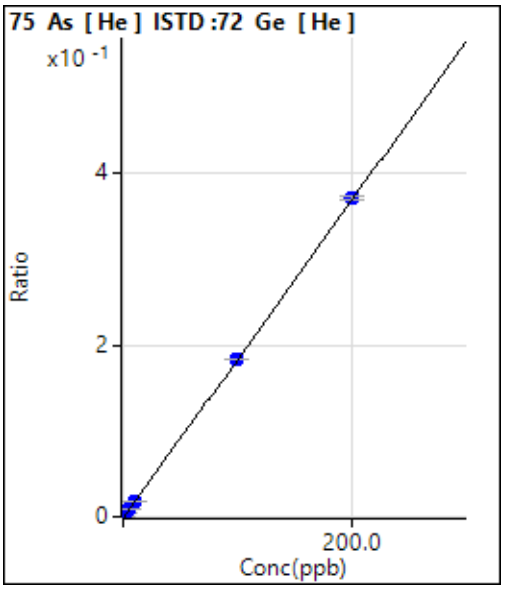
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	860.04	0.0013	P	9.2	
2	☐	2.000	1.714	3677.23	0.0055	P	4.5	-14.3
3	☐	5.000	4.898	8873.08	0.0134	P	1.9	-2.0
4	☐	10.000	9.986	17204.47	0.0260	P	1.6	-0.1
5	☐	100.000	100.860	165625.06	0.2507	P	1.7	0.9
6	☐	200.000	199.576	317135.60	0.4949	P	0.8	-0.2

y = 0.0025 * x + 0.0013
R = 1.0000
DL = 0.1454 ppb
BEC = 0.529 ppb

Weight: <None>
Min Conc: <None>

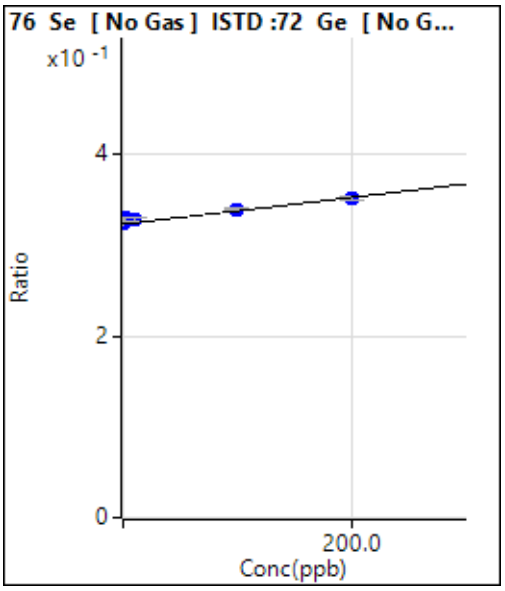


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	106.67	0.0002	P	37.2	
2	☐	2.000	1.982	2539.14	0.0038	P	4.8	-0.9
3	☐	5.000	4.949	6160.32	0.0093	P	0.8	-1.0
4	☐	10.000	9.960	12301.22	0.0186	P	1.5	-0.4
5	☐	100.000	98.916	120996.28	0.1832	P	0.5	-1.1
6	☐	200.000	200.545	237884.88	0.3712	P	0.8	0.3

y = 0.0019 * x + 1.6238E-004
R = 1.0000
DL = 0.09797 ppb
BEC = 0.08777 ppb

Weight: <None>
Min Conc: <None>

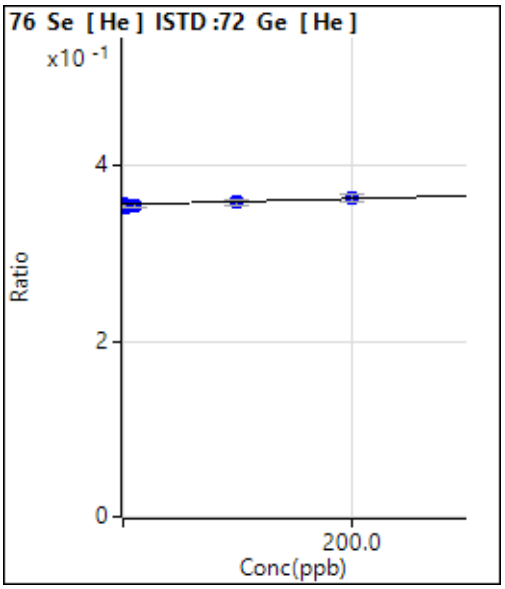
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	867100.43	0.3234	P	0.5	
2	☐	2.000	47.051	872261.44	0.3304	P	1.4	2252.5
3	☐	5.000	37.649	872124.41	0.3290	P	0.5	653.0
4	☐	10.000	38.079	874291.47	0.3291	P	1.2	280.8
5	☐	100.000	110.723	890657.64	0.3399	P	0.3	10.7
6	☐	200.000	191.968	896215.40	0.3520	P	1.3	-4.0

y = 1.4893E-004 * x + 0.3234
R = 0.9764
DL = 35.83 ppb
BEC = 2172 ppb

Weight: <None>
Min Conc: <None>

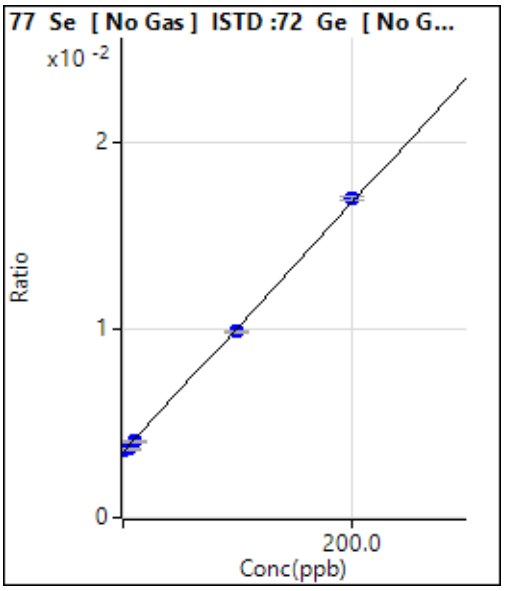


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	234088.77	0.3560	P	0.6	
2	☐	2.000	-87.739	234090.09	0.3531	P	1.2	-4487.
3	☐	5.000	-46.731	234357.57	0.3545	P	0.4	-1034.
4	☐	10.000	-31.416	234853.93	0.3550	P	0.8	-414.2
5	☐	100.000	64.213	236598.69	0.3582	P	1.4	-35.8
6	☐	200.000	222.155	232908.09	0.3635	P	2.1	11.1

y = 3.3483E-005 * x + 0.3560
R = 0.9626
DL = 182.9 ppb
BEC = 1.063E+04 ppb

Weight: <None>
Min Conc: <None>

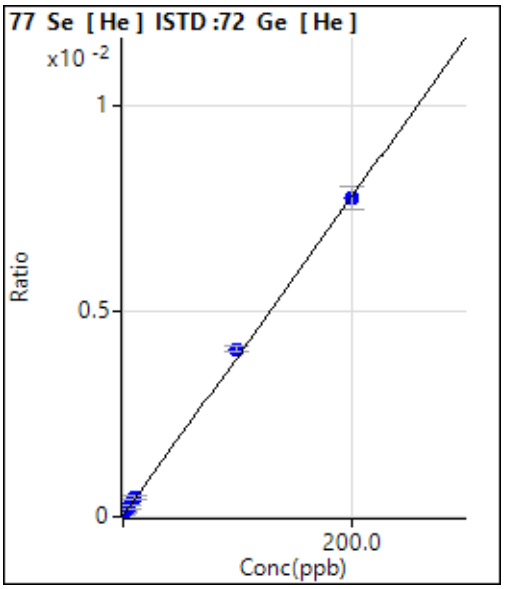
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	9657.00	0.0036	P	2.2	
2	☐	2.000	1.935	9847.07	0.0037	P	1.7	-3.3
3	☐	5.000	0.952	9713.67	0.0037	P	3.5	-81.0
4	☐	10.000	7.132	10824.51	0.0041	P	1.4	-28.7
5	☐	100.000	95.388	26002.05	0.0099	P	1.0	-4.6
6	☐	200.000	202.551	43350.12	0.0170	P	0.7	1.3

y = 6.6271E-005 * x + 0.0036
R = 0.9995
DL = 3.587 ppb
BEC = 54.35 ppb

Weight: <None>
Min Conc: <None>

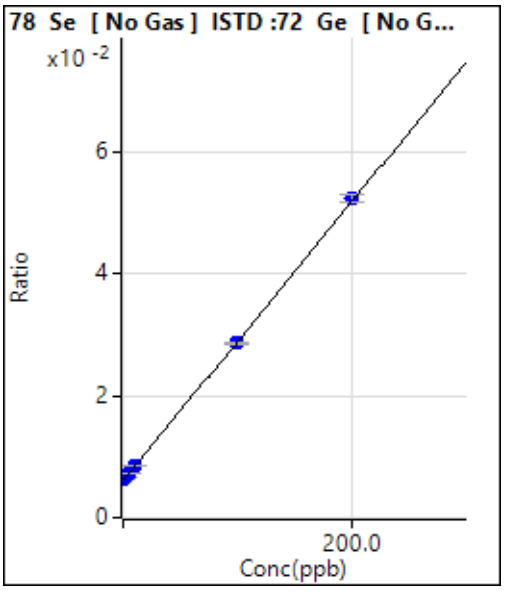


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	40.00	0.0001	P	90.1	
2	☐	2.000	1.539	80.00	0.0001	P	44.9	-23.0
3	☐	5.000	4.544	156.67	0.0002	P	29.0	-9.1
4	☐	10.000	10.771	316.68	0.0005	P	18.9	7.7
5	☐	100.000	103.476	2690.31	0.0041	P	3.7	3.5
6	☐	200.000	198.239	4960.99	0.0077	P	6.9	-0.9

y = 3.8765E-005 * x + 6.0915E-005
R = 0.9998
DL = 4.245 ppb
BEC = 1.571 ppb

Weight: <None>
Min Conc: <None>

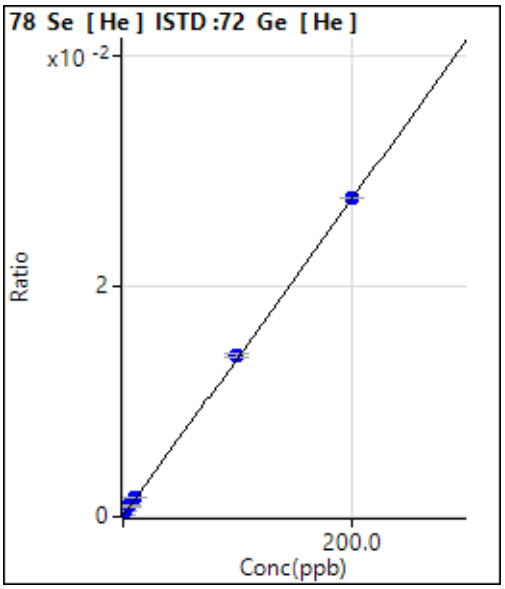
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16994.29	0.0063	P	4.0	
2	☐	2.000	1.419	17591.69	0.0067	P	3.0	-29.1
3	☐	5.000	4.091	19287.34	0.0073	P	1.9	-18.2
4	☐	10.000	9.588	22676.05	0.0085	P	0.3	-4.1
5	☐	100.000	97.245	74944.65	0.0286	P	0.6	-2.8
6	☐	200.000	201.427	133530.89	0.0525	P	2.3	0.7

y = 2.2894E-004 * x + 0.0063
R = 0.9999
DL = 3.364 ppb
BEC = 27.69 ppb

Weight: <None>
Min Conc: <None>

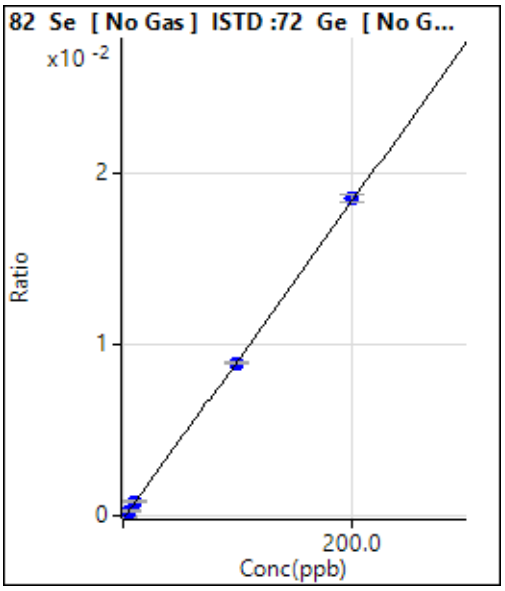


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	127.33	0.0002	P	11.4	
2	☐	2.000	2.055	316.00	0.0005	P	10.8	2.8
3	☐	5.000	5.334	613.35	0.0009	P	3.7	6.7
4	☐	10.000	10.436	1078.71	0.0016	P	2.5	4.4
5	☐	100.000	100.293	9245.19	0.0140	P	1.5	0.3
6	☐	200.000	199.823	17749.67	0.0277	P	0.1	-0.1

y = 1.3763E-004 * x + 1.9372E-004
R = 1.0000
DL = 0.481 ppb
BEC = 1.408 ppb

Weight: <None>
Min Conc: <None>

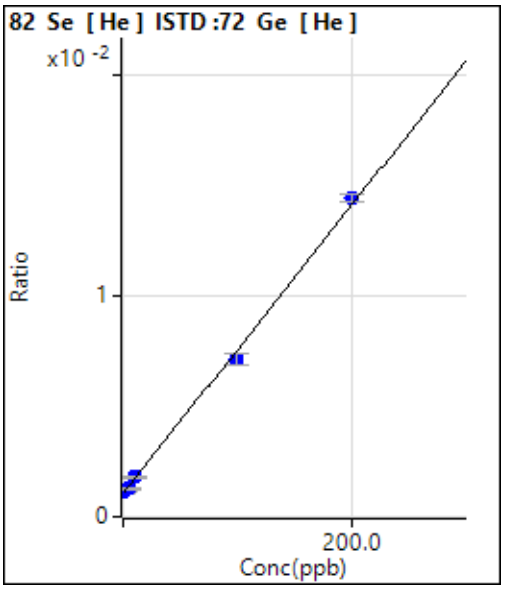
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-233.81	-0.0001	P	-84.3	
2	☐	2.000	0.900	-11.03	0.0000	P	-1614.	-55.0
3	☐	5.000	4.061	764.80	0.0003	P	25.3	-18.8
4	☐	10.000	10.263	2289.81	0.0009	P	22.7	2.6
5	☐	100.000	97.307	23382.05	0.0089	P	0.8	-2.7
6	☐	200.000	201.368	47249.23	0.0186	P	2.3	0.7

y = 9.2607E-005 * x - 8.7505E-005
R = 0.9999
DL = 2.39 ppb
BEC = -0.9449 ppb

Weight: <None>
Min Conc: <None>

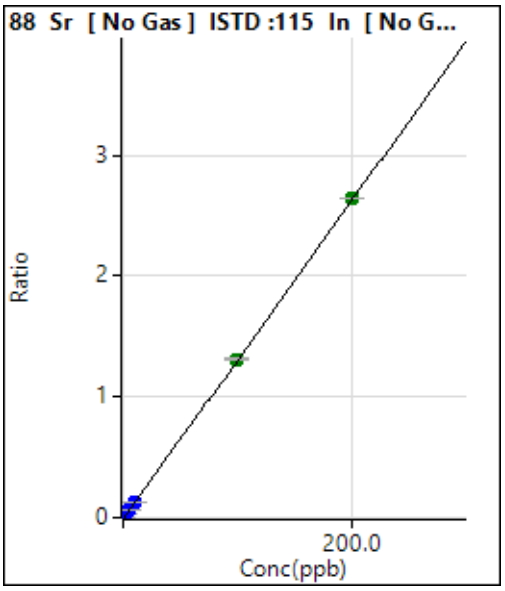


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	746.70	0.0011	P	12.7	
2	☐	2.000	0.862	790.04	0.0012	P	4.2	-56.9
3	☐	5.000	2.383	853.38	0.0013	P	5.2	-52.3
4	☐	10.000	9.939	1180.08	0.0018	P	9.0	-0.6
5	☐	100.000	92.353	4730.91	0.0072	P	7.2	-7.6
6	☐	200.000	203.903	9256.64	0.0144	P	2.2	2.0

y = 6.5277E-005 * x + 0.0011
R = 0.9990
DL = 6.612 ppb
BEC = 17.39 ppb

Weight: <None>
Min Conc: <None>

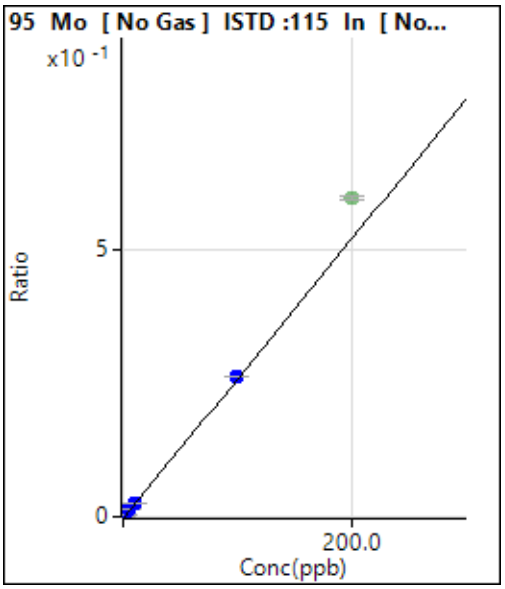
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2827.02	0.0010	P	6.7	
2	☐	2.000	1.886	75724.08	0.0258	P	3.1	-5.7
3	☐	5.000	4.706	188644.75	0.0630	P	1.8	-5.9
4	☐	10.000	9.593	376917.04	0.1273	P	0.8	-4.1
5	☐	100.000	99.062	3776048.28	1.3059	A	1.1	-0.9
6	☐	200.000	200.498	7461490.31	2.6422	A	0.5	0.2

y = 0.0132 * x + 9.6038E-004
R = 1.0000
DL = 0.01466 ppb
BEC = 0.0729 ppb

Weight: <None>
Min Conc: <None>

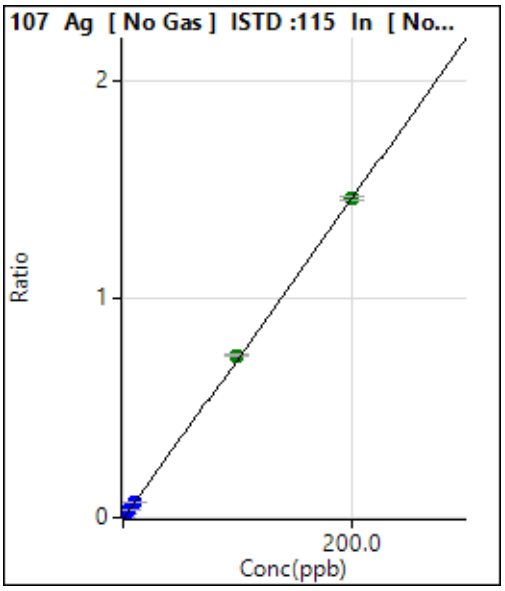


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	30.00	0.0000	P	57.5	
2	☐	2.000	1.986	15282.29	0.0052	P	0.6	-0.7
3	☐	5.000	4.957	38903.83	0.0130	P	1.9	-0.9
4	☐	10.000	10.012	77581.99	0.0262	P	2.5	0.1
5	☐	100.000	100.001	756689.18	0.2617	P	0.1	0.0
6	☑	200.000		1687039.97	0.5974	A	1.4	

y = 0.0026 * x + 1.0179E-005
R = 1.0000
DL = 0.006714 ppb
BEC = 0.00389 ppb

Weight: <None>
Min Conc: <None>

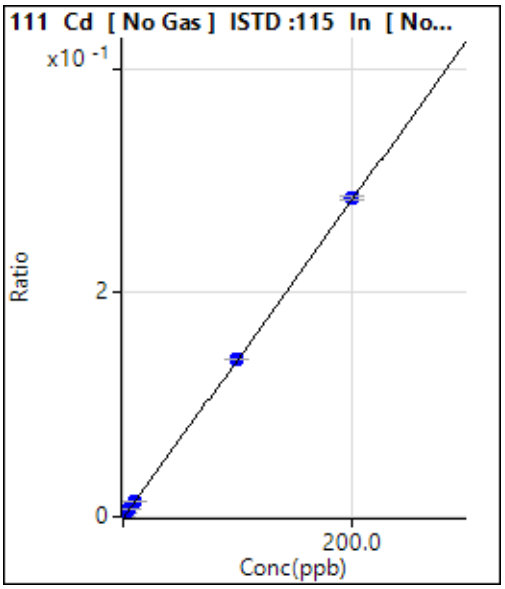
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	610.02	0.0002	P	16.4	
2	☐	2.000	1.914	41739.53	0.0142	P	1.2	-4.3
3	☐	5.000	4.701	103751.82	0.0346	P	3.0	-6.0
4	☐	10.000	9.563	207857.65	0.0702	P	1.0	-4.4
5	☐	100.000	101.363	2146398.98	0.7423	A	0.9	1.4
6	☐	200.000	199.349	4121936.09	1.4596	A	0.8	-0.3

y = 0.0073 * x + 2.0775E-004
R = 1.0000
DL = 0.01399 ppb
BEC = 0.02838 ppb

Weight: <None>
Min Conc: <None>

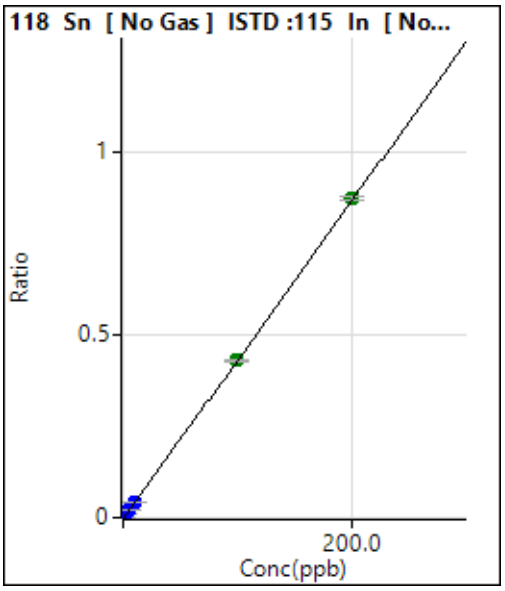


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	86.6	
2	☐	2.000	1.962	8172.68	0.0028	P	2.4	-1.9
3	☐	5.000	4.954	21070.36	0.0070	P	0.8	-0.9
4	☐	10.000	9.960	41836.51	0.0141	P	0.5	-0.4
5	☐	100.000	98.804	405325.23	0.1402	P	0.4	-1.2
6	☐	200.000	200.602	803694.23	0.2846	P	0.7	0.3

y = 0.0014 * x + 2.2508E-006
R = 1.0000
DL = 0.004123 ppb
BEC = 0.001587 ppb

Weight: <None>
Min Conc: <None>

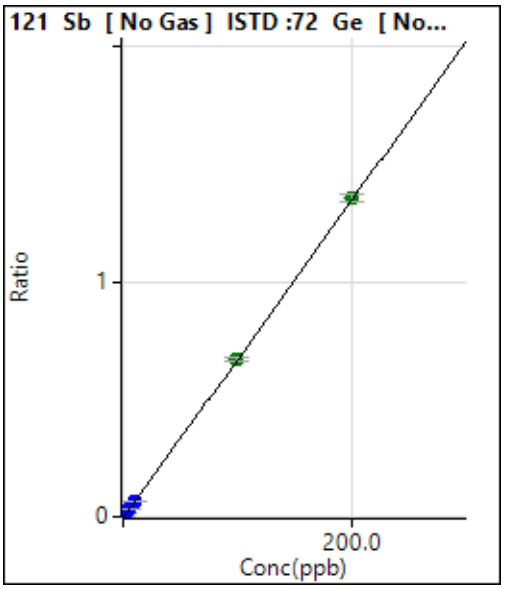
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1403.48	0.0005	P	7.6	
2	☐	2.000	1.819	24613.35	0.0084	P	2.2	-9.1
3	☐	5.000	4.465	59618.46	0.0199	P	2.1	-10.7
4	☐	10.000	9.110	118699.06	0.0401	P	1.8	-8.9
5	☐	100.000	98.568	1240955.63	0.4292	A	0.6	-1.4
6	☐	200.000	200.776	2467263.97	0.8737	A	0.6	0.4

y = 0.0043 * x + 4.7757E-004
R = 1.0000
DL = 0.02491 ppb
BEC = 0.1098 ppb

Weight: <None>
Min Conc: <None>

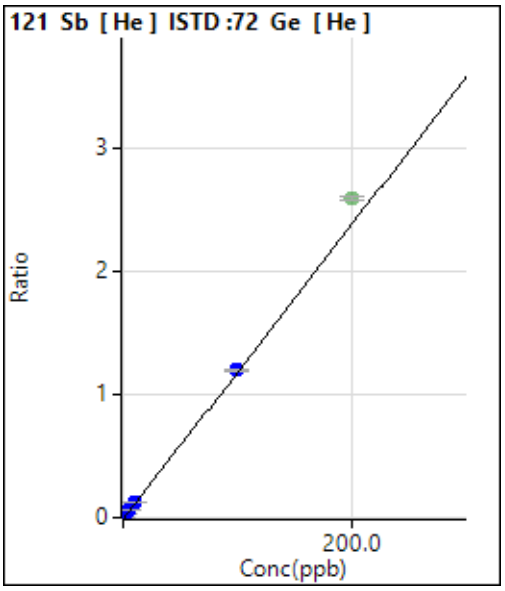


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	550.02	0.0002	P	16.2	
2	☐	2.000	1.883	34154.73	0.0129	P	1.2	-5.8
3	☐	5.000	4.689	84574.79	0.0319	P	0.9	-6.2
4	☐	10.000	9.430	169940.20	0.0640	P	0.8	-5.7
5	☐	100.000	98.971	1753740.91	0.6694	A	1.6	-1.0
6	☐	200.000	200.552	3452392.24	1.3561	A	2.1	0.3

y = 0.0068 * x + 2.0504E-004
R = 1.0000
DL = 0.0147 ppb
BEC = 0.03033 ppb

Weight: <None>
Min Conc: <None>

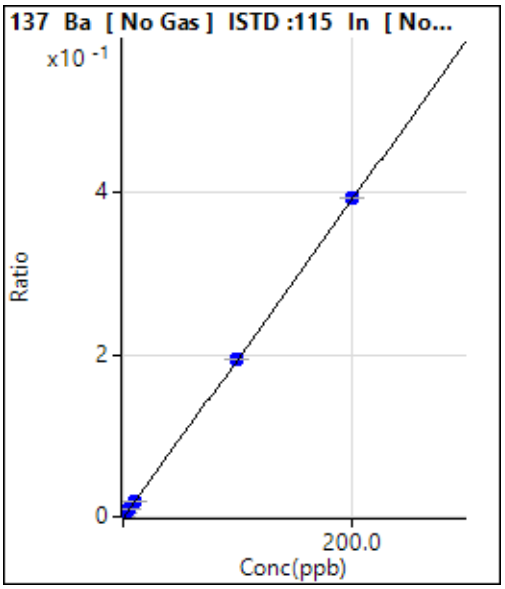
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	260.01	0.0004	P	11.4	
2	☐	2.000	1.988	16026.72	0.0242	P	2.0	-0.6
3	☐	5.000	5.130	40834.01	0.0618	P	0.5	2.6
4	☐	10.000	10.067	79939.39	0.1208	P	1.2	0.7
5	☐	100.000	99.987	790266.71	1.1964	P	1.0	0.0
6	☑	200.000		1662357.32	2.5936	A	0.8	

y = 0.0120 * x + 3.9543E-004
R = 1.0000
DL = 0.0113 ppb
BEC = 0.03306 ppb

Weight: <None>
Min Conc: <None>

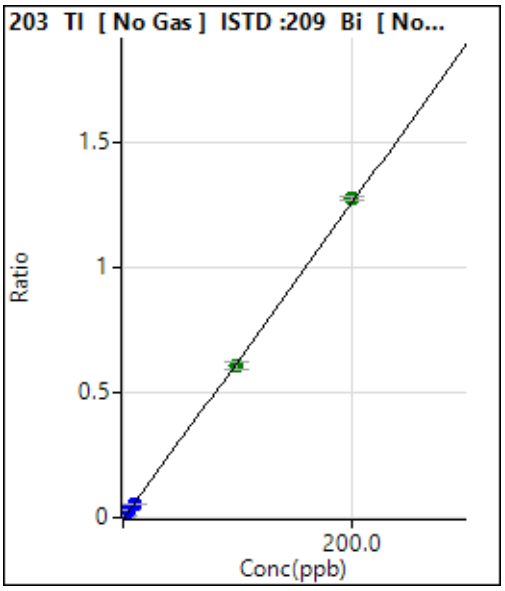


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	460.02	0.0002	P	8.6	
2	☐	2.000	1.985	11882.28	0.0040	P	2.3	-0.7
3	☐	5.000	4.741	28324.58	0.0095	P	2.5	-5.2
4	☐	10.000	9.676	56626.81	0.0191	P	1.5	-3.2
5	☐	100.000	99.151	562551.02	0.1946	P	0.6	-0.8
6	☐	200.000	200.447	1110277.38	0.3932	P	0.1	0.2

y = 0.0020 * x + 1.5632E-004
R = 1.0000
DL = 0.02066 ppb
BEC = 0.07973 ppb

Weight: <None>
Min Conc: <None>

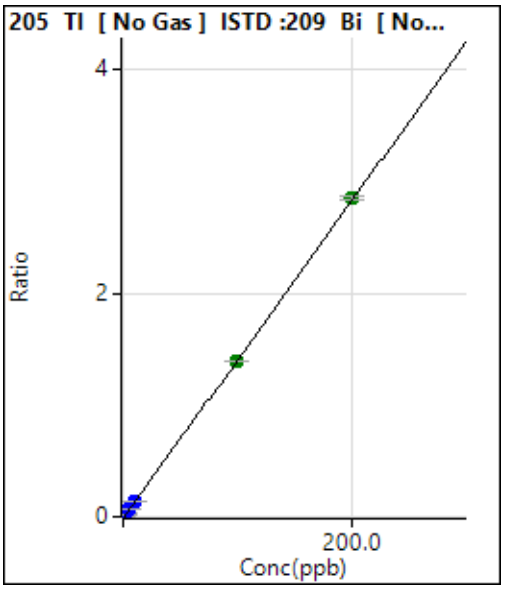
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	30.00	0.0000	P	57.8	
2	☐	2.000	1.728	27433.86	0.0110	P	1.0	-13.6
3	☐	5.000	4.388	69358.77	0.0278	P	0.8	-12.2
4	☐	10.000	8.760	139644.33	0.0555	P	1.5	-12.4
5	☐	100.000	96.145	1488070.92	0.6092	A	3.8	-3.9
6	☐	200.000	202.007	2985107.77	1.2800	A	1.6	1.0

y = 0.0063 * x + 1.2208E-005
R = 0.9997
DL = 0.003341 ppb
BEC = 0.001927 ppb

Weight: <None>
Min Conc: <None>

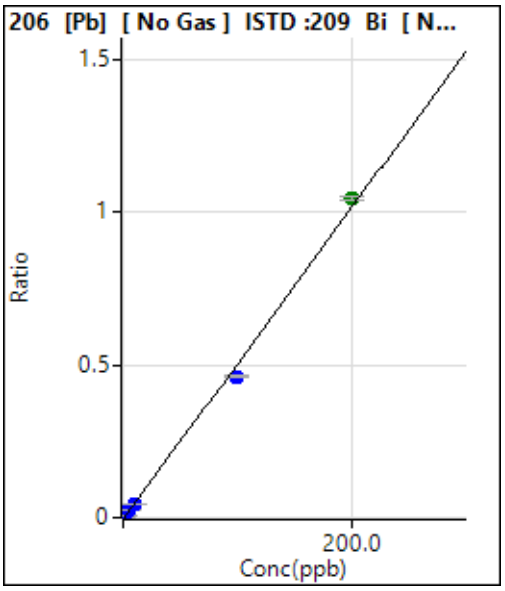


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	56.67	0.0000	P	10.3	
2	☐	2.000	1.812	64386.00	0.0257	P	1.9	-9.4
3	☐	5.000	4.640	164237.04	0.0659	P	0.4	-7.2
4	☐	10.000	9.335	333258.13	0.1325	P	1.1	-6.6
5	☐	100.000	98.330	3409236.61	1.3953	A	0.3	-1.7
6	☐	200.000	200.879	6648002.82	2.8504	A	1.0	0.4

y = 0.0142 * x + 2.3056E-005
R = 1.0000
DL = 0.0005012 ppb
BEC = 0.001625 ppb

Weight: <None>
Min Conc: <None>

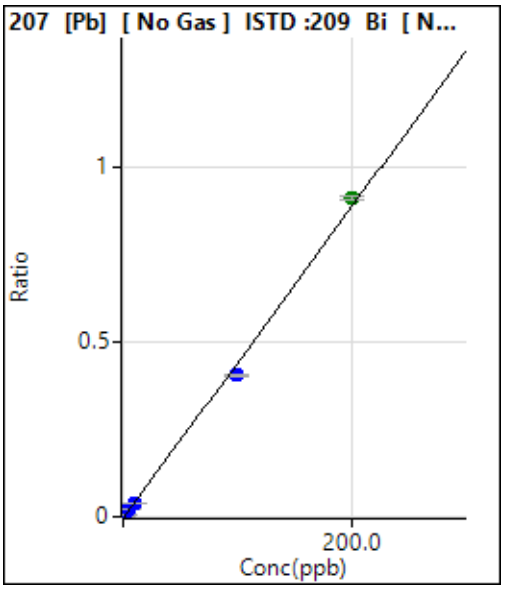
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	333.34	0.0001	P	27.2	
2	☐	2.000	1.755	22737.79	0.0091	P	2.0	-12.3
3	☐	5.000	4.454	56979.92	0.0229	P	1.4	-10.9
4	☐	10.000	9.063	116618.92	0.0464	P	0.8	-9.4
5	☐	100.000	90.338	1126063.24	0.4609	P	0.9	-9.7
6	☐	200.000	204.894	2437566.79	1.0452	A	1.2	2.4

y = 0.0051 * x + 1.3560E-004
R = 0.9984
DL = 0.02169 ppb
BEC = 0.02659 ppb

Weight: <None>
Min Conc: <None>

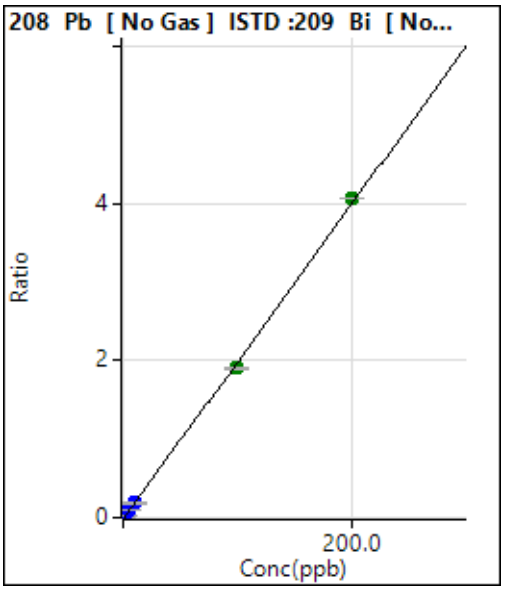


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	303.34	0.0001	P	26.8	
2	☐	2.000	1.758	19862.85	0.0079	P	1.6	-12.1
3	☐	5.000	4.467	49812.97	0.0200	P	1.2	-10.7
4	☐	10.000	9.060	101605.69	0.0404	P	1.7	-9.4
5	☐	100.000	90.714	985408.79	0.4033	P	0.6	-9.3
6	☐	200.000	204.706	2122367.62	0.9100	A	0.8	2.4

y = 0.0044 * x + 1.2340E-004
R = 0.9985
DL = 0.02233 ppb
BEC = 0.02776 ppb

Weight: <None>
Min Conc: <None>

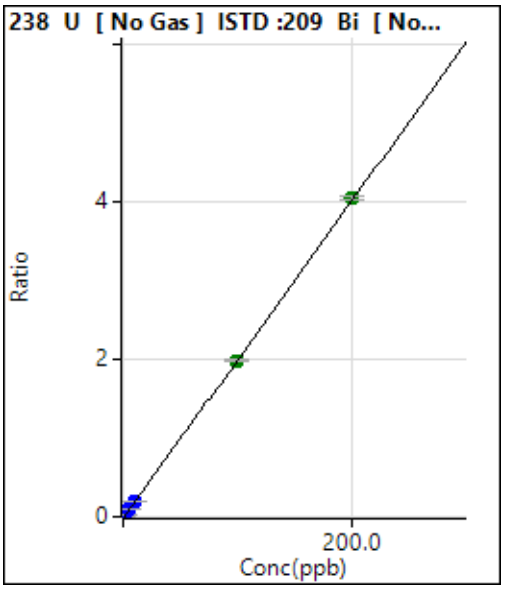
Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1456.73	0.0006	P	16.4	
2	☐	2.000	1.783	91095.31	0.0364	P	0.9	-10.8
3	☐	5.000	4.545	229078.83	0.0919	P	0.9	-9.1
4	☐	10.000	9.143	463405.32	0.1842	P	0.8	-8.6
5	☐	100.000	94.807	4653264.85	1.9047	A	1.3	-5.2
6	☐	200.000	202.653	9494265.59	4.0707	A	0.5	1.3

y = 0.0201 * x + 5.9261E-004
R = 0.9995
DL = 0.01453 ppb
BEC = 0.02951 ppb

Weight: <None>
Min Conc: <None>

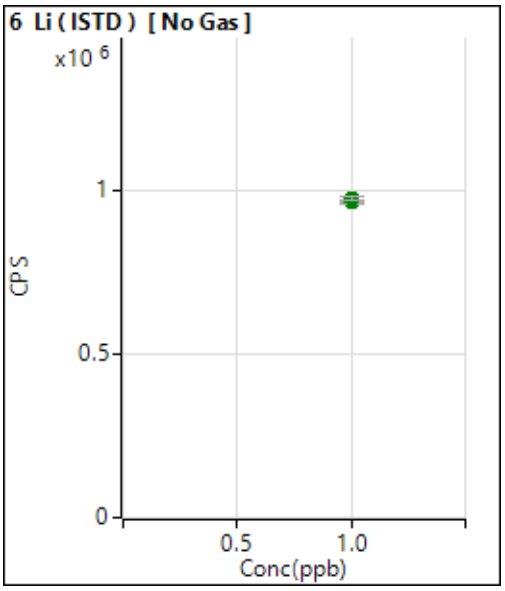


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	30.00	0.0000	P	33.2	
2	☐	2.000	1.788	90170.98	0.0360	P	0.1	-10.6
3	☐	5.000	4.591	230704.39	0.0925	P	0.8	-8.2
4	☐	10.000	9.283	470445.41	0.1870	P	0.5	-7.2
5	☐	100.000	98.171	4831913.99	1.9778	A	1.3	-1.8
6	☐	200.000	200.963	9442764.23	4.0487	A	0.8	0.5

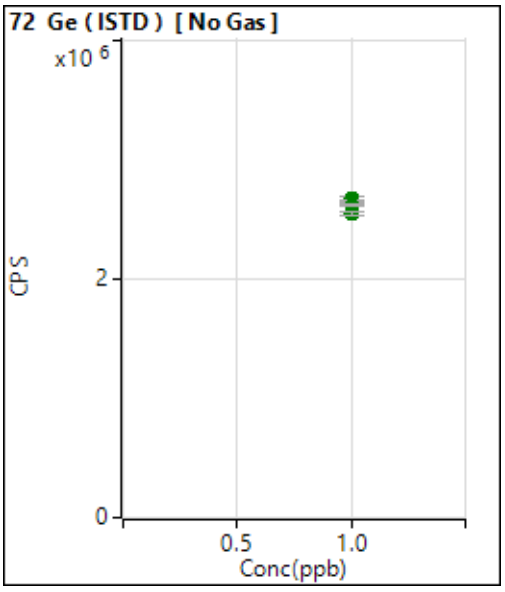
y = 0.0201 * x + 1.2203E-005
R = 0.9999
DL = 0.000604 ppb
BEC = 0.0006057 ppb

Weight: <None>
Min Conc: <None>

Calibration for 022_ICV.d

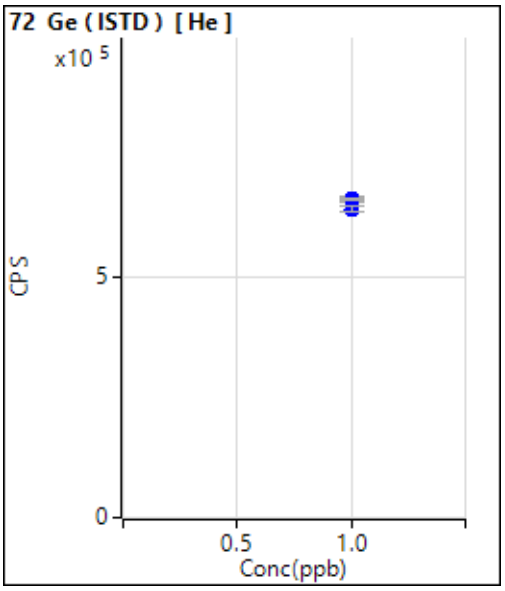


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		973852.57		A	1.0	
2	☐	1.000		961134.32		A	0.4	
3	☐	1.000		964843.72		A	0.4	
4	☐	1.000		962277.35		A	1.5	
5	☐	1.000		963971.46		A	1.3	
6	☐	1.000		973684.89		A	0.9	

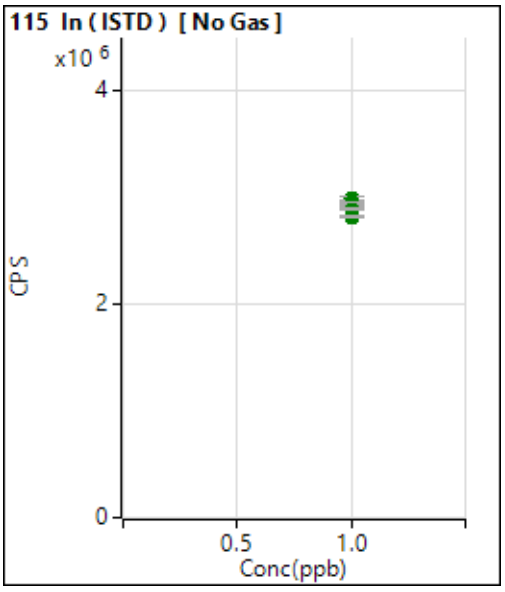


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2680899.65		A	0.6	
2	☐	1.000		2639898.76		A	0.9	
3	☐	1.000		2650531.53		A	0.3	
4	☐	1.000		2656779.75		A	1.0	
5	☐	1.000		2620173.09		A	0.6	
6	☐	1.000		2546194.55		A	1.3	

Calibration for 022_ICV.d

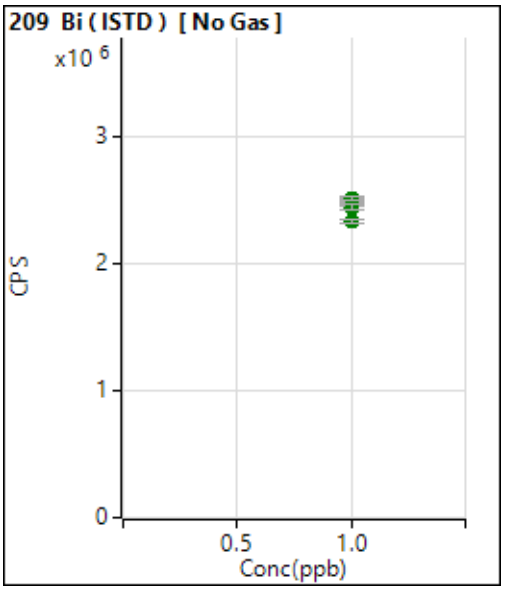


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		657482.18		P	0.4	
2	☐	1.000		662975.93		P	0.2	
3	☐	1.000		661147.59		P	0.4	
4	☐	1.000		661636.74		P	1.2	
5	☐	1.000		660575.08		P	0.7	
6	☐	1.000		640902.97		P	1.4	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2941541.56		A	1.8	
2	☐	1.000		2934786.00		A	0.7	
3	☐	1.000		2996984.88		A	1.0	
4	☐	1.000		2960323.59		A	0.6	
5	☐	1.000		2891563.56		A	0.5	
6	☐	1.000		2824021.70		A	0.5	

Calibration for 022_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2457983.87		A	0.1	
2	☐	1.000		2502408.92		A	1.0	
3	☐	1.000		2493699.28		A	1.7	
4	☐	1.000		2515456.16		A	0.7	
5	☐	1.000		2443436.99		A	1.9	
6	☐	1.000		2332437.72		A	1.1	

Sample Report

Sample Table

Sample Name	LLICV2
Data File Name	023LCV2.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T12:51:17-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	015CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	1.944	1.944	0.83	83837	0.00	2	
Be	9	1	No Gas	1.931	1.931	1.22	7834	0.02	2	
V	51	2	He	1.778	1.778	3.71	14081	0.01	2	
Cr	52	2	He	1.872	1.872	1.42	16373	0.01	2	
Fe	56	2	He	210.220	210.220	1.18	1567575	0.01	200	
Se	78	2	He	1.997	1.997	14.77	312	0.64	2	
As	75	2	He	1.961	1.961	3.52	2525	0.08	2	
Ca	44	2	He	190.718	190.718	4.89	7462	2.56	200	
Na	23	2	He	179.441	179.441	1.73	322796	0.06	200	
Mg	24	2	He	183.373	183.373	0.73	119264	0.15	200	
K	39	2	He	185.655	185.655	1.44	190213	0.10	200	
Mn	55	2	He	2.001	2.001	1.94	10691	0.02	2	
Co	59	2	He	1.908	1.908	1.72	26432	0.01	2	
Ni	60	2	He	2.091	2.091	2.18	7546	0.03	2	
Cu	63	2	He	1.923	1.923	4.01	20282	0.01	2	
Zn	66	2	He	1.720	1.720	3.87	3704	0.05	2	
Al	27	2	He	1.312	1.312	17.05	1470	0.09	2	NewName Main CR1 Failed
B	11	1	No Gas	17.304	17.304	5.63	49454	0.03	10	NewName Main CR1 Failed
Al	27	1	No Gas	1.810	1.810	3.76	95839	0.00	2	
Si	28	1	No Gas	14.245	14.245	2.56	543442	0.00	10	NewName Main CR1 Failed
Ag	107	1	No Gas	1.864	1.864	2.15	40539	0.00	2	
Cd	111	1	No Gas	1.947	1.947	1.22	8089	0.02	2	
Sr	88	1	No Gas	1.889	1.889	1.26	75647	0.00	2	
Mo	95	1	No Gas	2.024	2.024	2.93	15536	0.01	2	
Sn	118	1	No Gas	1.807	1.807	2.65	24403	0.01	2	
Sb	121	1	No Gas	1.866	1.866	4.20	33359	0.01	2	
Ba	137	1	No Gas	1.932	1.932	2.36	11545	0.02	2	
Tl	205	1	No Gas	1.874	1.874	1.54	65951	0.00	2	
Tl	203	1	No Gas	1.724	1.724	2.81	27096	0.01	2	
Pb	208	1	No Gas	1.812	1.812	1.72	91617	0.00	2	
U	238	1	No Gas	1.810	1.810	2.04	90359	0.00	2	
Ca	43	2	He	235.235	235.235	29.82	513	45.82	200	
Sb	121	2	He	2.035	2.035	1.22	16477	0.01	2	
Ti	47	2	He	1.938	1.938	4.96	443	0.44	200	
Cu	63	1	No Gas	1.931	1.931	1.40	35807	0.01	2	
Se	82	1	No Gas	2.922	2.922	8.53	476	0.61	2	NewName Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1001559	0.95	973853	102.84	70	120	
Ge	72	2	He	666081	0.29	657482	101.31	70	120	
Ge	72	1	No Gas	2602036	0.08	2680900	97.06	70	120	
In	115	1	No Gas	2927006	1.17	2941542	99.51	70	120	
Bi	209	1	No Gas	2478103	1.67	2457984	100.82	70	120	

Sample Report

Sample Table

Sample Name	LLICV5
Data File Name	024LCV5.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T12:53:10-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	015CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	4.844	4.844	1.70	127929	0.00	5	
Be	9	1	No Gas	4.724	4.724	0.62	19312	0.02	5	
V	51	2	He	4.923	4.923	0.64	35090	0.01	5	
Cr	52	2	He	4.864	4.864	1.92	41156	0.01	5	
Fe	56	2	He	515.969	515.969	0.93	3804057	0.01	500	
Se	78	2	He	5.321	5.321	10.85	612	0.87	5	
As	75	2	He	5.024	5.024	2.84	6253	0.08	5	
Ca	44	2	He	495.552	495.552	1.45	17852	2.78	500	
Na	23	2	He	465.537	465.537	0.55	648586	0.07	500	
Mg	24	2	He	472.053	472.053	0.67	303798	0.16	500	
K	39	2	He	469.837	469.837	0.19	384084	0.12	500	
Mn	55	2	He	5.030	5.030	1.57	25881	0.02	5	
Co	59	2	He	4.833	4.833	0.20	66432	0.01	5	
Ni	60	2	He	5.151	5.151	3.01	18042	0.03	5	
Cu	63	2	He	4.857	4.857	2.43	48781	0.01	5	
Zn	66	2	He	5.039	5.039	4.44	9103	0.06	5	
Al	27	2	He	4.925	4.925	4.73	2487	0.20	5	
B	11	1	No Gas	26.401	26.401	2.54	72201	0.04	25	
Al	27	1	No Gas	4.342	4.342	3.39	143306	0.00	5	
Si	28	1	No Gas	27.189	27.189	1.96	664893	0.00	25	
Ag	107	1	No Gas	4.810	4.810	0.73	104937	0.00	5	
Cd	111	1	No Gas	4.914	4.914	1.33	20656	0.02	5	
Sr	88	1	No Gas	4.820	4.820	1.47	190907	0.00	5	
Mo	95	1	No Gas	4.894	4.894	1.24	37971	0.01	5	
Sn	118	1	No Gas	4.425	4.425	0.37	58420	0.01	5	
Sb	121	1	No Gas	4.775	4.775	2.68	86102	0.01	5	
Ba	137	1	No Gas	4.831	4.831	2.14	28522	0.02	5	
Tl	205	1	No Gas	4.675	4.675	2.60	164744	0.00	5	
Tl	203	1	No Gas	4.491	4.491	1.76	70670	0.01	5	
Pb	208	1	No Gas	4.605	4.605	0.95	231058	0.00	5	
U	238	1	No Gas	4.605	4.605	1.75	230369	0.00	5	
Ca	43	2	He	460.898	460.898	14.65	967	47.68	500	
Sb	121	2	He	5.147	5.147	3.16	40965	0.01	5	
Ti	47	2	He	5.072	5.072	3.29	1147	0.44	5	
Cu	63	1	No Gas	4.834	4.834	0.68	87742	0.01	5	
Se	82	1	No Gas	5.032	5.032	28.47	1002	0.50	5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1011266	1.83	973853	103.84	70	120	
Ge	72	2	He	661171	0.81	657482	100.56	70	120	
Ge	72	1	No Gas	2650404	0.93	2680900	98.86	70	120	

Sample Report

In	115	1	No Gas	2962112	1.30	2941542	100.70	70	120	
Bi	209	1	No Gas	2482532	0.19	2457984	101.00	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	025_ICB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T12:55:03-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.083	21.0	54786	0.7	0.5	
Be	9	1	No Gas	0.005	79.6	43	37.1	0.5	
V	51	2	He	-0.122	-0.6	1199	0.8	2.5	
Cr	52	2	He	0.269	11.0	2857	8.9	2.5	
Fe	56	2	He	1.634	2.6	21868	1.5	100	
Se	78	2	He	0.071	182.0	132	9.2	1	
As	75	2	He	-0.011	-168.7	92	23.2	2.5	
Ca	44	2	He	-7.583	-10.1	600	4.4	100	
Na	23	2	He	-4.089	-23.2	107761	0.5	100	
Mg	24	2	He	0.458	21.2	880	7.1	100	
K	39	2	He	0.358	599.5	60288	2.5	100	
Mn	55	2	He	0.182	10.0	1417	6.9	2.5	
Co	59	2	He	0.006	48.5	107	35.5	2.5	
Ni	60	2	He	0.081	33.7	547	17.4	2.5	
Cu	63	2	He	0.279	5.3	3994	4.0	1	
Zn	66	2	He	0.566	24.8	1757	13.2	2.5	
Al	27	2	He	-1.549	-23.9	633	16.4	5	
B	11	1	No Gas	5.171	4.0	19497	2.2	0.5	ICB Main CR1 Failed
Al	27	1	No Gas	-1.259	-1.4	41295	0.7	5	
Si	28	1	No Gas	-2.806	-21.6	397641	0.6	10	
Ag	107	1	No Gas	0.014	26.3	897	8.9	2.5	
Cd	111	1	No Gas	0.003	72.8	20	50.0	1	
Sr	88	1	No Gas	-0.034	-7.5	1490	5.7	2.5	
Mo	95	1	No Gas	0.015	24.0	140	18.9	2.5	
Sn	118	1	No Gas	0.114	3.2	2797	2.5	5	
Sb	121	1	No Gas	0.014	52.0	777	16.6	2.5	
Ba	137	1	No Gas	0.084	43.9	920	22.6	2.5	
Tl	205	1	No Gas	0.006	5.4	273	4.2	1	
Tl	203	1	No Gas	0.006	26.0	130	20.4	1	
Pb	208	1	No Gas	0.007	25.4	1837	5.6	2.5	
U	238	1	No Gas	0.002	28.5	120	22.0	2.5	
Ca	43	2	He	-1.430	-356.5	30	33.3	100	
Sb	121	2	He	0.016	45.8	380	14.7	2.5	
Ti	47	2	He	0.076	59.7	20	50.0	2.5	
Se	82	1	No Gas	0.165	853.1	-186	-180.2	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	974312	0.31	973853	100.05	70	120	
Ge	72	2	He	648334	0.53	657482	98.61	70	120	
Ge	72	1	No Gas	2590678	0.76	2680900	96.63	70	120	
In	115	1	No Gas	2871731	0.88	2941542	97.63	70	120	
Bi	209	1	No Gas	2485313	0.76	2457984	101.11	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	026ICSA.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T12:57:59-05:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.452	10.4	58253	1.4	0	ICSA Main CR1 Failed
Be	9	1	No Gas	0.004	56.5	37	20.8	0	ICSA Main CR1 Failed
V	51	2	He	-0.087	-6.4	1373	2.3	0	ICSA Main CR1 Failed
Cr	52	2	He	1.462	2.8	12106	3.0	0	ICSA Main CR1 Failed
Fe	56	2	He	98310.370	0.4	681388737	0.7	0	
Se	78	2	He	0.108	90.3	130	6.7	0	ICSA Main CR1 Failed
As	75	2	He	0.026	49.6	131	11.7	0	ICSA Main CR1 Failed
Ca	44	2	He	104277.293	1.1	3368730	0.7	0	
Na	23	2	He	100422.168	0.4	108686535	0.5	0	
Mg	24	2	He	100006.426	0.9	60547546	1.0	0	
K	39	2	He	99450.324	0.8	64471411	1.0	0	
Mn	55	2	He	0.286	2.6	1853	1.9	0	ICSA Main CR1 Failed
Co	59	2	He	0.110	3.9	1453	4.2	0	ICSA Main CR1 Failed
Ni	60	2	He	0.404	4.0	1577	3.5	0	ICSA Main CR1 Failed
Cu	63	2	He	0.051	6.1	1747	1.2	0	ICSA Main CR1 Failed
Zn	66	2	He	0.304	17.4	1283	5.8	0	ICSA Main CR1 Failed
Al	27	2	He	96261.780	0.8	25798855	0.8	0	
B	11	1	No Gas	6.974	4.2	23022	3.2	0	
Al	27	1	No Gas	92093.765	0.9	1577988883	0.7	0	
Si	28	1	No Gas	15.867	0.9	538840	0.7	0	ICSA Main CR1 Failed
Ag	107	1	No Gas	0.003	89.1	617	6.1	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	1.010	4.8	3897	6.2	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	1.148	4.0	43655	3.3	0	ICSA Main CR1 Failed
Mo	95	1	No Gas	2125.585	1.6	15092979	0.1	0	
Sn	118	1	No Gas	0.022	67.6	1557	10.5	0	ICSA Main CR1 Failed
Sb	121	1	No Gas	0.092	10.7	2084	8.2	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	0.533	5.0	3260	3.5	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	0.004	65.6	190	47.4	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	0.004	55.6	87	37.1	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.041	11.6	3244	6.8	0	ICSA Main CR1 Failed
U	238	1	No Gas	0.018	12.8	853	11.5	0	ICSA Main CR1 Failed
Ca	43	2	He	93994.262	0.8	179322	0.8	0	
Sb	121	2	He	0.088	8.2	903	5.5	0	ICSA Main CR1 Failed
Ti	47	2	He	2035.762	0.9	432491	1.0	0	
Se	82	1	No Gas	-0.873	-158.4	-424	-76.3	0	ICSA Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	944481	1.41	973853	96.98	70	120	
Ge	72	2	He	623207	0.47	657482	94.79	70	120	
Ge	72	1	No Gas	2516523	0.58	2680900	93.87	70	120	
In	115	1	No Gas	2713957	1.52	2941542	92.26	70	120	
Bi	209	1	No Gas	2291646	0.99	2457984	93.23	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	027ICSB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T12:59:54-05:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	015CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	94.176	2.292	1335156	2.49	100	94.2	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	91.797	0.656	342358	0.40	100	91.8	80	120	
V	51	2	He	97.975	1.372	617383	0.65	100	98.0	80	120	
Cr	52	2	He	94.013	1.483	732819	0.70	100	94.0	80	120	
Fe	56	2	He	106295.757	0.710	731429616	0.14	100	106295.8	80	120	ICSB Main CR1 Failed
Se	78	2	He	97.343	1.214	8409	0.42	100	97.3	80	120	
As	75	2	He	96.521	1.402	110586	0.81	100	96.5	80	120	
Ca	44	2	He	112598.879	0.875	3611455	0.71	100	112598.9	80	120	
Na	23	2	He	108015.358	0.968	116054372	0.35	100	108015.4	80	120	ICSB Main CR1 Failed
Mg	24	2	He	107781.040	0.734	64785099	0.33	100	107781.0	80	120	ICSB Main CR1 Failed
K	39	2	He	106849.685	0.971	68765632	0.70	100	106849.7	80	120	ICSB Main CR1 Failed
Mn	55	2	He	96.396	0.655	455269	0.72	100	96.4	80	120	
Co	59	2	He	94.602	3.413	1216321	3.20	100	94.6	80	120	
Ni	60	2	He	94.723	1.550	306002	0.94	100	94.7	80	120	
Cu	63	2	He	89.457	0.838	818830	0.77	100	89.5	80	120	
Zn	66	2	He	96.458	1.884	148395	1.31	100	96.5	80	120	
Al	27	2	He	94442.272	0.559	25129445	0.24	100	94442.3	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	479.528	0.706	1079344	0.70	100	479.5	80	120	
Al	27	1	No Gas	89210.858	0.710	1511516564	1.34	100	89210.9	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	491.497	2.836	4374905	2.63	100	491.5	80	120	
Ag	107	1	No Gas	92.316	2.839	1847446	1.54	100	92.3	80	120	
Cd	111	1	No Gas	94.508	1.646	366458	1.20	100	94.5	80	120	
Sr	88	1	No Gas	98.178	0.917	3537616	0.97	100	98.2	80	120	
Mo	95	1	No Gas	2183.310	0.767	15615801	1.16	100	2183.3	80	120	ICSB Main CR1 Failed
Sn	118	1	No Gas	89.144	0.945	1060953	0.49	100	89.1	80	120	
Sb	121	1	No Gas	95.454	1.667	1606211	0.58	100	95.5	80	120	
Ba	137	1	No Gas	96.348	1.761	516707	1.20	100	96.3	80	120	
Tl	205	1	No Gas	95.860	0.415	3132837	0.25	100	95.9	80	120	
Tl	203	1	No Gas	90.989	0.264	1327841	0.50	100	91.0	80	120	
Pb	208	1	No Gas	91.436	0.469	4230861	0.54	100	91.4	80	120	
U	238	1	No Gas	98.056	0.414	4549840	0.69	100	98.1	80	120	
Ca	43	2	He	101917.360	1.182	193039	1.00	100	101917.4	80	120	ICSB Main CR1 Failed
Sb	121	2	He	96.539	0.763	714714	0.44	100	96.5	80	120	
Ti	47	2	He	2093.280	0.925	441510	0.63	100	2093.3	80	120	ICSB Main CR1 Failed
Cu	63	1	No Gas	93.799	0.528	1557514	1.15	100	93.8	80	120	
Se	82	1	No Gas	95.489	2.407	21789	3.32	100	95.5	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	923619	0.38	973853	94.84	70	120	
Ge	72	2	He	618746	0.78	657482	94.11	70	120	
Ge	72	1	No Gas	2488352	1.14	2680900	92.82	70	120	
In	115	1	No Gas	2733375	1.28	2941542	92.92	70	120	
Bi	209	1	No Gas	2303136	0.29	2457984	93.70	70	120	

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	159CALB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T19:54:04-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	44734	0.00
Be	9	1	No Gas	3	2598.08
V	51	2	He	2445	0.14
Cr	52	2	He	553	3.22
Fe	56	2	He	10945	0.03
Se	78	2	He	133	6.94
As	75	2	He	128	11.24
Ca	44	2	He	467	1.86
Na	23	2	He	108453	0.00
Mg	24	2	He	360	4.82
K	39	2	He	54103	0.00
Mn	55	2	He	487	0.97
Co	59	2	He	30	293.97
Ni	60	2	He	1743	0.18
Cu	63	2	He	5214	0.07
Zn	66	2	He	333	1.87
Al	27	2	He	803	0.18
B	11	1	No Gas	5409	0.10
Al	27	1	No Gas	48923	0.00
Si	28	1	No Gas	344820	0.00
Ag	107	1	No Gas	660	1.40
Cd	111	1	No Gas	10	0.00
Sr	88	1	No Gas	1980	0.37
Mo	95	1	No Gas	47	140.28
Sn	118	1	No Gas	657	2.15
Sb	121	1	No Gas	383	5.11
Ba	137	1	No Gas	237	10.91
Tl	205	1	No Gas	63	87.55
Tl	203	1	No Gas	40	125.00
Pb	208	1	No Gas	1017	0.15
U	238	1	No Gas	3	5196.15
Ca	43	2	He	23	590.43
Sb	121	2	He	180	16.33
Cu	63	1	No Gas	8770	0.05

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	6	1	No Gas	839053	2.59

Calibration Blank Report

Ge	72	2	He	589070	1.37
Ge	72	1	No Gas	2387222	0.39
In	115	1	No Gas	2718732	1.47
Bi	209	1	No Gas	2414089	1.61

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	160CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T19:56:01-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	159CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	6415	0.01
V	51	2	He	14432	0.01
Cr	52	2	He	14798	0.02
Fe	56	2	He	1376865	0.00
Se	78	2	He	279	2.82
As	75	2	He	2202	0.20
Ca	44	2	He	6512	0.08
Na	23	2	He	304340	0.00
Mg	24	2	He	109132	0.00
K	39	2	He	167783	0.00
Mn	55	2	He	9594	0.05
Co	59	2	He	23447	0.01
Ni	60	2	He	11221	0.02
Cu	63	2	He	35466	0.00
Zn	66	2	He	3614	0.25
Al	27	2	He	1340	0.17
B	11	1	No Gas	23678	0.01
Al	27	1	No Gas	82350	0.00
Si	28	1	No Gas	418219	0.00
Ag	107	1	No Gas	37828	0.00
Cd	111	1	No Gas	7419	0.04
Sr	88	1	No Gas	68726	0.00
Mo	95	1	No Gas	13440	0.01
Sn	118	1	No Gas	21969	0.01
Sb	121	1	No Gas	30436	0.00
Ba	137	1	No Gas	10688	0.00
Tl	205	1	No Gas	63699	0.00
Tl	203	1	No Gas	26612	0.01
Pb	208	1	No Gas	88576	0.00
U	238	1	No Gas	88629	0.00
Ca	43	2	He	453	6.48
Sb	121	2	He	14148	0.03
Cu	63	1	No Gas	60220	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	829475	2.06	839053	98.86	70	120	
Ge	72	2	He	595842	0.25	589070	101.15	70	120	
Ge	72	1	No Gas	2395305	0.69	2387222	100.34	70	120	

Calibration Standard Report

In	115	1	No Gas	2737850	2.06	2718732	100.70	70	120	
Bi	209	1	No Gas	2431866	0.73	2414089	100.74	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	161CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T19:57:59-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	159CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	16156	0.01
V	51	2	He	32705	0.01
Cr	52	2	He	37218	0.00
Fe	56	2	He	3385764	0.00
Se	78	2	He	537	1.13
As	75	2	He	5446	0.02
Ca	44	2	He	15496	0.04
Na	23	2	He	596283	0.00
Mg	24	2	He	272523	0.00
K	39	2	He	335852	0.00
Mn	55	2	He	23223	0.00
Co	59	2	He	59580	0.00
Ni	60	2	He	16343	0.01
Cu	63	2	He	43918	0.00
Zn	66	2	He	7749	0.03
Al	27	2	He	2127	0.16
B	11	1	No Gas	51352	0.00
Al	27	1	No Gas	122052	0.00
Si	28	1	No Gas	522961	0.00
Ag	107	1	No Gas	93107	0.00
Cd	111	1	No Gas	18987	0.01
Sr	88	1	No Gas	166624	0.00
Mo	95	1	No Gas	33827	0.01
Sn	118	1	No Gas	54038	0.00
Sb	121	1	No Gas	76764	0.00
Ba	137	1	No Gas	26387	0.01
Tl	205	1	No Gas	161475	0.00
Tl	203	1	No Gas	67462	0.00
Pb	208	1	No Gas	221253	0.00
U	238	1	No Gas	222079	0.00
Ca	43	2	He	837	0.50
Sb	121	2	He	34963	0.00
Cu	63	1	No Gas	75188	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	832337	2.58	839053	99.20	70	120	
Ge	72	2	He	593657	0.48	589070	100.78	70	120	
Ge	72	1	No Gas	2379728	1.56	2387222	99.69	70	120	

Calibration Standard Report

In	115	1	No Gas	2756567	0.35	2718732	101.39	70	120	
Bi	209	1	No Gas	2475669	0.91	2414089	102.55	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	162CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T19:59:56-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	159CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	32598	0.00
V	51	2	He	61532	0.00
Cr	52	2	He	71875	0.00
Fe	56	2	He	6479883	0.00
Se	78	2	He	867	0.66
As	75	2	He	10960	0.02
Ca	44	2	He	29545	0.01
Na	23	2	He	1181585	0.00
Mg	24	2	He	535843	0.00
K	39	2	He	608294	0.00
Mn	55	2	He	44670	0.00
Co	59	2	He	116215	0.00
Ni	60	2	He	31908	0.01
Cu	63	2	He	85763	0.00
Zn	66	2	He	15109	0.04
Al	27	2	He	3397	0.09
B	11	1	No Gas	99158	0.00
Al	27	1	No Gas	194128	0.00
Si	28	1	No Gas	711230	0.00
Ag	107	1	No Gas	186166	0.00
Cd	111	1	No Gas	38199	0.01
Sr	88	1	No Gas	335661	0.00
Mo	95	1	No Gas	66214	0.00
Sn	118	1	No Gas	107907	0.00
Sb	121	1	No Gas	153736	0.00
Ba	137	1	No Gas	53373	0.00
Tl	205	1	No Gas	324005	0.00
Tl	203	1	No Gas	138607	0.00
Pb	208	1	No Gas	447032	0.00
U	238	1	No Gas	455924	0.00
Ca	43	2	He	1783	0.12
Sb	121	2	He	69668	0.00
Cu	63	1	No Gas	150550	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	822480	0.85	839053	98.02	70	120	
Ge	72	2	He	582633	0.74	589070	98.91	70	120	
Ge	72	1	No Gas	2399768	1.15	2387222	100.53	70	120	

Calibration Standard Report

In	115	1	No Gas	2718972	0.69	2718732	100.01	70	120	
Bi	209	1	No Gas	2459760	1.20	2414089	101.89	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	163CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T20:01:54-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	159CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	325679	0.00
V	51	2	He	609185	0.00
Cr	52	2	He	724829	0.00
Fe	56	2	He	64625389	0.00
Se	78	2	He	8045	0.04
As	75	2	He	108260	0.00
Ca	44	2	He	299775	0.00
Na	23	2	He	10532996	0.00
Mg	24	2	He	5734658	0.00
K	39	2	He	6049111	0.00
Mn	55	2	He	446985	0.00
Co	59	2	He	1252211	0.00
Ni	60	2	He	314557	0.00
Cu	63	2	He	852619	0.00
Zn	66	2	He	149278	0.00
Al	27	2	He	26442	0.01
B	11	1	No Gas	996824	0.00
Al	27	1	No Gas	1651563	0.00
Si	28	1	No Gas	3893227	0.00
Ag	107	1	No Gas	1958164	0.00
Cd	111	1	No Gas	377370	0.00
Sr	88	1	No Gas	3447825	0.00
Mo	95	1	No Gas	677565	0.00
Sn	118	1	No Gas	1069082	0.00
Sb	121	1	No Gas	1618973	0.00
Ba	137	1	No Gas	526380	0.00
Tl	205	1	No Gas	3371844	0.00
Tl	203	1	No Gas	1446057	0.00
Pb	208	1	No Gas	4551449	0.00
U	238	1	No Gas	4737348	0.00
Ca	43	2	He	17842	0.01
Sb	121	2	He	703652	0.00
Cu	63	1	No Gas	1547692	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	796909	1.47	839053	94.98	70	120	
Ge	72	2	He	592953	0.44	589070	100.66	70	120	
Ge	72	1	No Gas	2337325	1.26	2387222	97.91	70	120	

Calibration Standard Report

In	115	1	No Gas	2668537	0.48	2718732	98.15	70	120	
Bi	209	1	No Gas	2364681	1.65	2414089	97.95	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	164CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T20:03:46-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	159CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	641687	0.00
V	51	2	He	1349762	0.00
Cr	52	2	He	1476444	0.00
Fe	56	2	He	126732951	0.00
Se	78	2	He	15675	0.00
As	75	2	He	212541	0.00
Ca	44	2	He	588900	0.00
Na	23	2	He	20242920	0.00
Mg	24	2	He	11218092	0.00
K	39	2	He	11747969	0.00
Mn	55	2	He	875605	0.00
Co	59	2	He	2437931	0.00
Ni	60	2	He	607507	0.00
Cu	63	2	He	1756949	0.00
Zn	66	2	He	286524	0.00
Al	27	2	He	51174	0.00
B	11	1	No Gas	1958750	0.00
Al	27	1	No Gas	3105295	0.00
Si	28	1	No Gas	7190539	0.00
Ag	107	1	No Gas	3757108	0.00
Cd	111	1	No Gas	744876	0.00
Sr	88	1	No Gas	6683342	0.00
Mo	95	1	No Gas	1492615	0.00
Sn	118	1	No Gas	2296311	0.00
Sb	121	1	No Gas	3182845	0.00
Ba	137	1	No Gas	1039729	0.00
Tl	205	1	No Gas	6455168	0.00
Tl	203	1	No Gas	2883972	0.00
Pb	208	1	No Gas	9197263	0.00
U	238	1	No Gas	9221956	0.00
Ca	43	2	He	34567	0.00
Sb	121	2	He	1485988	0.00
Cu	63	1	No Gas	2966153	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	777083	2.12	839053	92.61	70	120	
Ge	72	2	He	575306	0.77	589070	97.66	70	120	
Ge	72	1	No Gas	2308506	1.69	2387222	96.70	70	120	

Calibration Standard Report

In	115	1	No Gas	2587534	0.99	2718732	95.17	70	120	
Bi	209	1	No Gas	2309297	0.87	2414089	95.66	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICCV
Data File Name	166_ICV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T20:07:28-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	159CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	101.361	2.782	1255692	2.27	100	101.4	90	110	
Be	9	1	No Gas	99.108	1.077	327804	0.82	100	99.1	90	110	
V	51	2	He	88.408	0.300	616510	0.58	100	88.4	90	110	ICV Main CR1 Failed
Cr	52	2	He	95.663	0.572	740154	0.73	100	95.7	90	110	
Fe	56	2	He	9732.134	0.787	65105749	0.80	10000	97.3	90	110	
Se	78	2	He	99.680	0.759	8312	0.91	100	99.7	90	110	
As	75	2	He	101.667	1.185	114082	1.45	100	101.7	90	110	
Ca	44	2	He	9728.881	1.388	302499	1.72	10000	97.3	90	110	
Na	23	2	He	9783.950	1.368	10542839	1.58	10000	97.8	90	110	
Mg	24	2	He	9803.295	0.133	5806798	0.45	10000	98.0	90	110	
K	39	2	He	9688.155	0.518	6041410	0.84	10000	96.9	90	110	
Mn	55	2	He	99.082	0.973	458226	1.20	100	99.1	90	110	
Co	59	2	He	99.825	2.047	1286196	2.27	100	99.8	90	110	
Ni	60	2	He	99.508	0.464	320764	0.67	100	99.5	90	110	
Cu	63	2	He	93.789	0.119	863616	0.33	100	93.8	90	110	
Zn	66	2	He	98.389	0.675	149577	0.70	100	98.4	90	110	
Al	27	2	He	96.328	3.287	26439	3.12	100	96.3	90	110	
B	11	1	No Gas	489.631	1.165	991392	1.64	500	97.9	90	110	
Al	27	1	No Gas	97.692	1.758	1608360	2.68	100	97.7	90	110	
Si	28	1	No Gas	494.867	0.904	3880367	0.84	500	99.0	90	110	
Ag	107	1	No Gas	101.001	0.093	2009259	1.24	100	101.0	90	110	
Cd	111	1	No Gas	98.256	1.309	385310	0.29	100	98.3	90	110	
Sr	88	1	No Gas	98.561	0.554	3481172	1.15	100	98.6	90	110	
Mo	95	1	No Gas	88.088	1.634	677795	0.36	100	88.1	90	110	ICV Main CR1 Failed
Sn	118	1	No Gas	91.787	0.979	1091959	0.34	100	91.8	90	110	
Sb	121	1	No Gas	100.517	1.418	1659604	0.79	100	100.5	90	110	
Ba	137	1	No Gas	98.173	0.567	537430	0.93	100	98.2	90	110	
Tl	205	1	No Gas	102.482	1.403	3450263	1.11	100	102.5	90	110	
Tl	203	1	No Gas	101.124	2.319	1508393	1.88	100	101.1	90	110	
Pb	208	1	No Gas	96.648	1.242	4586434	1.01	100	96.6	90	110	
U	238	1	No Gas	98.118	1.186	4703154	1.23	100	98.1	90	110	
Ca	43	2	He	9694.126	1.616	17738	1.28	10000	96.9	90	110	
Sb	121	2	He	93.970	0.028	726597	0.33	100	94.0	90	110	
Ti	47	2	He	97.280	1.197	20038	1.42	100	97.3	90	110	
Cu	63	1	No Gas	101.245	0.362	1569218	0.94	100	101.2	90	110	
Se	82	1	No Gas	99.467	4.948	21543	4.46	100	99.5	90	110	

QC ISTD Table

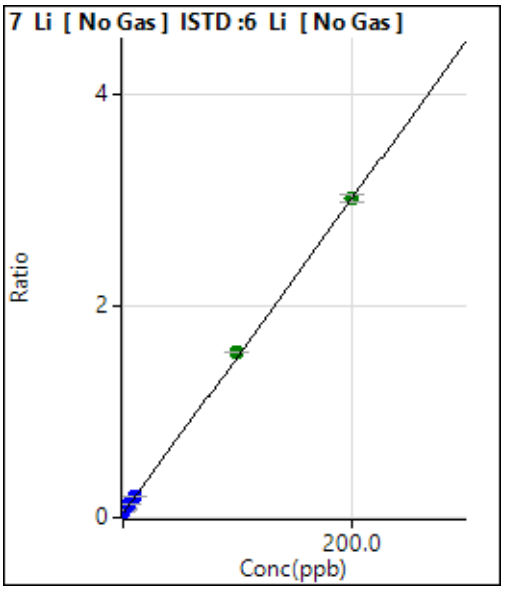
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	802906	1.80	839053	95.69	70	120	
Ge	72	2	He	608575	0.34	589070	103.31	70	120	
Ge	72	1	No Gas	2393098	1.25	2387222	100.25	70	120	
In	115	1	No Gas	2734578	1.33	2718732	100.58	70	120	
Bi	209	1	No Gas	2399485	0.56	2414089	99.40	70	120	

Calibration for 166_ICV.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\083022A.b\
Analysis File: 083022A.batch.bin
DA Date-Time: 08/30/2022 22:08:01
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	159CALB.d	CAL BLK	08/30/2022 19:54:04
2	160CALS.d	2/10/200	08/30/2022 19:56:01
3	161CALS.d	5/25/500	08/30/2022 19:57:59
4	162CALS.d	10/50/100	08/30/2022 19:59:56
5	163CALS.d	100/500/10K	08/30/2022 20:01:54
6	164CALS.d	200/1000/20K	08/30/2022 20:03:46

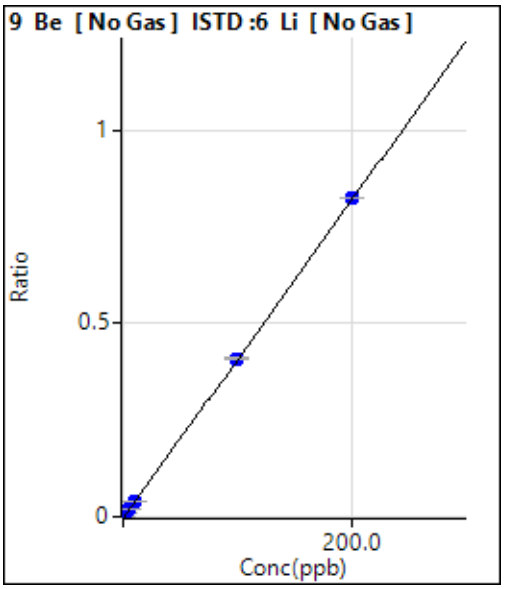
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	44734.13	0.0533	P	3.8	
2	☐	2.000	1.936	68167.57	0.0822	P	1.9	-3.2
3	☐	5.000	4.613	101585.50	0.1221	P	2.6	-7.7
4	☐	10.000	9.505	160402.60	0.1950	P	0.7	-4.9
5	☐	100.000	101.336	1246278.31	1.5638	A	0.4	1.3
6	☐	200.000	199.367	2351360.95	3.0251	A	2.0	-0.3

y = 0.0149 * x + 0.0533
R = 1.0000
DL = 0.4034 ppb
BEC = 3.579 ppb

Weight: <None>
Min Conc: <None>

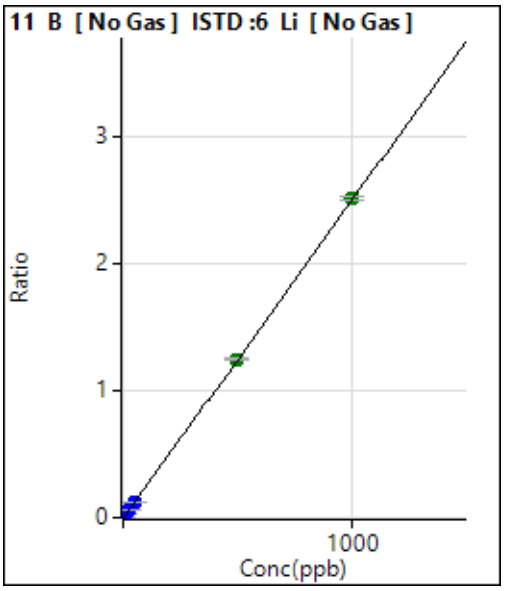


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3.33	0.0000	P	86.6	
2	☐	2.000	1.877	6414.85	0.0077	P	2.9	-6.2
3	☐	5.000	4.714	16156.01	0.0194	P	4.4	-5.7
4	☐	10.000	9.619	32597.74	0.0396	P	1.0	-3.8
5	☐	100.000	99.199	325679.31	0.4087	P	1.2	-0.8
6	☐	200.000	200.428	641686.51	0.8258	P	0.6	0.2

y = 0.0041 * x + 3.9144E-006
R = 1.0000
DL = 0.002468 ppb
BEC = 0.0009501 ppb

Weight: <None>
Min Conc: <None>

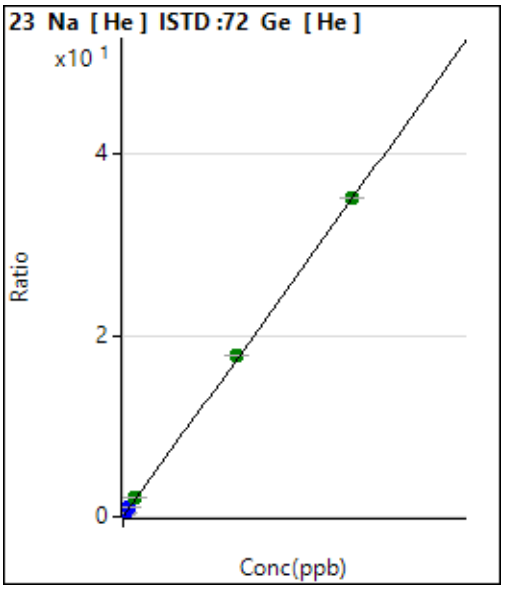
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5409.43	0.0065	P	5.9	
2	☐	10.000	8.809	23678.40	0.0285	P	0.9	-11.9
3	☐	25.000	22.034	51351.89	0.0617	P	3.1	-11.9
4	☐	50.000	45.486	99157.60	0.1206	P	1.0	-9.0
5	☐	500.000	496.044	996823.97	1.2509	A	1.9	-0.8
6	☐	1000.000	1002.290	1958750.03	2.5210	A	1.3	0.2

y = 0.0025 * x + 0.0065
R = 1.0000
DL = 0.4545 ppb
BEC = 2.571 ppb

Weight: <None>
Min Conc: <None>

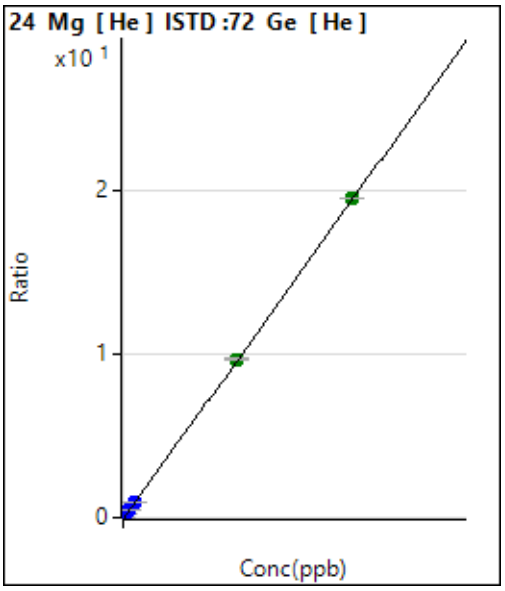


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	108452.89	0.1842	P	2.6	
2	☐	200.000	186.453	304339.66	0.5108	P	0.7	-6.8
3	☐	500.000	468.267	596283.25	1.0045	P	1.0	-6.3
4	☐	1000.000	1052.542	1181585.32	2.0280	A	1.1	5.3
5	☐	10000.00	10035.18	10532995.88	17.7636	A	0.7	0.4
6	☐	20000.00	19980.71	20242920.11	35.1860	A	0.5	-0.1

y = 0.0018 * x + 0.1842
R = 1.0000
DL = 8.133 ppb
BEC = 105.1 ppb

Weight: <None>
Min Conc: <None>

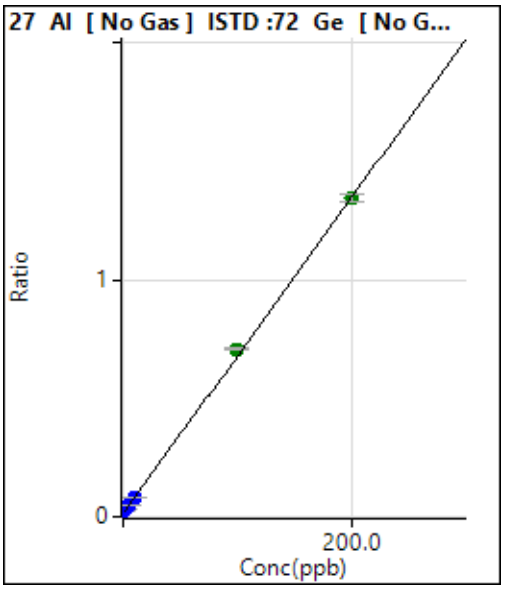
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	360.01	0.0006	P	18.6	
2	☐	200.000	187.564	109131.52	0.1832	P	1.4	-6.2
3	☐	500.000	471.056	272522.93	0.4591	P	0.8	-5.8
4	☐	1000.000	944.338	535842.66	0.9197	P	1.5	-5.6
5	☐	10000.00	9936.769	5734657.62	9.6715	A	0.6	-0.6
6	☐	20000.00	20035.24	11218091.91	19.4998	A	0.5	0.2

y = 9.7324E-004 * x + 6.1211E-004
R = 1.0000
DL = 0.3514 ppb
BEC = 0.6289 ppb

Weight: <None>
Min Conc: <None>

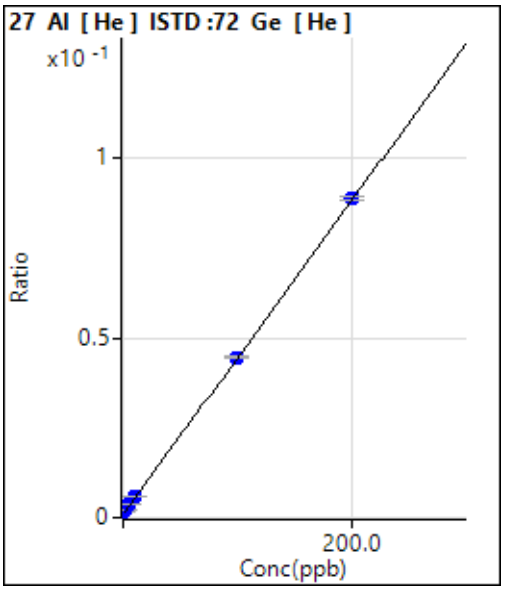


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	48923.29	0.0205	P	0.6	
2	☐	2.000	2.083	82350.16	0.0344	P	2.4	4.1
3	☐	5.000	4.619	122051.87	0.0513	P	1.8	-7.6
4	☐	10.000	9.058	194128.02	0.0809	P	0.9	-9.4
5	☐	100.000	102.871	1651563.41	0.7066	A	0.8	2.9
6	☐	200.000	198.620	3105294.64	1.3451	A	2.0	-0.7

y = 0.0067 * x + 0.0205
R = 0.9998
DL = 0.05845 ppb
BEC = 3.073 ppb

Weight: <None>
Min Conc: <None>

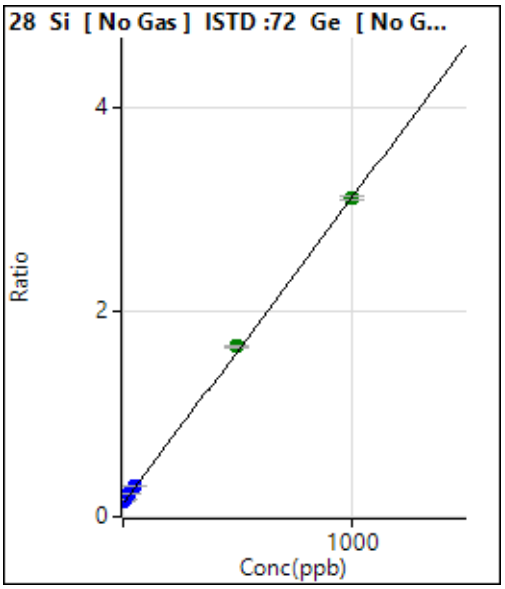
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	803.37	0.0014	P	0.9	
2	☐	2.000	2.027	1340.09	0.0022	P	2.4	1.3
3	☐	5.000	5.079	2126.87	0.0036	P	2.9	1.6
4	☐	10.000	10.227	3397.14	0.0058	P	3.8	2.3
5	☐	100.000	98.956	26442.12	0.0446	P	1.0	-1.0
6	☐	200.000	200.509	51174.25	0.0890	P	1.2	0.3

y = 4.3685E-004 * x + 0.0014
R = 1.0000
DL = 0.08698 ppb
BEC = 3.122 ppb

Weight: <None>
Min Conc: <None>

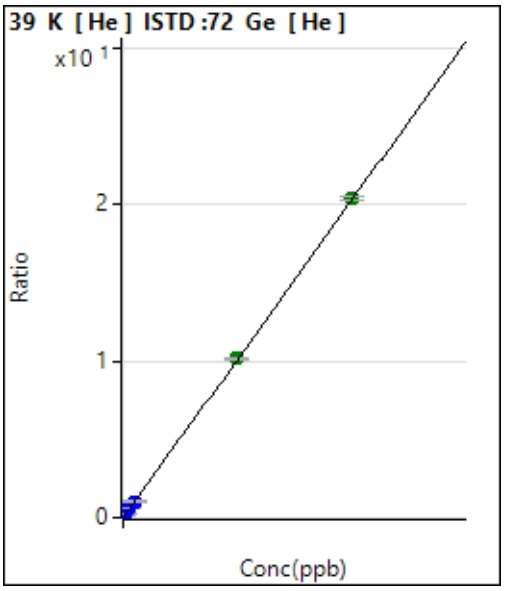


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	344820.27	0.1444	P	0.0	
2	☐	10.000	10.104	418218.77	0.1746	P	0.4	1.0
3	☐	25.000	25.250	522961.01	0.2198	P	2.5	1.0
4	☐	50.000	50.904	711230.07	0.2964	P	1.1	1.8
5	☐	500.000	509.609	3893227.44	1.6656	A	1.0	1.9
6	☐	1000.000	995.143	7190538.64	3.1148	A	1.6	-0.5

y = 0.0030 * x + 0.1444
R = 0.9999
DL = 0.0378 ppb
BEC = 48.39 ppb

Weight: <None>
Min Conc: <None>

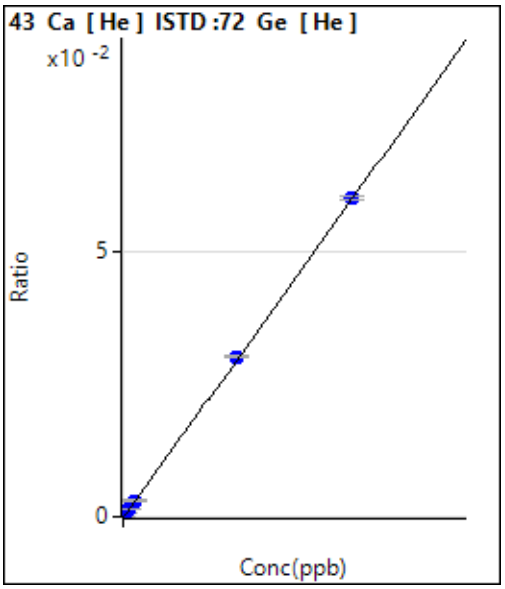
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	54102.79	0.0918	P	0.6	
2	☐	200.000	186.905	167782.79	0.2816	P	0.4	-6.5
3	☐	500.000	466.820	335851.98	0.5658	P	1.1	-6.6
4	☐	1000.000	937.982	608293.79	1.0441	P	0.5	-6.2
5	☐	10000.00	9958.945	6049110.95	10.2019	A	1.1	-0.4
6	☐	20000.00	20024.58	11747968.99	20.4203	A	0.7	0.1

y = 0.0010 * x + 0.0918
R = 1.0000
DL = 1.575 ppb
BEC = 90.48 ppb

Weight: <None>
Min Conc: <None>

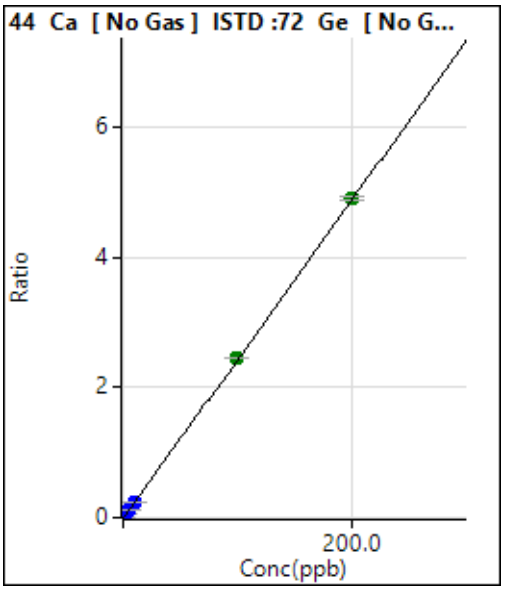


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	23.33	0.0000	P	137.0	
2	☐	200.000	240.360	453.35	0.0008	P	29.4	20.2
3	☐	500.000	456.387	836.71	0.0014	P	4.6	-8.7
4	☐	1000.000	1006.498	1783.48	0.0031	P	2.8	0.6
5	☐	10000.00	10007.79	17841.75	0.0301	P	1.2	0.1
6	☐	20000.00	19996.46	34567.05	0.0601	P	0.8	0.0

y = 3.0028E-006 * x + 3.9189E-005
R = 1.0000
DL = 53.63 ppb
BEC = 13.05 ppb

Weight: <None>
Min Conc: <None>

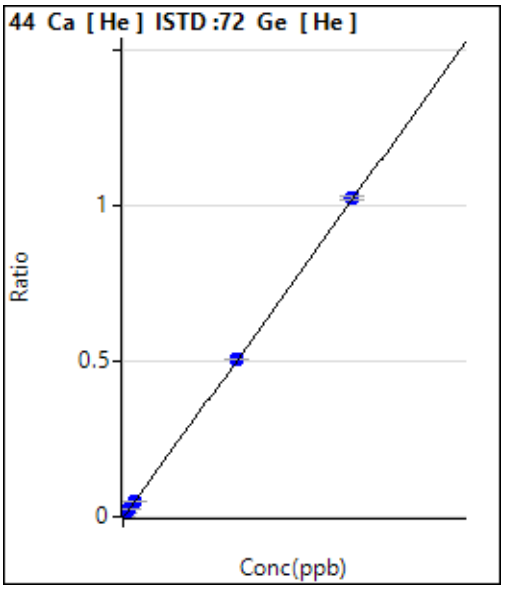
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	24228.26	0.0101	P	0.3	
2	☐	2.000	1.836	131947.75	0.0551	P	1.7	-8.2
3	☐	5.000	4.690	297349.81	0.1250	P	2.9	-6.2
4	☐	10.000	9.305	571033.29	0.2380	P	1.1	-7.0
5	☐	100.000	99.564	5721715.96	2.4479	A	0.5	-0.4
6	☐	200.000	200.262	11342811.91	4.9134	A	1.2	0.1

y = 0.0245 * x + 0.0101
R = 1.0000
DL = 0.004158 ppb
BEC = 0.4145 ppb

Weight: <None>
Min Conc: <None>

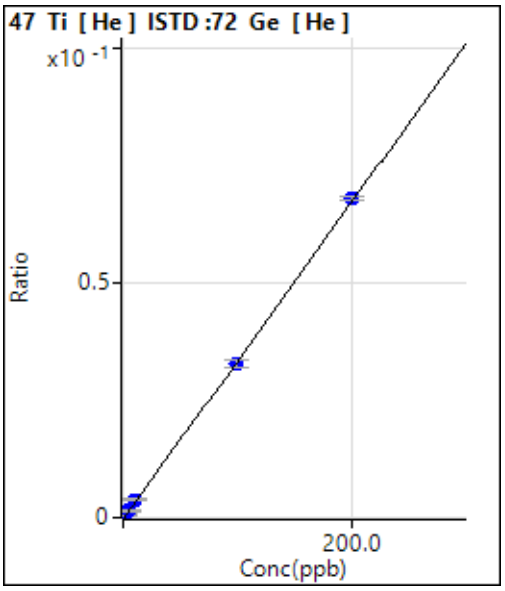


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	466.68	0.0008	P	7.7	
2	☐	200.000	198.706	6511.64	0.0109	P	5.2	-0.6
3	☐	500.000	496.115	15495.64	0.0261	P	5.2	-0.8
4	☐	1000.000	978.629	29545.24	0.0507	P	1.4	-2.1
5	☐	10000.00	9895.854	299774.84	0.5056	P	0.6	-1.0
6	☐	20000.00	20053.25	588899.90	1.0237	P	1.0	0.3

y = 5.1008E-005 * x + 7.9188E-004
R = 1.0000
DL = 3.575 ppb
BEC = 15.52 ppb

Weight: <None>
Min Conc: <None>

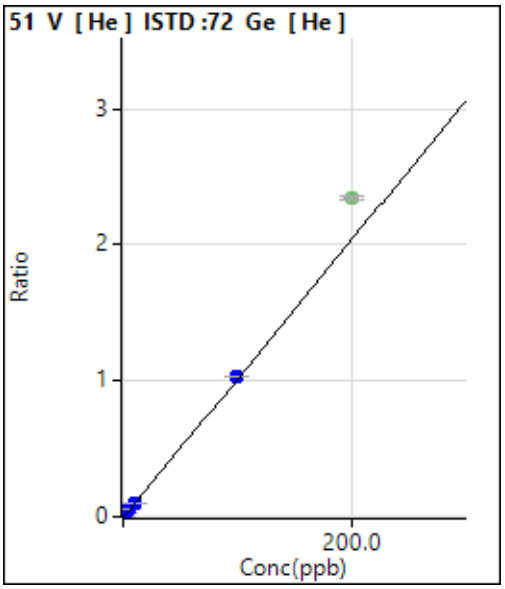
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	0.00	0.0000	P		
2	☐	2.000	1.834	370.01	0.0006	P	28.1	-8.3
3	☐	5.000	4.444	893.38	0.0015	P	14.8	-11.1
4	☐	10.000	11.051	2180.22	0.0037	P	9.3	10.5
5	☐	100.000	97.105	19487.49	0.0329	P	4.3	-2.9
6	☐	200.000	201.410	39219.69	0.0682	P	1.5	0.7

y = 3.3847E-004 * x + 0.0000E+000
R = 0.9998
DL = 0 ppb
BEC = 0 ppb

Weight: <None>
Min Conc: <None>

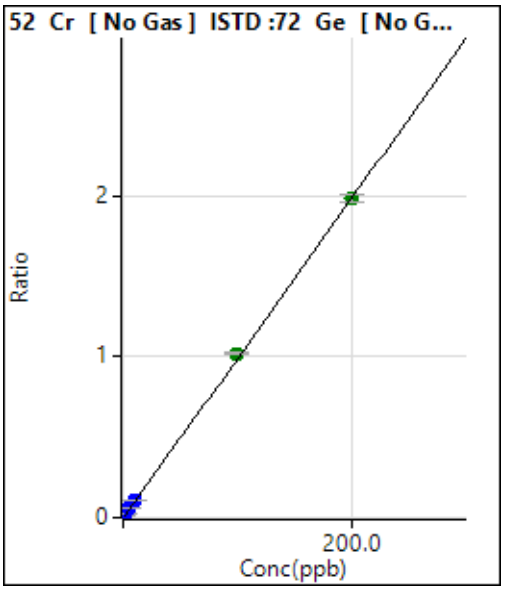


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2444.68	0.0041	P	2.1	
2	☐	2.000	1.962	14432.09	0.0242	P	1.1	-1.9
3	☐	5.000	4.979	32704.50	0.0551	P	2.2	-0.4
4	☐	10.000	9.917	61531.74	0.1056	P	0.7	-0.8
5	☐	100.000	100.010	609185.20	1.0274	P	0.1	0.0
6	☑	200.000		1349762.06	2.3463	A	1.1	

y = 0.0102 * x + 0.0041
R = 1.0000
DL = 0.02563 ppb
BEC = 0.4056 ppb

Weight: <None>
Min Conc: <None>

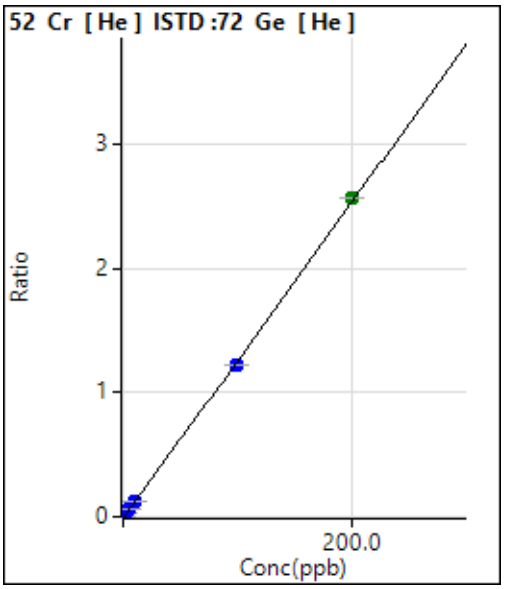
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16063.01	0.0067	P	3.0	
2	☐	2.000	1.878	60875.61	0.0254	P	1.6	-6.1
3	☐	5.000	4.848	130783.86	0.0550	P	2.0	-3.0
4	☐	10.000	9.653	246629.83	0.1028	P	1.3	-3.5
5	☐	100.000	102.044	2389178.30	1.0221	A	1.2	2.0
6	☐	200.000	199.000	4586259.83	1.9868	A	2.2	-0.5

y = 0.0100 * x + 0.0067
R = 0.9999
DL = 0.06061 ppb
BEC = 0.6763 ppb

Weight: <None>
Min Conc: <None>

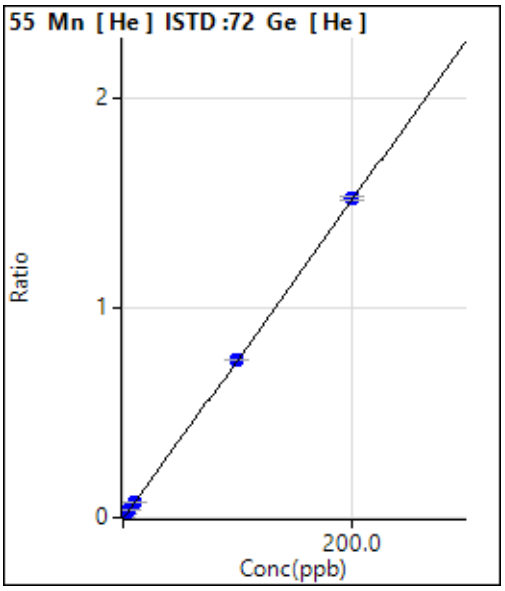


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	553.36	0.0009	P	18.9	
2	☐	2.000	1.881	14798.25	0.0248	P	3.2	-5.9
3	☐	5.000	4.861	37217.66	0.0627	P	1.7	-2.8
4	☐	10.000	9.637	71874.76	0.1234	P	0.9	-3.6
5	☐	100.000	96.153	724829.42	1.2224	P	0.8	-3.8
6	☐	200.000	201.946	1476443.88	2.5664	A	0.6	1.0

y = 0.0127 * x + 9.4085E-004
R = 0.9997
DL = 0.04196 ppb
BEC = 0.07406 ppb

Weight: <None>
Min Conc: <None>

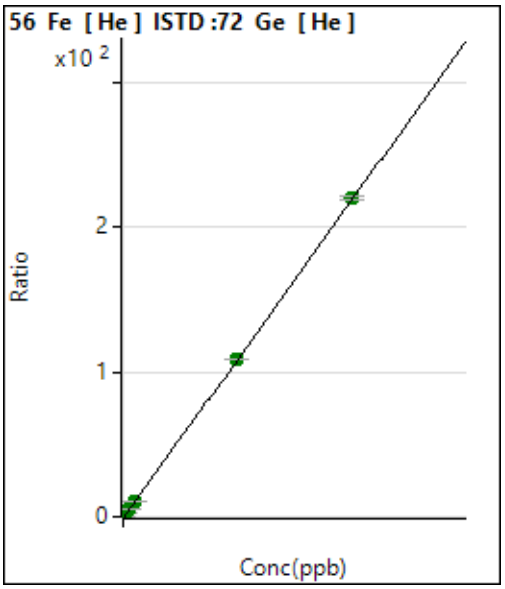
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	486.69	0.0008	P	3.8	
2	☐	2.000	2.012	9593.52	0.0161	P	4.6	0.6
3	☐	5.000	5.045	23223.36	0.0391	P	0.6	0.9
4	☐	10.000	9.991	44670.12	0.0767	P	1.5	-0.1
5	☐	100.000	99.199	446985.03	0.7538	P	0.6	-0.8
6	☐	200.000	200.400	875604.70	1.5220	P	0.6	0.2

y = 0.0076 * x + 8.2602E-004
R = 1.0000
DL = 0.01241 ppb
BEC = 0.1088 ppb

Weight: <None>
Min Conc: <None>

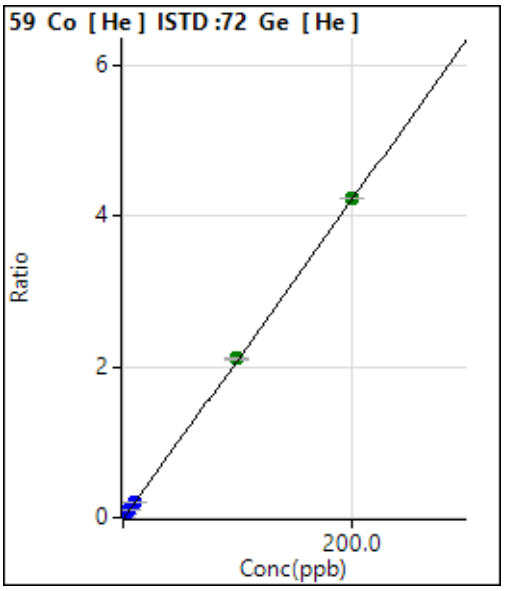


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10944.57	0.0186	P	4.5	
2	☐	200.000	208.562	1376864.62	2.3108	A	1.0	4.3
3	☐	500.000	517.243	3385763.70	5.7034	A	1.0	3.4
4	☐	1000.000	1010.221	6479882.61	11.1216	A	0.8	1.0
5	☐	10000.00	9914.782	64625389.04	108.988	A	0.2	-0.9
6	☐	20000.00	20041.58	126732951.4	220.288	A	0.6	0.2

y = 0.0110 * x + 0.0186
R = 1.0000
DL = 0.2263 ppb
BEC = 1.691 ppb

Weight: <None>
Min Conc: <None>

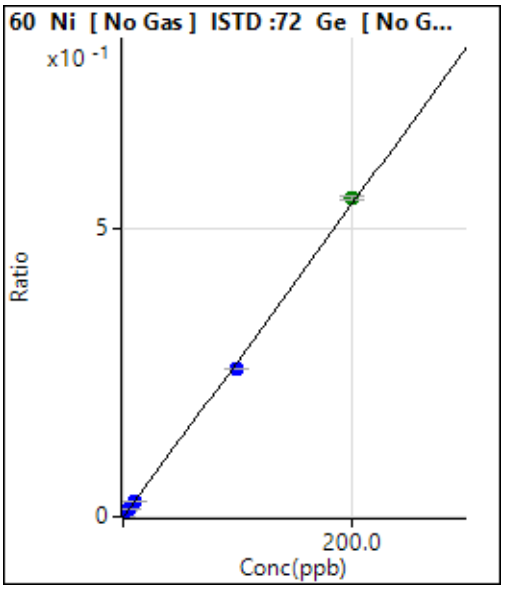
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	30.00	0.0001	P	88.5	
2	☐	2.000	1.856	23447.11	0.0393	P	2.4	-7.2
3	☐	5.000	4.738	59580.16	0.1004	P	0.9	-5.2
4	☐	10.000	9.419	116215.14	0.1995	P	0.4	-5.8
5	☐	100.000	99.750	1252211.02	2.1118	A	0.6	-0.3
6	☐	200.000	200.162	2437931.00	4.2376	A	0.2	0.1

y = 0.0212 * x + 5.0915E-005
R = 1.0000
DL = 0.006386 ppb
BEC = 0.002405 ppb

Weight: <None>
Min Conc: <None>

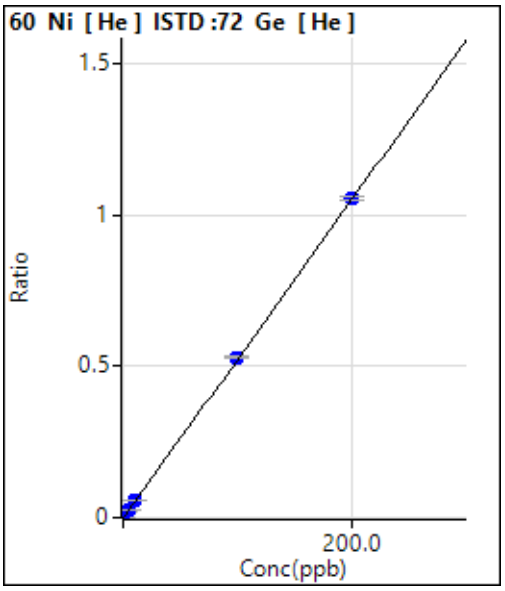


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3600.54	0.0015	P	3.6	
2	☐	2.000	2.758	21547.33	0.0090	P	4.5	37.9
3	☐	5.000	4.220	30851.93	0.0130	P	3.0	-15.6
4	☐	10.000	8.797	60950.05	0.0254	P	2.4	-12.0
5	☐	100.000	93.677	598046.52	0.2559	P	0.4	-6.3
6	☐	200.000	203.234	1277280.06	0.5534	A	1.5	1.6

y = 0.0027 * x + 0.0015
R = 0.9993
DL = 0.05952 ppb
BEC = 0.5554 ppb

Weight: <None>
Min Conc: <None>

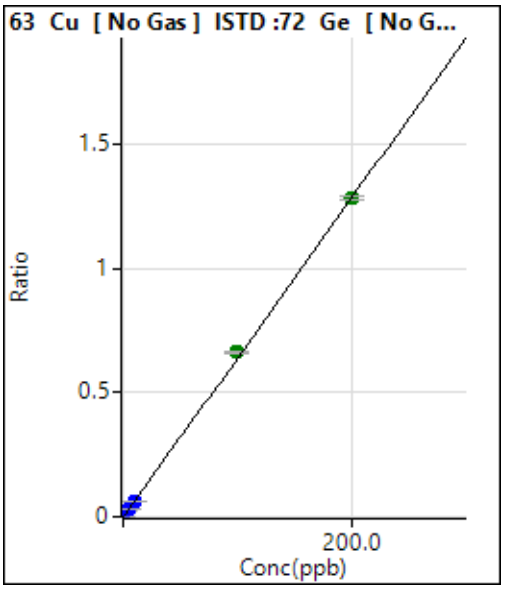
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1743.48	0.0030	P	4.0	
2	☐	2.000	3.013	11221.43	0.0188	P	2.1	50.7
3	☐	5.000	4.665	16343.38	0.0275	P	2.1	-6.7
4	☐	10.000	9.835	31907.71	0.0548	P	1.5	-1.6
5	☐	100.000	100.159	314556.55	0.5305	P	0.7	0.2
6	☐	200.000	199.927	607506.88	1.0560	P	0.7	0.0

y = 0.0053 * x + 0.0030
R = 1.0000
DL = 0.06674 ppb
BEC = 0.5621 ppb

Weight: <None>
Min Conc: <None>

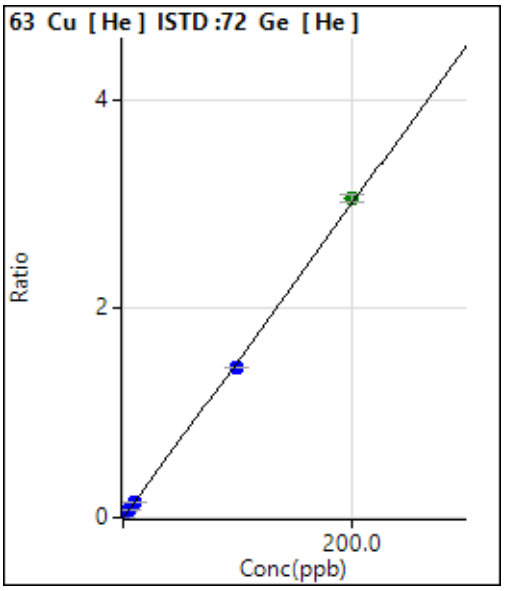


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8769.66	0.0037	P	4.1	
2	☑	2.000		60220.14	0.0251	P	0.6	
3	☐	5.000	4.336	75187.54	0.0316	P	1.2	-13.3
4	☐	10.000	9.171	150549.70	0.0627	P	1.4	-8.3
5	☐	100.000	102.246	1547692.42	0.6622	A	0.3	2.2
6	☐	200.000	198.935	2966152.87	1.2848	A	1.4	-0.5

y = 0.0064 * x + 0.0037
R = 0.9999
DL = 0.07045 ppb
BEC = 0.5704 ppb

Weight: <None>
Min Conc: <None>

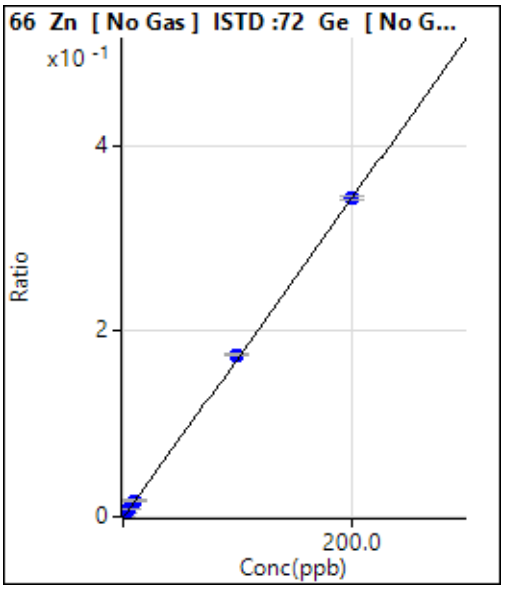
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5214.42	0.0089	P	2.6	
2	☑	2.000		35466.50	0.0595	P	0.5	
3	☐	5.000	4.332	43917.80	0.0740	P	2.0	-13.4
4	☐	10.000	9.201	85762.87	0.1472	P	1.0	-8.0
5	☐	100.000	95.049	852618.79	1.4379	P	0.8	-5.0
6	☐	200.000	202.532	1756948.72	3.0540	A	1.8	1.3

y = 0.0150 * x + 0.0089
R = 0.9996
DL = 0.04662 ppb
BEC = 0.5887 ppb

Weight: <None>
Min Conc: <None>

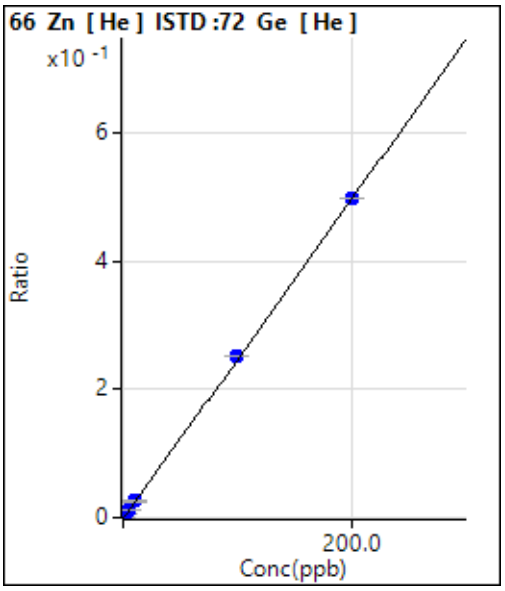


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	950.05	0.0004	P	15.7	
2	☐	2.000	2.008	9229.97	0.0039	P	3.5	0.4
3	☐	5.000	4.987	21367.09	0.0090	P	1.6	-0.3
4	☐	10.000	9.962	42092.17	0.0175	P	2.7	-0.4
5	☐	100.000	101.308	408398.39	0.1747	P	0.5	1.3
6	☐	200.000	199.348	792756.05	0.3434	P	0.9	-0.3

y = 0.0017 * x + 3.9805E-004
R = 1.0000
DL = 0.1092 ppb
BEC = 0.2313 ppb

Weight: <None>
Min Conc: <None>

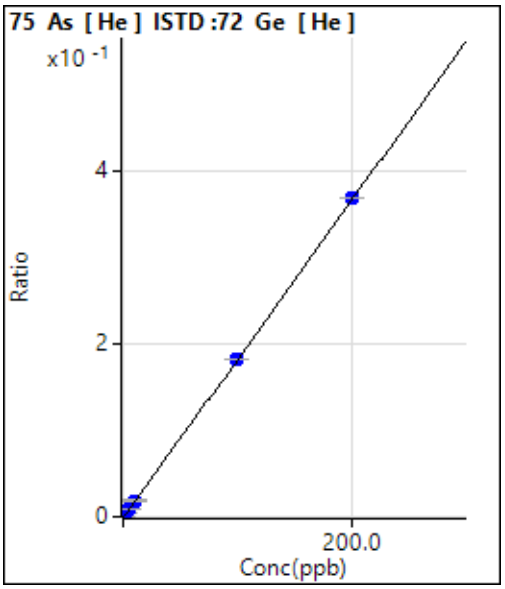
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	333.34	0.0006	P	7.3	
2	☐	2.000	2.207	3613.89	0.0061	P	9.1	10.3
3	☐	5.000	5.011	7749.03	0.0131	P	3.1	0.2
4	☐	10.000	10.177	15108.66	0.0259	P	5.6	1.8
5	☐	100.000	100.785	149277.52	0.2518	P	0.5	0.8
6	☐	200.000	199.596	286523.72	0.4980	P	0.6	-0.2

y = 0.0025 * x + 5.6621E-004
R = 1.0000
DL = 0.05005 ppb
BEC = 0.2272 ppb

Weight: <None>
Min Conc: <None>

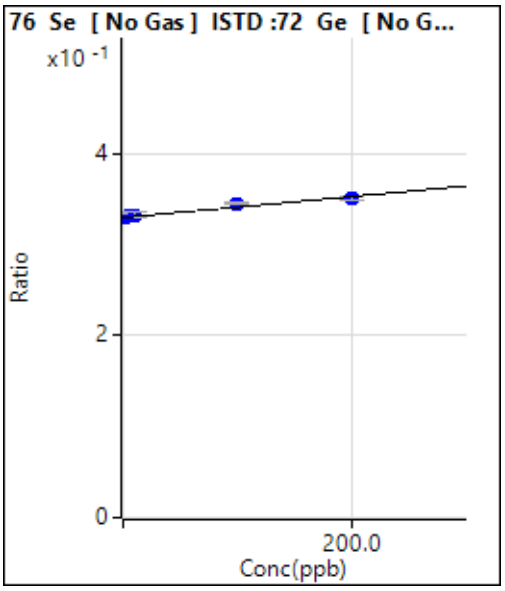


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	127.78	0.0002	P	15.6	
2	☐	2.000	1.889	2202.41	0.0037	P	4.2	-5.5
3	☐	5.000	4.863	5445.57	0.0092	P	1.8	-2.7
4	☐	10.000	10.097	10960.07	0.0188	P	2.4	1.0
5	☐	100.000	99.021	108260.14	0.1826	P	0.6	-1.0
6	☐	200.000	200.489	212541.27	0.3695	P	0.6	0.2

y = 0.0018 * x + 2.1722E-004
R = 1.0000
DL = 0.05508 ppb
BEC = 0.1179 ppb

Weight: <None>
Min Conc: <None>

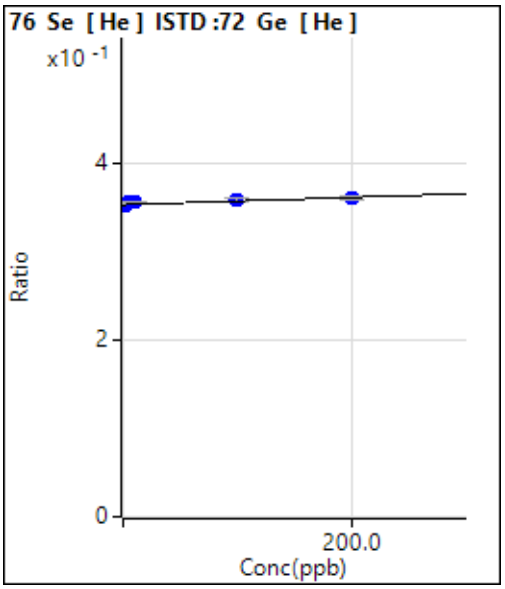
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	786631.68	0.3295	P	0.4	
2	☐	2.000	-1.533	788855.51	0.3293	P	0.4	-176.6
3	☐	5.000	17.130	788802.12	0.3315	P	1.1	242.6
4	☐	10.000	22.093	796793.92	0.3321	P	2.0	120.9
5	☐	100.000	133.778	806499.10	0.3450	P	0.6	33.8
6	☐	200.000	182.238	809446.50	0.3507	P	1.2	-8.9

y = 1.1608E-004 * x + 0.3295
R = 0.9768
DL = 37.15 ppb
BEC = 2839 ppb

Weight: <None>
Min Conc: <None>

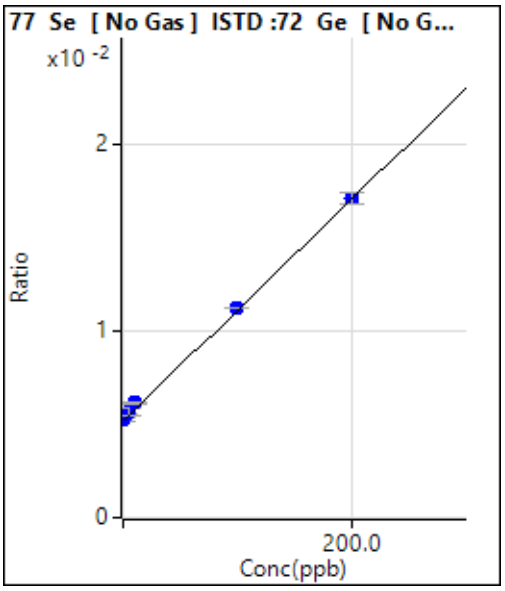


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	208438.16	0.3538	P	0.1	
2	☐	2.000	-20.979	210310.70	0.3530	P	0.5	-1148.
3	☐	5.000	66.332	211719.48	0.3566	P	0.6	1226.6
4	☐	10.000	54.611	207510.89	0.3561	P	0.7	446.1
5	☐	100.000	127.284	212990.97	0.3592	P	1.0	27.3
6	☐	200.000	182.824	207994.86	0.3616	P	1.0	-8.6

y = 4.2160E-005 * x + 0.3538
R = 0.9083
DL = 23.55 ppb
BEC = 8393 ppb

Weight: <None>
Min Conc: <None>

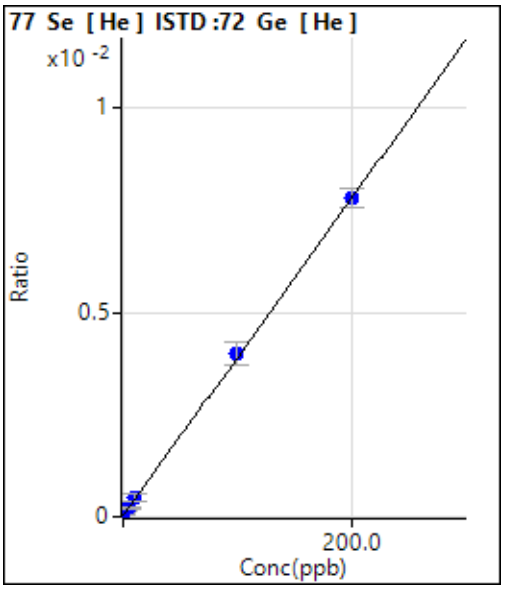
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12579.40	0.0053	P	4.9	
2	☐	2.000	3.561	13126.55	0.0055	P	1.5	78.1
3	☐	5.000	6.939	13517.06	0.0057	P	6.2	38.8
4	☐	10.000	14.555	14711.61	0.0061	P	1.9	45.6
5	☐	100.000	100.508	26229.22	0.0112	P	0.8	0.5
6	☐	200.000	199.454	39434.82	0.0171	P	4.1	-0.3

y = 5.9237E-005 * x + 0.0053
R = 0.9998
DL = 13.04 ppb
BEC = 88.94 ppb

Weight: <None>
Min Conc: <None>

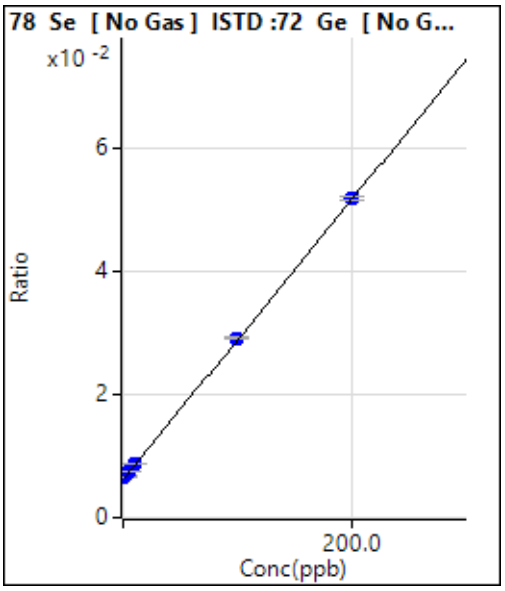


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	36.67	0.0001	P	31.7	
2	☐	2.000	2.717	100.00	0.0002	P	36.3	35.9
3	☐	5.000	4.024	130.00	0.0002	P	33.0	-19.5
4	☐	10.000	10.594	276.67	0.0005	P	31.7	5.9
5	☐	100.000	101.593	2380.26	0.0040	P	13.8	1.6
6	☐	200.000	199.191	4490.84	0.0078	P	6.6	-0.4

y = 3.8886E-005 * x + 6.2278E-005
R = 0.9999
DL = 1.524 ppb
BEC = 1.602 ppb

Weight: <None>
Min Conc: <None>

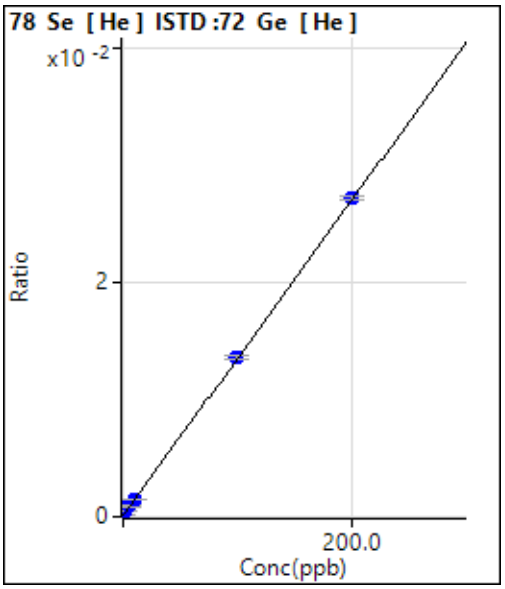
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	15459.12	0.0065	P	1.4	
2	☐	2.000	1.701	16436.98	0.0069	P	4.2	-14.9
3	☐	5.000	4.754	17982.25	0.0076	P	2.7	-4.9
4	☐	10.000	10.272	21150.21	0.0088	P	2.3	2.7
5	☐	100.000	100.090	68403.47	0.0293	P	0.6	0.1
6	☐	200.000	199.951	120044.74	0.0520	P	1.7	0.0

y = 2.2768E-004 * x + 0.0065
R = 1.0000
DL = 1.205 ppb
BEC = 28.44 ppb

Weight: <None>
Min Conc: <None>

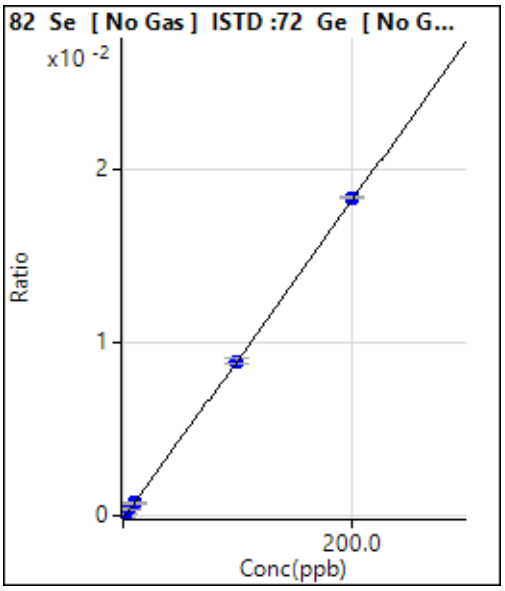


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	132.67	0.0002	P	10.5	
2	☐	2.000	1.806	279.33	0.0005	P	8.0	-9.7
3	☐	5.000	5.037	536.68	0.0009	P	6.4	0.7
4	☐	10.000	9.377	867.36	0.0015	P	6.2	-6.2
5	☐	100.000	99.009	8045.09	0.0136	P	2.7	-1.0
6	☐	200.000	200.528	15675.11	0.0272	P	1.0	0.3

y = 1.3476E-004 * x + 2.2542E-004
R = 1.0000
DL = 0.5278 ppb
BEC = 1.673 ppb

Weight: <None>
Min Conc: <None>

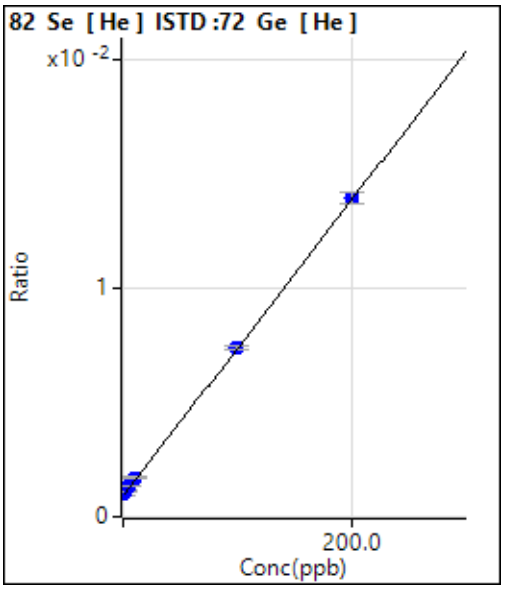
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-339.17	-0.0001	P	-31.1	
2	☐	2.000	1.971	93.73	0.0000	P	26.7	-1.5
3	☐	5.000	5.517	868.79	0.0004	P	14.5	10.3
4	☐	10.000	9.368	1723.94	0.0007	P	18.4	-6.3
5	☐	100.000	97.899	20711.26	0.0089	P	3.7	-2.1
6	☐	200.000	201.069	42358.86	0.0183	P	1.1	0.5

y = 9.1953E-005 * x - 1.4207E-004
R = 0.9999
DL = 1.44 ppb
BEC = -1.545 ppb

Weight: <None>
Min Conc: <None>

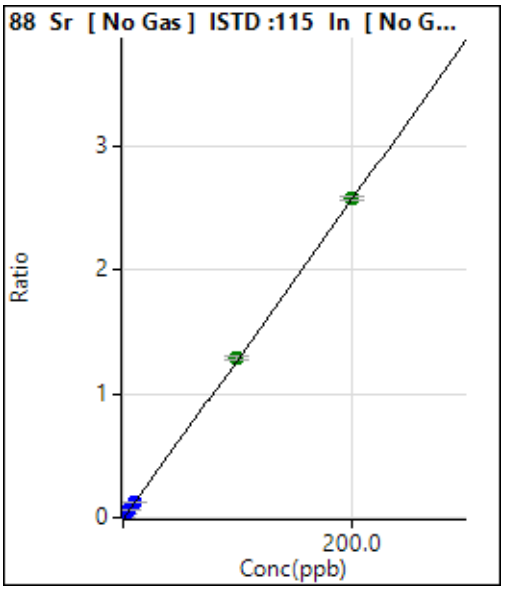


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	576.69	0.0010	P	16.6	
2	☐	2.000	2.265	670.03	0.0011	P	9.2	13.2
3	☐	5.000	5.624	796.71	0.0013	P	4.6	12.5
4	☐	10.000	11.331	996.73	0.0017	P	7.3	13.3
5	☐	100.000	99.208	4387.46	0.0074	P	2.5	-0.8
6	☐	200.000	200.311	8022.53	0.0139	P	3.1	0.2

y = 6.4724E-005 * x + 9.7783E-004
R = 1.0000
DL = 7.511 ppb
BEC = 15.11 ppb

Weight: <None>
Min Conc: <None>

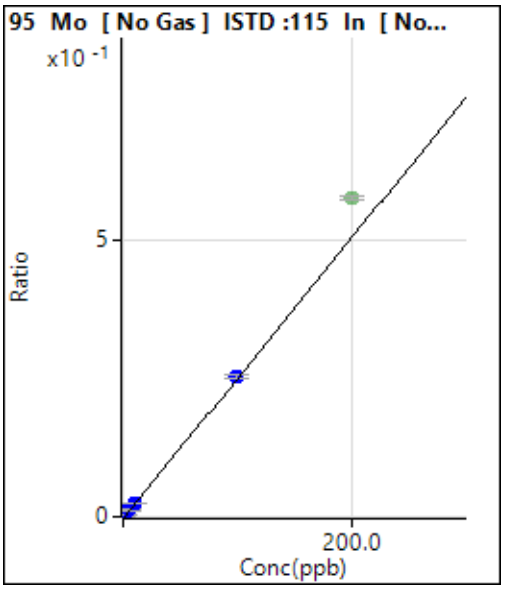
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1980.19	0.0007	P	8.3	
2	☐	2.000	1.888	68726.30	0.0251	P	0.4	-5.6
3	☐	5.000	4.626	166624.37	0.0604	P	0.9	-7.5
4	☐	10.000	9.507	335660.87	0.1235	P	1.1	-4.9
5	☐	100.000	100.035	3447825.36	1.2921	A	1.5	0.0
6	☐	200.000	200.018	6683341.57	2.5828	A	1.7	0.0

y = 0.0129 * x + 7.2876E-004
R = 1.0000
DL = 0.0141 ppb
BEC = 0.05645 ppb

Weight: <None>
Min Conc: <None>

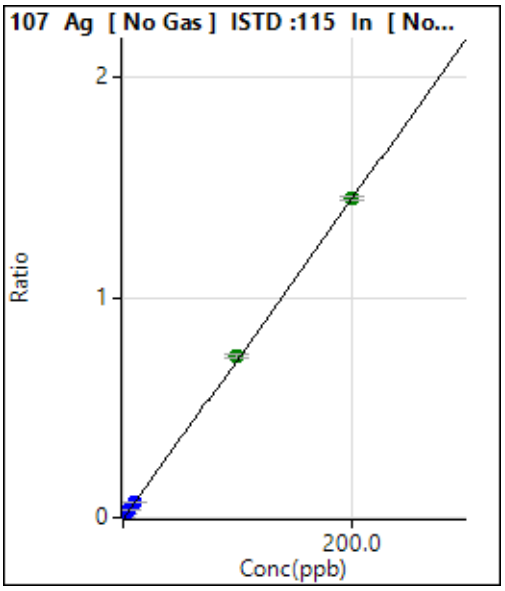


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	46.67	0.0000	P	66.8	
2	☐	2.000	1.928	13440.36	0.0049	P	3.0	-3.6
3	☐	5.000	4.829	33826.58	0.0123	P	3.7	-3.4
4	☐	10.000	9.590	66214.34	0.0244	P	1.7	-4.1
5	☐	100.000	100.051	677565.04	0.2539	P	2.0	0.1
6	☑	200.000		1492615.03	0.5768	A	1.2	

y = 0.0025 * x + 1.7278E-005
R = 1.0000
DL = 0.01364 ppb
BEC = 0.006808 ppb

Weight: <None>
Min Conc: <None>

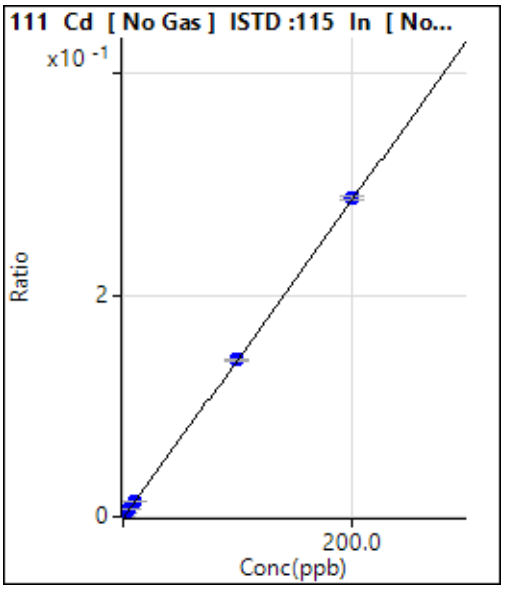
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	660.03	0.0002	P	10.4	
2	☐	2.000	1.867	37827.84	0.0138	P	1.5	-6.7
3	☐	5.000	4.611	93106.71	0.0338	P	1.1	-7.8
4	☐	10.000	9.381	186166.49	0.0685	P	0.5	-6.2
5	☐	100.000	100.873	1958163.72	0.7338	A	1.6	0.9
6	☐	200.000	199.606	3757107.96	1.4519	A	1.4	-0.2

y = 0.0073 * x + 2.4299E-004
R = 1.0000
DL = 0.01044 ppb
BEC = 0.03341 ppb

Weight: <None>
Min Conc: <None>

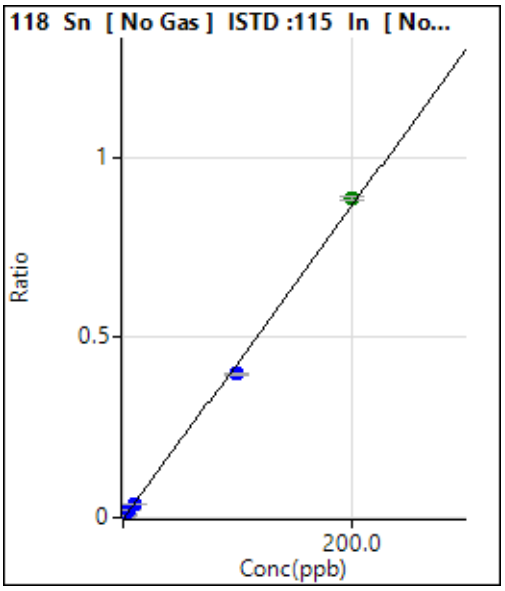


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10.00	0.0000	P	1.5	
2	☐	2.000	1.888	7418.87	0.0027	P	4.8	-5.6
3	☐	5.000	4.800	18987.30	0.0069	P	2.3	-4.0
4	☐	10.000	9.794	38199.00	0.0141	P	2.4	-2.1
5	☐	100.000	98.604	377370.21	0.1414	P	0.6	-1.4
6	☐	200.000	200.714	744876.13	0.2879	P	0.7	0.4

y = 0.0014 * x + 3.6787E-006
R = 1.0000
DL = 0.0001133 ppb
BEC = 0.002565 ppb

Weight: <None>
Min Conc: <None>

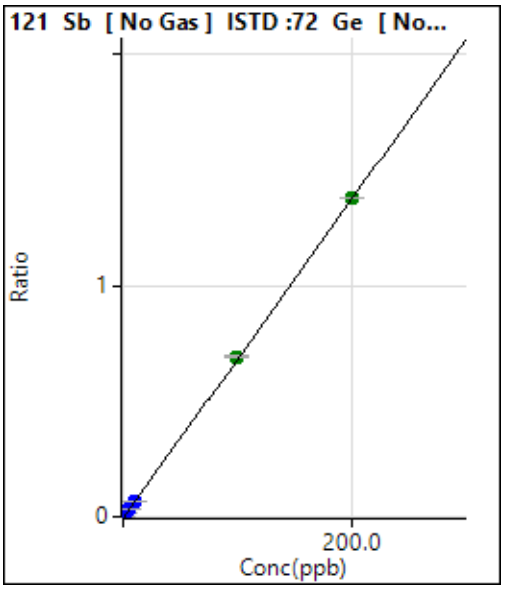
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	656.69	0.0002	P	13.0	
2	☐	2.000	1.790	21968.61	0.0080	P	1.1	-10.5
3	☐	5.000	4.453	54037.82	0.0196	P	1.4	-10.9
4	☐	10.000	9.072	107907.37	0.0397	P	0.3	-9.3
5	☐	100.000	92.084	1069081.76	0.4006	P	1.4	-7.9
6	☐	200.000	204.020	2296310.80	0.8874	A	1.6	2.0

y = 0.0043 * x + 2.4128E-004
R = 0.9989
DL = 0.02163 ppb
BEC = 0.05549 ppb

Weight: <None>
Min Conc: <None>

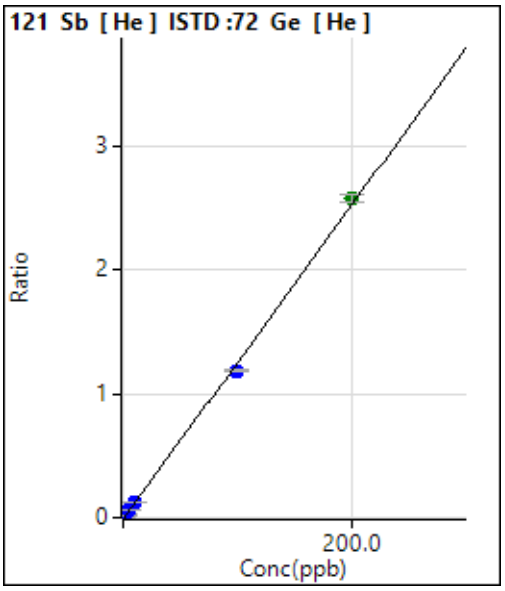


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	383.35	0.0002	P	19.3	
2	☐	2.000	1.819	30435.85	0.0127	P	0.9	-9.1
3	☐	5.000	4.655	76764.01	0.0323	P	3.8	-6.9
4	☐	10.000	9.264	153735.87	0.0641	P	1.5	-7.4
5	☐	100.000	100.390	1618973.41	0.6927	A	1.6	0.4
6	☐	200.000	199.852	3182845.47	1.3788	A	0.5	-0.1

y = 0.0069 * x + 1.6053E-004
R = 1.0000
DL = 0.01348 ppb
BEC = 0.02327 ppb

Weight: <None>
Min Conc: <None>

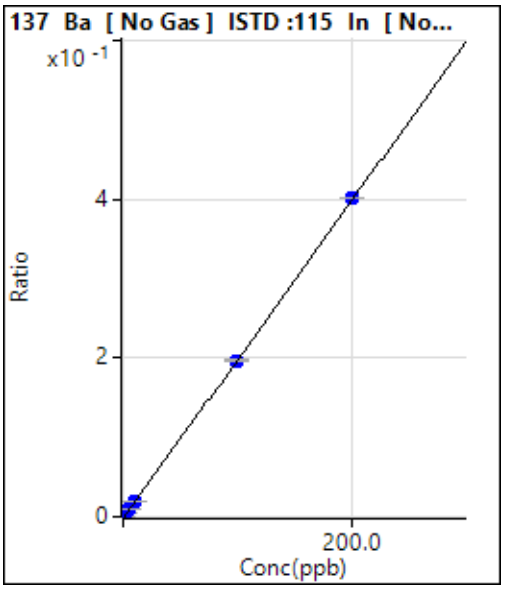
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	180.01	0.0003	P	28.8	
2	☐	2.000	1.845	14147.91	0.0237	P	4.2	-7.7
3	☐	5.000	4.613	34963.46	0.0589	P	0.7	-7.7
4	☐	10.000	9.390	69668.08	0.1196	P	1.2	-6.1
5	☐	100.000	93.401	703652.49	1.1867	P	0.8	-6.6
6	☐	200.000	203.341	1485987.63	2.5832	A	2.1	1.7

y = 0.0127 * x + 3.0508E-004
R = 0.9993
DL = 0.02075 ppb
BEC = 0.02402 ppb

Weight: <None>
Min Conc: <None>

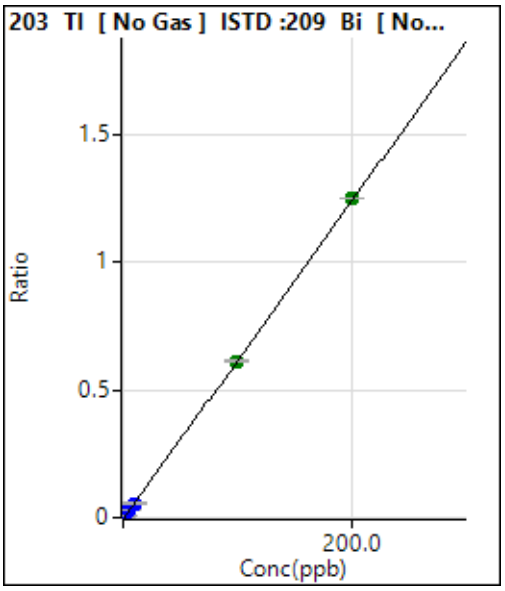


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	236.67	0.0001	P	24.5	
2	☐	2.000	1.908	10687.88	0.0039	P	1.7	-4.6
3	☐	5.000	4.740	26387.13	0.0096	P	2.3	-5.2
4	☐	10.000	9.767	53373.15	0.0196	P	1.6	-2.3
5	☐	100.000	98.533	526380.49	0.1973	P	0.6	-1.5
6	☐	200.000	200.753	1039729.31	0.4018	P	0.5	0.4

y = 0.0020 * x + 8.6845E-005
R = 1.0000
DL = 0.03193 ppb
BEC = 0.0434 ppb

Weight: <None>
Min Conc: <None>

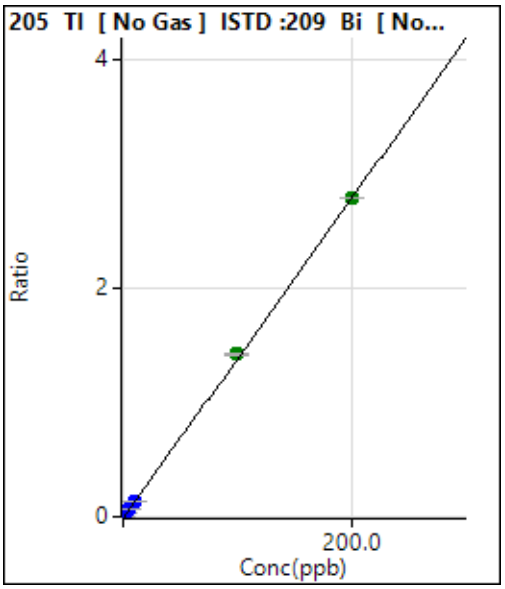
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	40.00	0.0000	P	51.3	
2	☐	2.000	1.758	26612.02	0.0109	P	3.0	-12.1
3	☐	5.000	4.381	67461.87	0.0272	P	1.1	-12.4
4	☐	10.000	9.063	138606.93	0.0564	P	2.6	-9.4
5	☐	100.000	98.375	1446057.06	0.6116	A	1.0	-1.6
6	☐	200.000	200.877	2883971.94	1.2488	A	0.6	0.4

y = 0.0062 * x + 1.6640E-005
R = 1.0000
DL = 0.004123 ppb
BEC = 0.002677 ppb

Weight: <None>
Min Conc: <None>

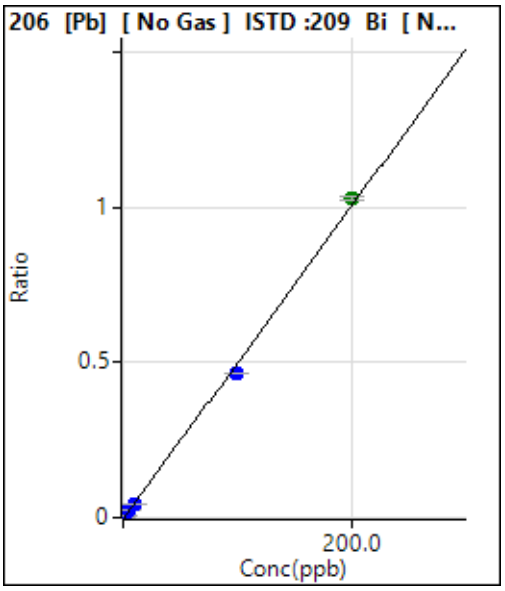


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	63.33	0.0000	P	54.4	
2	☐	2.000	1.865	63699.04	0.0262	P	1.9	-6.7
3	☐	5.000	4.647	161475.22	0.0652	P	1.6	-7.1
4	☐	10.000	9.387	324004.72	0.1317	P	1.2	-6.1
5	☐	100.000	101.634	3371844.01	1.4261	A	1.3	1.6
6	☐	200.000	199.224	6455167.82	2.7954	A	0.5	-0.4

y = 0.0140 * x + 2.6096E-005
R = 0.9999
DL = 0.003033 ppb
BEC = 0.00186 ppb

Weight: <None>
Min Conc: <None>

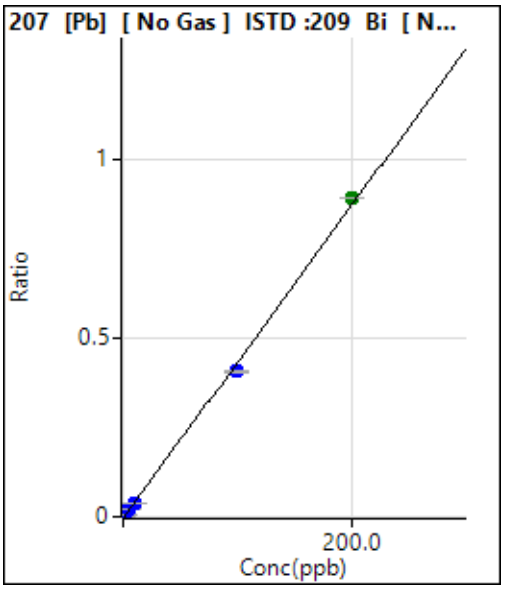
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	303.34	0.0001	P	15.0	
2	☐	2.000	1.795	22343.72	0.0092	P	0.9	-10.3
3	☐	5.000	4.444	55852.01	0.0226	P	0.4	-11.1
4	☐	10.000	9.006	112141.24	0.0456	P	2.6	-9.9
5	☐	100.000	92.528	1104982.90	0.4673	P	0.0	-7.5
6	☐	200.000	203.802	2376639.13	1.0291	A	1.1	1.9

y = 0.0050 * x + 1.2586E-004
R = 0.9991
DL = 0.01123 ppb
BEC = 0.02493 ppb

Weight: <None>
Min Conc: <None>

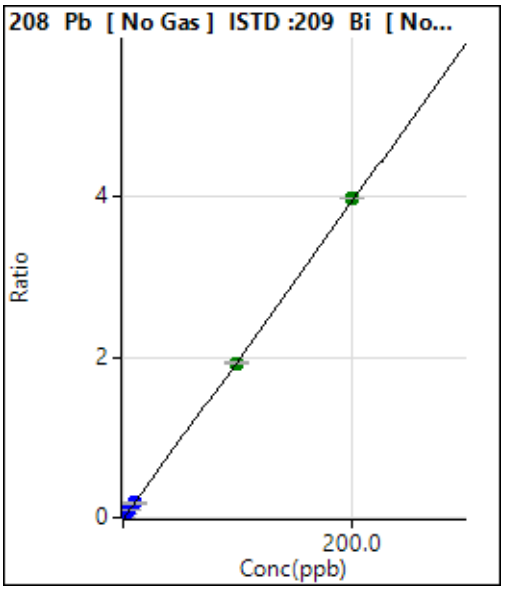


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	210.01	0.0001	P	14.3	
2	☐	2.000	1.738	18731.00	0.0077	P	2.6	-13.1
3	☐	5.000	4.434	48317.23	0.0195	P	1.3	-11.3
4	☐	10.000	9.016	97382.44	0.0396	P	3.4	-9.8
5	☐	100.000	92.733	961084.75	0.4065	P	0.9	-7.3
6	☐	200.000	203.699	2061619.39	0.8927	A	0.1	1.8

y = 0.0044 * x + 8.7127E-005
R = 0.9991
DL = 0.008531 ppb
BEC = 0.01988 ppb

Weight: <None>
Min Conc: <None>

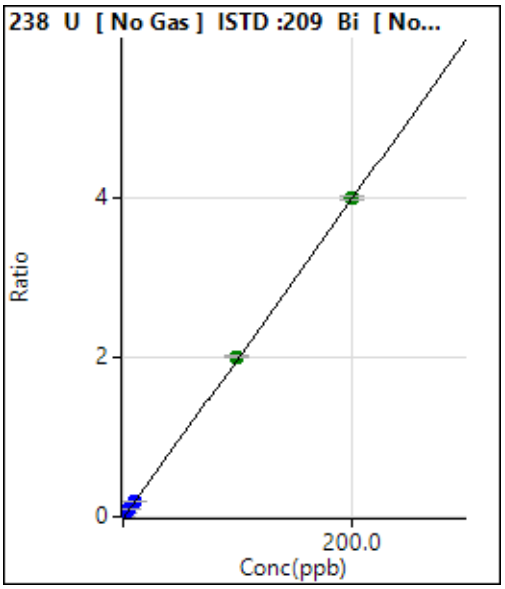
Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1016.71	0.0004	P	2.2	
2	☐	2.000	1.821	88575.50	0.0364	P	1.1	-9.0
3	☐	5.000	4.499	221252.86	0.0894	P	0.7	-10.0
4	☐	10.000	9.171	447032.27	0.1818	P	2.6	-8.3
5	☐	100.000	97.328	4551448.71	1.9249	A	0.8	-2.7
6	☐	200.000	201.392	9197262.93	3.9826	A	0.4	0.7

y = 0.0198 * x + 4.2123E-004
R = 0.9999
DL = 0.001415 ppb
BEC = 0.0213 ppb

Weight: <None>
Min Conc: <None>

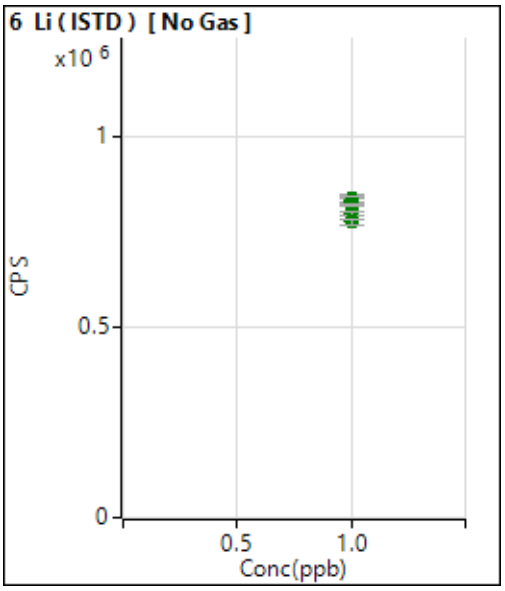


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3.33	0.0000	P	173.2	
2	☐	2.000	1.824	88629.32	0.0364	P	0.7	-8.8
3	☐	5.000	4.491	222079.12	0.0897	P	2.2	-10.2
4	☐	10.000	9.280	455924.11	0.1854	P	1.8	-7.2
5	☐	100.000	100.300	4737348.05	2.0037	A	1.4	0.3
6	☐	200.000	199.901	9221955.69	3.9934	A	0.6	0.0

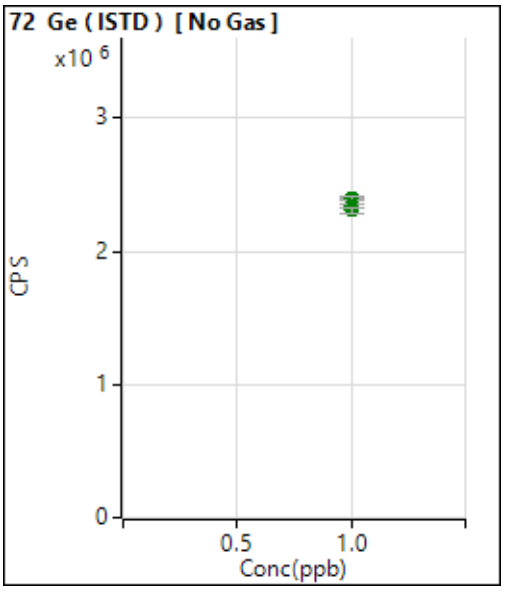
y = 0.0200 * x + 1.3724E-006
R = 1.0000
DL = 0.000357 ppb
BEC = 6.87E-05 ppb

Weight: <None>
Min Conc: <None>

Calibration for 166_ICV.d

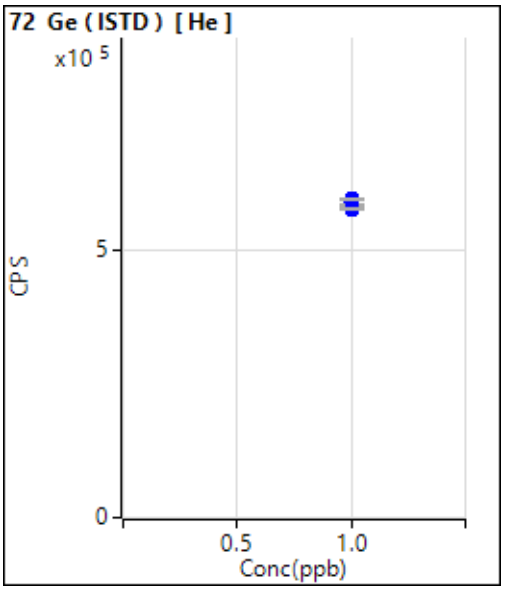


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		839052.94		A	2.6	
2	☐	1.000		829475.28		A	2.1	
3	☐	1.000		832336.79		A	2.6	
4	☐	1.000		822479.99		A	0.8	
5	☐	1.000		796908.73		A	1.5	
6	☐	1.000		777082.83		A	2.1	

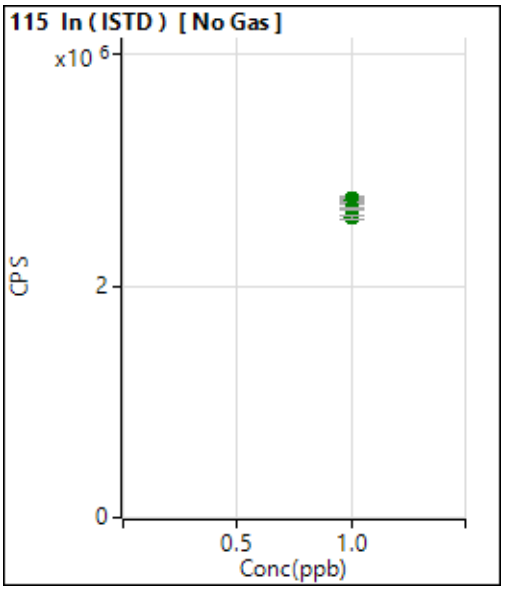


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2387222.36		A	0.4	
2	☐	1.000		2395304.81		A	0.7	
3	☐	1.000		2379728.35		A	1.6	
4	☐	1.000		2399767.88		A	1.1	
5	☐	1.000		2337324.65		A	1.3	
6	☐	1.000		2308506.22		A	1.7	

Calibration for 166_ICV.d

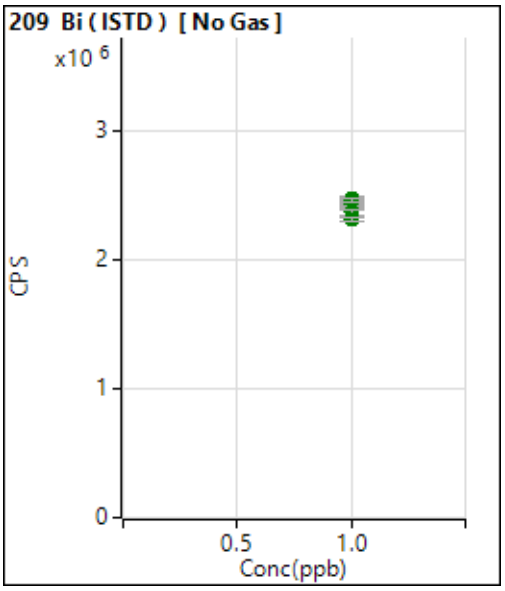


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		589069.89		P	1.4	
2	☐	1.000		595842.33		P	0.3	
3	☐	1.000		593656.89		P	0.5	
4	☐	1.000		582632.71		P	0.7	
5	☐	1.000		592952.67		P	0.4	
6	☐	1.000		575305.88		P	0.8	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2718731.60		A	1.5	
2	☐	1.000		2737850.42		A	2.1	
3	☐	1.000		2756566.87		A	0.4	
4	☐	1.000		2718971.55		A	0.7	
5	☐	1.000		2668537.40		A	0.5	
6	☐	1.000		2587534.48		A	1.0	

Calibration for 166_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		2414089.44		A	1.6	
2	☐	1.000		2431866.42		A	0.7	
3	☐	1.000		2475668.56		A	0.9	
4	☐	1.000		2459760.43		A	1.2	
5	☐	1.000		2364680.85		A	1.7	
6	☐	1.000		2309296.58		A	0.9	

Sample Report

Sample Table

Sample Name	LLCCV2
Data File Name	167LCV2.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T20:09:15-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	159CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	1.890	1.890	4.08	68226	0.00	2	
Be	9	1	No Gas	1.871	1.871	6.29	6453	0.03	2	
V	51	2	He	1.708	1.708	2.93	12877	0.01	2	
Cr	52	2	He	1.944	1.944	3.35	15275	0.01	2	
Fe	56	2	He	207.809	207.809	0.72	1371639	0.02	200	
Se	78	2	He	1.800	1.800	10.96	279	0.65	2	
As	75	2	He	2.025	2.025	2.24	2351	0.09	2	
Ca	44	2	He	190.037	190.037	4.24	6245	3.04	200	
Na	23	2	He	181.207	181.207	0.25	298800	0.06	200	
Mg	24	2	He	186.122	186.122	1.75	108278	0.17	200	
K	39	2	He	186.089	186.089	0.64	167249	0.11	200	
Mn	55	2	He	1.988	1.988	4.37	9480	0.02	2	
Co	59	2	He	1.860	1.860	0.82	23487	0.01	2	
Ni	60	2	He	3.040	3.040	3.76	11302	0.03	2	NewName Main CR1 Failed
Cu	63	2	He	3.355	3.355	2.21	35326	0.01	2	NewName Main CR1 Failed
Zn	66	2	He	2.054	2.054	5.44	3387	0.06	2	
Al	27	2	He	2.319	2.319	23.87	1417	0.16	2	
B	11	1	No Gas	17.205	17.205	1.52	41538	0.04	10	NewName Main CR1 Failed
Al	27	1	No Gas	1.977	1.977	3.32	81280	0.00	2	
Si	28	1	No Gas	11.851	11.851	6.47	433985	0.00	10	
Ag	107	1	No Gas	1.940	1.940	1.84	39238	0.00	2	
Cd	111	1	No Gas	1.907	1.907	3.14	7489	0.03	2	
Sr	88	1	No Gas	1.920	1.920	0.51	69762	0.00	2	
Mo	95	1	No Gas	2.030	2.030	2.11	14134	0.01	2	
Sn	118	1	No Gas	1.838	1.838	0.95	22520	0.01	2	
Sb	121	1	No Gas	1.900	1.900	4.20	32013	0.01	2	
Ba	137	1	No Gas	2.002	2.002	2.73	11192	0.02	2	
Tl	205	1	No Gas	1.925	1.925	1.11	66427	0.00	2	
Tl	203	1	No Gas	1.802	1.802	2.74	27564	0.01	2	
Pb	208	1	No Gas	1.865	1.865	1.14	91603	0.00	2	
U	238	1	No Gas	1.841	1.841	1.04	90345	0.00	2	
Ca	43	2	He	182.870	182.870	24.65	350	52.25	200	
Sb	121	2	He	1.927	1.927	1.52	14762	0.01	2	
Ti	47	2	He	2.149	2.149	10.48	433	0.50	200	
Cu	63	1	No Gas	3.416	3.416	1.33	61968	0.01	2	NewName Main CR1 Failed
Se	82	1	No Gas	2.297	2.297	25.73	166	1.38	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	837101	2.17	839053	99.77	70	120	
Ge	72	2	He	595713	0.89	589070	101.13	70	120	
Ge	72	1	No Gas	2413598	0.89	2387222	101.10	70	120	
In	115	1	No Gas	2734433	0.73	2718732	100.58	70	120	
Bi	209	1	No Gas	2456473	0.31	2414089	101.76	70	120	

Sample Report

Sample Table

Sample Name	LLCCV5
Data File Name	168LCV5.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T20:11:09-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	159CALB.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	4.748	4.748	4.96	101354	0.00	5	
Be	9	1	No Gas	4.780	4.780	3.25	16083	0.03	5	
V	51	2	He	4.696	4.696	1.16	31503	0.01	5	
Cr	52	2	He	4.781	4.781	1.63	37221	0.01	5	
Fe	56	2	He	508.988	508.988	1.32	3387488	0.02	500	
Se	78	2	He	4.926	4.926	5.83	537	0.92	5	
As	75	2	He	4.904	4.904	3.97	5582	0.09	5	
Ca	44	2	He	493.848	493.848	3.19	15682	3.15	500	
Na	23	2	He	455.531	455.531	0.47	592772	0.08	500	
Mg	24	2	He	464.009	464.009	1.47	272924	0.17	500	
K	39	2	He	460.301	460.301	0.33	337467	0.14	500	
Mn	55	2	He	4.878	4.878	1.07	22846	0.02	5	
Co	59	2	He	4.721	4.721	1.29	60347	0.01	5	
Ni	60	2	He	4.532	4.532	3.38	16193	0.03	5	
Cu	63	2	He	4.313	4.313	0.58	44486	0.01	5	
Zn	66	2	He	4.939	4.939	3.91	7772	0.06	5	
Al	27	2	He	4.832	4.832	20.55	2097	0.23	5	
B	11	1	No Gas	27.019	27.019	2.01	60624	0.04	25	
Al	27	1	No Gas	4.462	4.462	5.16	121285	0.00	5	
Si	28	1	No Gas	25.395	25.395	5.64	531591	0.00	25	
Ag	107	1	No Gas	4.702	4.702	1.06	95812	0.00	5	
Cd	111	1	No Gas	4.904	4.904	1.00	19578	0.03	5	
Sr	88	1	No Gas	4.693	4.693	0.66	170593	0.00	5	
Mo	95	1	No Gas	4.794	4.794	2.38	33897	0.01	5	
Sn	118	1	No Gas	4.548	4.548	2.82	55681	0.01	5	
Sb	121	1	No Gas	4.679	4.679	2.86	78293	0.01	5	
Ba	137	1	No Gas	4.767	4.767	0.27	26781	0.02	5	
Tl	205	1	No Gas	4.714	4.714	1.62	163214	0.00	5	
Tl	203	1	No Gas	4.480	4.480	1.46	68735	0.01	5	
Pb	208	1	No Gas	4.593	4.593	0.50	225089	0.00	5	
U	238	1	No Gas	4.630	4.630	0.70	228132	0.00	5	
Ca	43	2	He	463.328	463.328	8.75	863	53.66	500	
Sb	121	2	He	4.647	4.647	1.16	35809	0.01	5	
Ti	47	2	He	4.552	4.552	12.82	930	0.49	5	
Cu	63	1	No Gas	4.313	4.313	1.83	75911	0.01	5	
Se	82	1	No Gas	5.705	5.705	19.86	921	0.62	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	816842	1.93	839053	97.35	70	120	
Ge	72	2	He	603554	0.25	589070	102.46	70	120	
Ge	72	1	No Gas	2414108	1.59	2387222	101.13	70	120	

Sample Report

In	115	1	No Gas	2782297	0.86	2718732	102.34	70	120	
Bi	209	1	No Gas	2466832	1.00	2414089	102.18	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICCB
Data File Name	169_ICB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T20:13:02-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	159CALB.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	0.053	210.9	44465	0.4	0.5	
Be	9	1	No Gas	0.015	160.2	53	149.5	0.5	
V	51	2	He	-0.245	-5.0	987	8.0	2.5	
Cr	52	2	He	0.162	15.3	1797	10.0	2.5	
Fe	56	2	He	-0.042	-114.0	10865	2.4	100	
Se	78	2	He	-0.137	-170.9	124	14.8	1	
As	75	2	He	-0.051	-28.2	74	21.2	2.5	
Ca	44	2	He	-4.410	-11.7	340	5.1	100	
Na	23	2	He	-6.567	-16.2	103528	1.2	100	
Mg	24	2	He	-0.132	-112.4	290	30.1	100	
K	39	2	He	-2.896	-32.9	53313	0.8	100	
Mn	55	2	He	0.022	45.5	593	7.0	2.5	
Co	59	2	He	0.003	58.5	67	31.2	2.5	
Ni	60	2	He	-0.378	-3.2	580	6.9	2.5	
Cu	63	2	He	-0.485	-1.1	937	4.8	1	
Zn	66	2	He	0.185	18.0	617	8.0	2.5	
Al	27	2	He	-2.142	-5.4	257	11.2	5	
B	11	1	No Gas	3.490	7.0	12487	0.7	0.5	ICB Main CR1 Failed
Al	27	1	No Gas	-2.082	-1.7	15669	2.6	5	
Si	28	1	No Gas	-9.421	-6.4	275763	0.4	10	
Ag	107	1	No Gas	0.002	870.3	707	58.1	2.5	
Cd	111	1	No Gas	0.024	182.5	103	164.9	1	
Sr	88	1	No Gas	-0.018	-150.6	1347	67.9	2.5	
Mo	95	1	No Gas	0.007	233.3	97	119.9	2.5	
Sn	118	1	No Gas	0.045	47.8	1194	21.1	5	
Sb	121	1	No Gas	0.030	97.0	860	53.0	2.5	
Ba	137	1	No Gas	-0.005	-533.8	210	61.9	2.5	
Tl	205	1	No Gas	0.019	143.4	687	129.1	1	
Tl	203	1	No Gas	0.012	164.2	210	132.0	1	
Pb	208	1	No Gas	0.018	97.9	1887	42.9	2.5	
U	238	1	No Gas	0.009	170.7	450	169.4	2.5	
Ca	43	2	He	-0.123	-10350.3	23	99.0	100	
Sb	121	2	He	0.016	10.0	303	3.8	2.5	
Ti	47	2	He	0.033	86.6	7	86.6	2.5	
Se	82	1	No Gas	0.527	238.5	-224	-124.1	1	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	821924	3.40	839053	97.96	70	120	
Ge	72	2	He	599651	0.50	589070	101.80	70	120	
Ge	72	1	No Gas	2370959	1.18	2387222	99.32	70	120	
In	115	1	No Gas	2727599	1.73	2718732	100.33	70	120	
Bi	209	1	No Gas	2422418	2.14	2414089	100.35	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	190_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T20:52:26-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	159CALB.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	97.654	2.038	1250829	2.69	100	97.7	90	110	
Be	9	1	No Gas	95.569	1.193	326353	1.35	100	95.6	90	110	
V	51	2	He	100.211	0.193	617353	0.49	100	100.2	90	110	
Cr	52	2	He	96.945	0.566	739128	0.70	100	96.9	90	110	
Fe	56	2	He	10075.153	0.662	66416371	0.34	10000	100.8	90	110	
Se	78	2	He	97.662	1.000	8028	1.31	100	97.7	90	110	
As	75	2	He	99.531	0.891	110055	0.56	100	99.5	90	110	
Ca	44	2	He	9790.293	0.235	299958	0.53	10000	97.9	90	110	
Na	23	2	He	10035.777	0.427	10653543	0.75	10000	100.4	90	110	
Mg	24	2	He	10055.277	0.557	5869195	0.74	10000	100.6	90	110	
K	39	2	He	9956.439	0.253	6116537	0.11	10000	99.6	90	110	
Mn	55	2	He	99.130	0.322	451756	0.40	100	99.1	90	110	
Co	59	2	He	102.858	0.914	1305934	1.19	100	102.9	90	110	
Ni	60	2	He	100.473	0.131	319134	0.23	100	100.5	90	110	
Cu	63	2	He	96.170	0.630	872429	0.33	100	96.2	90	110	
Zn	66	2	He	100.819	0.326	151026	0.08	100	100.8	90	110	
Al	27	2	He	99.150	1.250	26793	1.06	100	99.1	90	110	
B	11	1	No Gas	496.306	1.501	1037454	2.18	500	99.3	90	110	
Al	27	1	No Gas	100.268	0.784	1661020	0.82	100	100.3	90	110	
Si	28	1	No Gas	495.573	1.465	3912962	0.64	5000	9.9	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	101.144	2.262	2054026	2.30	100	101.1	90	110	
Cd	111	1	No Gas	97.741	1.446	391315	1.49	100	97.7	90	110	
Sr	88	1	No Gas	100.000	1.710	3605617	1.74	100	100.0	90	110	
Mo	95	1	No Gas	99.646	0.930	705970	1.00	100	99.6	90	110	
Sn	118	1	No Gas	100.725	0.800	1223281	0.87	100	100.7	90	110	
Sb	121	1	No Gas	103.600	1.275	1722752	0.95	100	103.6	90	110	
Ba	137	1	No Gas	99.368	1.314	555316	1.39	100	99.4	90	110	
Tl	205	1	No Gas	102.122	0.916	3552301	0.70	100	102.1	90	110	
Tl	203	1	No Gas	101.324	1.882	1561524	1.22	100	101.3	90	110	
Pb	208	1	No Gas	97.178	1.416	4764686	1.26	100	97.2	90	110	
U	238	1	No Gas	99.201	1.830	4912770	1.66	100	99.2	90	110	
Ca	43	2	He	9948.667	1.663	17939	1.67	10000	99.5	90	110	
Sb	121	2	He	95.486	0.242	727550	0.38	100	95.5	90	110	
Ti	47	2	He	99.989	1.565	20295	1.47	100	100.0	90	110	
Cu	63	1	No Gas	101.879	2.329	1590096	2.19	100	101.9	90	110	
Se	82	1	No Gas	101.211	0.440	22088	1.06	100	101.2	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	828910	1.51	839053	98.79	70	120	
Ge	72	2	He	599700	0.35	589070	101.80	70	120	
Ge	72	1	No Gas	2410106	0.80	2387222	100.96	70	120	
In	115	1	No Gas	2791515	0.11	2718732	102.68	70	120	
Bi	209	1	No Gas	2479175	0.87	2414089	102.70	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	191_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T20:54:13-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	159CALB.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	0.016	607.0	45453	2.2	0.5	
Be	9	1	No Gas	0.005	113.9	22	96.1	0.5	
V	51	2	He	-0.301	-3.6	640	10.5	2.5	
Cr	52	2	He	0.106	5.8	1370	3.3	2.5	
Fe	56	2	He	0.302	30.2	13113	4.2	100	
Se	78	2	He	-0.201	-86.9	119	11.5	2	
As	75	2	He	-0.041	-41.6	84	22.8	2.5	
Ca	44	2	He	-1.651	-163.8	423	19.1	100	
Na	23	2	He	-6.404	-13.2	103509	0.6	100	
Mg	24	2	He	0.819	31.0	843	17.3	100	
K	39	2	He	-0.802	-221.4	54487	1.7	100	
Mn	55	2	He	0.055	21.0	743	7.4	2.5	
Co	59	2	He	0.003	53.7	73	31.5	2.5	
Ni	60	2	He	-0.449	-2.3	357	9.0	2.5	
Cu	63	2	He	-0.472	-2.2	1047	8.8	2	
Zn	66	2	He	0.394	3.2	927	2.2	2.5	
Al	27	2	He	-1.732	-11.2	363	13.9	5	
B	11	1	No Gas	10.880	8.1	28629	6.6	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-1.775	-1.5	21070	1.0	5	
Si	28	1	No Gas	-7.565	-9.8	296819	3.1	10	
Ag	107	1	No Gas	-0.011	-21.6	463	10.6	2.5	
Cd	111	1	No Gas	0.001	537.2	13	114.6	1	
Sr	88	1	No Gas	-0.015	-7.0	1513	3.4	2.5	
Mo	95	1	No Gas	0.002	69.4	67	17.3	2.5	
Sn	118	1	No Gas	0.025	19.2	997	5.5	5	
Sb	121	1	No Gas	0.027	12.6	843	8.9	2.5	
Ba	137	1	No Gas	-0.012	-48.7	180	19.2	2.5	
Tl	205	1	No Gas	0.020	37.2	780	33.3	1	
Tl	203	1	No Gas	0.016	52.2	293	43.8	1	
Pb	208	1	No Gas	0.010	22.6	1553	7.3	2.5	
U	238	1	No Gas	0.002	9.3	120	8.3	2.5	
Ca	43	2	He	-1.913	-292.8	20	50.0	100	
Sb	121	2	He	0.020	4.4	337	1.7	2.5	
Ti	47	2	He	0.049	100.2	10	100.0	2.5	
Cu	63	1	No Gas	-0.461	-0.3	1720	1.0	2.5	
Se	82	1	No Gas	0.117	1151.4	-318	-95.0	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	848362	0.48	839053	101.11	70	120	
Ge	72	2	He	598555	0.39	589070	101.61	70	120	
Ge	72	1	No Gas	2435600	2.23	2387222	102.03	70	120	
In	115	1	No Gas	2859189	0.75	2718732	105.17	70	120	
Bi	209	1	No Gas	2528642	0.78	2414089	104.75	70	120	

Sample Report

Sample Table

Sample Name	MBLK-182759
Data File Name	192SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T20:56:06-05:00
Sample Type	Sample
Dilution	1
Comment	DOD TW 182759
ISTD Ref FileName	159CALB.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	0.004	0.004	361.21	46552	0.00	2000	
Be	9	1	No Gas	0.004	0.004	44.54	17	0.02	2000	
V	51	2	He	-0.291	-0.291	-0.80	734	-0.04	2000	
Cr	52	2	He	0.056	0.056	28.01	1043	0.01	2000	
Fe	56	2	He	1.232	1.232	3.43	20215	0.01	200000	
Se	78	2	He	-0.077	-0.077	-112.42	135	-0.06	2000	
As	75	2	He	-0.048	-0.048	-41.04	81	-0.06	2000	
Ca	44	2	He	8.672	8.672	27.20	777	1.12	200000	
Na	23	2	He	-11.385	-11.385	-4.80	103337	-0.01	200000	
Mg	24	2	He	11.435	11.435	4.36	7389	0.15	200000	
K	39	2	He	-3.119	-3.119	-25.66	55810	-0.01	200000	
Mn	55	2	He	0.048	0.048	26.61	750	0.01	2000	
Co	59	2	He	0.000	0.000	541.95	37	0.00	2000	
Ni	60	2	He	-0.510	-0.510	-2.06	173	-0.29	2000	
Cu	63	2	He	-0.408	-0.408	-2.45	1710	-0.02	2000	
Zn	66	2	He	0.887	0.887	8.11	1747	0.05	2000	
Al	27	2	He	4.275	4.275	9.42	2034	0.21	2000	
B	11	1	No Gas	6.021	6.021	3.94	18788	0.03	2000	
Al	27	1	No Gas	3.750	3.750	2.78	116996	0.00	2000	
Si	28	1	No Gas	86.542	86.542	1.90	1035553	0.01	2000	
Ag	107	1	No Gas	-0.014	-0.014	-5.90	417	0.00	2000	
Cd	111	1	No Gas	-0.003	-0.003	0.00	0	#DIV/0!	2000	
Sr	88	1	No Gas	0.013	0.013	35.06	2697	0.00	2000	
Mo	95	1	No Gas	0.004	0.004	153.89	83	0.00	2000	
Sn	118	1	No Gas	0.061	0.061	12.37	1507	0.00	2000	
Sb	121	1	No Gas	0.007	0.007	15.46	543	0.00	2000	
Ba	137	1	No Gas	0.196	0.196	12.72	1433	0.01	2000	
Tl	205	1	No Gas	0.002	0.002	7.71	143	0.00	2000	
Tl	203	1	No Gas	0.000	0.000	-1203.37	43	0.00	2000	
Pb	208	1	No Gas	0.011	0.011	32.00	1730	0.00	2000	
U	238	1	No Gas	0.000	0.000	66.37	27	0.00	2000	
Ca	43	2	He	4.598	4.598	567.96	33	13.79	200000	
Sb	121	2	He	0.010	0.010	37.28	273	0.00	2000	
Ti	47	2	He	0.078	0.078	34.54	17	0.47	2000	
Cu	63	1	No Gas	-0.395	-0.395	-2.40	2897	-0.01	2000	
Zn	66	1	No Gas	0.747	0.747	7.93	4327	0.02	2000	
Se	82	1	No Gas	-0.036	-0.036	-3251.98	-373	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	871574	1.14	839053	103.88	70	120	
Ge	72	2	He	629306	0.18	589070	106.83	70	120	
Ge	72	1	No Gas	2571344	1.00	2387222	107.71	70	120	
In	115	1	No Gas	2988410	0.99	2718732	109.92	70	120	

Sample Report

Bi	209	1	No Gas	2717486	0.57	2414089	112.57	70	120	

Sample Report

Sample Table

Sample Name	LCS-182759
Data File Name	193SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T20:57:59-05:00
Sample Type	Sample
Dilution	1
Comment	DOD TW 182759
ISTD Ref FileName	159CALB.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	107.184	107.184	1.81	1342074	0.01	2000	
Be	9	1	No Gas	52.782	52.782	1.09	176786	0.03	2000	
V	51	2	He	51.895	51.895	0.71	334339	0.02	2000	
Cr	52	2	He	50.313	50.313	0.63	399950	0.01	2000	
Fe	56	2	He	5232.225	5232.225	0.14	35942774	0.01	200000	
Se	78	2	He	52.347	52.347	1.97	4548	1.15	2000	
As	75	2	He	52.882	52.882	2.04	60986	0.09	2000	
Ca	44	2	He	5230.639	5230.639	2.48	167190	3.13	200000	
Na	23	2	He	5156.082	5156.082	0.45	5758651	0.09	200000	
Mg	24	2	He	5335.881	5335.881	0.83	3245098	0.16	200000	
K	39	2	He	5221.059	5221.059	0.90	3369061	0.15	200000	
Mn	55	2	He	52.354	52.354	0.61	248832	0.02	2000	
Co	59	2	He	49.217	49.217	0.75	651059	0.01	2000	
Ni	60	2	He	52.441	52.441	0.26	174432	0.03	2000	
Cu	63	2	He	51.014	51.014	1.33	484761	0.01	2000	
Zn	66	2	He	55.316	55.316	1.39	86491	0.06	2000	
Al	27	2	He	100.533	100.533	3.99	28289	0.36	2000	
B	11	1	No Gas	512.922	512.922	1.49	1051306	0.05	2000	
Al	27	1	No Gas	101.422	101.422	2.09	1759579	0.01	2000	
Si	28	1	No Gas	585.000	585.000	0.44	4774194	0.01	2000	
Ag	107	1	No Gas	46.214	46.214	1.39	983421	0.00	2000	
Cd	111	1	No Gas	51.317	51.317	1.46	215218	0.02	2000	
Sr	88	1	No Gas	104.782	104.782	2.72	3956720	0.00	2000	
Mo	95	1	No Gas	50.902	50.902	1.72	377748	0.01	2000	
Sn	118	1	No Gas	103.925	103.925	1.98	1321983	0.01	2000	
Sb	121	1	No Gas	50.610	50.610	2.10	881904	0.01	2000	
Ba	137	1	No Gas	51.240	51.240	0.78	300088	0.02	2000	
Tl	205	1	No Gas	52.795	52.795	0.89	1926065	0.00	2000	
Tl	203	1	No Gas	47.521	47.521	1.79	768122	0.01	2000	
Pb	208	1	No Gas	50.289	50.289	0.68	2586562	0.00	2000	
U	238	1	No Gas	103.658	103.658	0.78	5384197	0.00	2000	
Ca	43	2	He	5400.168	5400.168	3.06	10157	53.17	200000	
Sb	121	2	He	49.998	49.998	0.93	396993	0.01	2000	
Ti	47	2	He	156.310	156.310	0.66	33057	0.47	2000	
Cu	63	1	No Gas	50.505	50.505	1.85	830520	0.01	2000	
Zn	66	1	No Gas	55.111	55.111	1.89	240450	0.02	2000	
Se	82	1	No Gas	54.093	54.093	1.98	12201	0.44	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	813013	1.38	839053	96.90	70	120	
Ge	72	2	He	624832	0.67	589070	106.07	70	120	
Ge	72	1	No Gas	2525312	1.32	2387222	105.78	70	120	
In	115	1	No Gas	2924218	1.11	2718732	107.56	70	120	

Sample Report

Bi	209	1	No Gas	2600096	0.73	2414089	107.71	70	120	

Sample Report

Sample Table

Sample Name	HS22080927-01MS
Data File Name	196SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T21:03:33-05:00
Sample Type	Sample
Dilution	1
Comment	DOD TW 182759
ISTD Ref FileName	159CALB.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	113.210	113.210	2.80	1393413	0.01	2000	
Be	9	1	No Gas	51.823	51.823	1.31	170935	0.03	2000	
V	51	2	He	51.165	51.165	0.25	328195	0.02	2000	
Cr	52	2	He	175.793	175.793	0.41	1389638	0.01	2000	
Fe	56	2	He	5603.387	5603.387	0.50	38318154	0.01	200000	
Se	78	2	He	54.675	54.675	1.63	4723	1.16	2000	
As	75	2	He	52.207	52.207	1.35	59938	0.09	2000	
Ca	44	2	He	6814.471	6814.471	1.46	216712	3.14	200000	
Na	23	2	He	44334.448	44334.448	0.78	48422444	0.09	200000	
Mg	24	2	He	6322.227	6322.227	2.14	3827445	0.17	200000	
K	39	2	He	5840.767	5840.767	0.76	3745340	0.16	200000	
Mn	55	2	He	54.725	54.725	1.20	258913	0.02	2000	
Co	59	2	He	48.547	48.547	0.45	639325	0.01	2000	
Ni	60	2	He	93.989	93.989	0.63	309756	0.03	2000	
Cu	63	2	He	50.356	50.356	0.49	476429	0.01	2000	
Zn	66	2	He	57.389	57.389	0.19	89319	0.06	2000	
Al	27	2	He	206.339	206.339	0.87	56917	0.36	2000	
B	11	1	No Gas	639.215	639.215	1.17	1289080	0.05	2000	
Al	27	1	No Gas	203.072	203.072	0.75	3488345	0.01	2000	
Si	28	1	No Gas	17371.654	17371.654	1.64	131915841	0.01	2000	>LDR
Ag	107	1	No Gas	45.041	45.041	0.72	952705	0.00	2000	
Cd	111	1	No Gas	51.468	51.468	0.71	214539	0.02	2000	
Sr	88	1	No Gas	133.444	133.444	0.71	5008771	0.00	2000	
Mo	95	1	No Gas	50.843	50.843	0.23	375059	0.01	2000	
Sn	118	1	No Gas	103.298	103.298	0.47	1306158	0.01	2000	
Sb	121	1	No Gas	49.442	49.442	0.91	865773	0.01	2000	
Ba	137	1	No Gas	106.789	106.789	1.07	621316	0.02	2000	
Tl	205	1	No Gas	52.236	52.236	0.53	1930593	0.00	2000	
Tl	203	1	No Gas	46.204	46.204	0.84	756571	0.01	2000	
Pb	208	1	No Gas	49.438	49.438	0.18	2575978	0.00	2000	
U	238	1	No Gas	102.367	102.367	0.54	5386308	0.00	2000	
Ca	43	2	He	7098.496	7098.496	2.44	13283	53.44	200000	
Sb	121	2	He	49.155	49.155	0.40	388551	0.01	2000	
Ti	47	2	He	151.181	151.181	1.35	31827	0.48	2000	
Cu	63	1	No Gas	49.789	49.789	1.06	822849	0.01	2000	
Zn	66	1	No Gas	57.828	57.828	1.60	253482	0.02	2000	
Se	82	1	No Gas	55.843	55.843	5.88	12670	0.44	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	800752	2.19	839053	95.44	70	120	
Ge	72	2	He	622010	0.58	589070	105.59	70	120	
Ge	72	1	No Gas	2537337	1.23	2387222	106.29	70	120	
In	115	1	No Gas	2906417	0.42	2718732	106.90	70	120	

Sample Report

Bi	209	1	No Gas	2633965	1.14	2414089	109.11	70	120	

Sample Report

Sample Table

Sample Name	HS22080927-01MSD
Data File Name	198SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T21:07:26-05:00
Sample Type	Sample
Dilution	1
Comment	DOD TW 182759
ISTD Ref FileName	159CALB.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	109.236	109.236	2.54	1383355	0.01	2000	
Be	9	1	No Gas	50.545	50.545	1.41	171332	0.03	2000	
V	51	2	He	50.959	50.959	0.32	328019	0.02	2000	
Cr	52	2	He	172.843	172.843	1.93	1371044	0.01	2000	
Fe	56	2	He	5536.140	5536.140	0.88	37989971	0.01	200000	
Se	78	2	He	53.399	53.399	1.53	4632	1.15	2000	
As	75	2	He	51.751	51.751	1.11	59622	0.09	2000	
Ca	44	2	He	6778.718	6778.718	0.29	216314	3.13	200000	
Na	23	2	He	43983.284	43983.284	0.47	48206331	0.09	200000	
Mg	24	2	He	6268.808	6268.808	0.31	3808483	0.16	200000	
K	39	2	He	5802.597	5802.597	0.95	3734116	0.16	200000	
Mn	55	2	He	54.563	54.563	0.51	259034	0.02	2000	
Co	59	2	He	48.237	48.237	0.77	637438	0.01	2000	
Ni	60	2	He	93.659	93.659	0.29	309756	0.03	2000	
Cu	63	2	He	50.268	50.268	0.45	477266	0.01	2000	
Zn	66	2	He	57.687	57.687	0.44	90095	0.06	2000	
Al	27	2	He	209.268	209.268	0.99	57912	0.36	2000	
B	11	1	No Gas	604.918	604.918	2.63	1253815	0.05	2000	
Al	27	1	No Gas	208.920	208.920	3.04	3548720	0.01	2000	
Si	28	1	No Gas	17314.934	17314.934	1.70	130104338	0.01	2000	>LDR
Ag	107	1	No Gas	44.788	44.788	1.43	943834	0.00	2000	
Cd	111	1	No Gas	51.576	51.576	1.14	214194	0.02	2000	
Sr	88	1	No Gas	132.186	132.186	0.54	4943384	0.00	2000	
Mo	95	1	No Gas	50.745	50.745	1.19	372943	0.01	2000	
Sn	118	1	No Gas	102.882	102.882	0.36	1296071	0.01	2000	
Sb	121	1	No Gas	49.485	49.485	1.36	857395	0.01	2000	
Ba	137	1	No Gas	106.325	106.325	1.29	616321	0.02	2000	
Tl	205	1	No Gas	51.758	51.758	1.99	1919924	0.00	2000	
Tl	203	1	No Gas	45.754	45.754	0.77	752023	0.01	2000	
Pb	208	1	No Gas	49.298	49.298	0.39	2578157	0.00	2000	
U	238	1	No Gas	101.579	101.579	0.18	5364653	0.00	2000	
Ca	43	2	He	7164.788	7164.788	1.07	13453	53.26	200000	
Sb	121	2	He	48.557	48.557	0.65	385159	0.01	2000	
Ti	47	2	He	153.286	153.286	2.16	32385	0.47	2000	
Cu	63	1	No Gas	50.127	50.127	1.30	819662	0.01	2000	
Zn	66	1	No Gas	57.498	57.498	1.65	249381	0.02	2000	
Se	82	1	No Gas	55.517	55.517	1.15	12459	0.45	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	822856	1.55	839053	98.07	70	120	
Ge	72	2	He	624173	0.39	589070	105.96	70	120	
Ge	72	1	No Gas	2510775	1.56	2387222	105.18	70	120	
In	115	1	No Gas	2895691	0.52	2718732	106.51	70	120	

Sample Report

Bi	209	1	No Gas	2643713	0.42	2414089	109.51	70	120	

Sample Report

Sample Table

Sample Name	HS22080927-01PDS
Data File Name	199SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T21:09:16-05:00
Sample Type	Sample
Dilution	1
Comment	DOD TW 182759
ISTD Ref FileName	159CALB.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	111.859	111.859	1.98	1371312	0.01	2000	
Be	9	1	No Gas	100.719	100.719	2.28	330673	0.03	2000	
V	51	2	He	100.602	100.602	0.29	634865	0.02	2000	
Cr	52	2	He	214.881	214.881	1.58	1677331	0.01	2000	
Fe	56	2	He	10399.252	10399.252	0.09	70224596	0.01	200000	
Se	78	2	He	103.403	103.403	2.35	8697	1.19	2000	
As	75	2	He	102.278	102.278	0.71	115844	0.09	2000	
Ca	44	2	He	11525.879	11525.879	0.80	361639	3.19	200000	
Na	23	2	He	47968.923	47968.923	0.93	51731626	0.09	200000	
Mg	24	2	He	11025.215	11025.215	0.27	6592062	0.17	200000	
K	39	2	He	10547.807	10547.807	0.54	6634625	0.16	200000	
Mn	55	2	He	102.135	102.135	0.35	476772	0.02	2000	
Co	59	2	He	101.004	101.004	0.74	1313704	0.01	2000	
Ni	60	2	He	142.498	142.498	0.83	462863	0.03	2000	
Cu	63	2	He	98.047	98.047	1.37	910966	0.01	2000	
Zn	66	2	He	109.448	109.448	1.11	167908	0.07	2000	
Al	27	2	He	275.071	275.071	2.73	74659	0.37	2000	
B	11	1	No Gas	627.321	627.321	0.73	1259679	0.05	2000	
Al	27	1	No Gas	291.278	291.278	12.29	4867439	0.01	2000	
Si	28	1	No Gas	17274.298	17274.298	0.26	128317761	0.01	2000	>LDR
Ag	107	1	No Gas	100.232	100.232	1.02	2082135	0.00	2000	
Cd	111	1	No Gas	99.965	99.965	0.91	409260	0.02	2000	
Sr	88	1	No Gas	163.461	163.461	1.49	6024851	0.00	2000	
Mo	95	1	No Gas	99.084	99.084	0.96	717825	0.01	2000	
Sn	118	1	No Gas	121.672	121.672	1.63	1510590	0.01	2000	
Sb	121	1	No Gas	103.333	103.333	0.79	1769283	0.01	2000	
Ba	137	1	No Gas	153.524	153.524	1.30	877164	0.02	2000	
Tl	205	1	No Gas	101.282	101.282	0.09	3583282	0.00	2000	
Tl	203	1	No Gas	100.407	100.407	1.57	1574119	0.01	2000	
Pb	208	1	No Gas	98.343	98.343	0.49	4904493	0.00	2000	
U	238	1	No Gas	0.063	0.063	22.14	3181	0.00	2000	
Ca	43	2	He	11647.541	11647.541	4.36	21504	54.17	200000	
Sb	121	2	He	96.536	96.536	0.60	753451	0.01	2000	
Ti	47	2	He	236.639	236.639	0.83	49202	0.48	2000	
Cu	63	1	No Gas	103.803	103.803	2.85	1667848	0.01	2000	
Zn	66	1	No Gas	107.823	107.823	1.22	461412	0.02	2000	
Se	82	1	No Gas	109.840	109.840	3.22	24710	0.44	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	797234	3.43	839053	95.02	70	120	
Ge	72	2	He	614315	1.05	589070	104.29	70	120	
Ge	72	1	No Gas	2481750	2.30	2387222	103.96	70	120	
In	115	1	No Gas	2854944	3.22	2718732	105.01	70	120	

Sample Report

Bi	209	1	No Gas	2521455	1.97	2414089	104.45	70	120	

Sample Report

Sample Table

Sample Name	HS22080927-01SD
Data File Name	200SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T21:11:04-05:00
Sample Type	Sample
Dilution	5
Comment	DOD TW 182759
ISTD Ref FileName	159CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	1.389	6.944	11.75	62130	0.00	2000	
Be	9	1	No Gas	0.017	0.086	57.60	63	0.03	2000	
V	51	2	He	-0.037	-0.187	-12.34	2239	0.00	2000	
Cr	52	2	He	23.920	119.598	0.80	181163	0.01	2000	
Fe	56	2	He	96.684	483.422	0.77	642618	0.02	200000	
Se	78	2	He	0.558	2.788	45.21	179	0.31	2000	
As	75	2	He	-0.020	-0.102	-105.07	107	-0.02	2000	
Ca	44	2	He	361.876	1809.382	0.83	11442	3.16	200000	
Na	23	2	He	8057.853	40289.263	1.22	8499198	0.09	200000	
Mg	24	2	He	220.950	1104.752	0.75	128175	0.17	200000	
K	39	2	He	143.877	719.383	3.01	141401	0.10	200000	
Mn	55	2	He	0.825	4.123	8.10	4211	0.02	2000	
Co	59	2	He	0.061	0.306	21.68	800	0.01	2000	
Ni	60	2	He	8.556	42.778	2.58	28544	0.03	2000	
Cu	63	2	He	-0.248	-1.239	-5.76	3047	-0.01	2000	
Zn	66	2	He	1.044	5.222	4.87	1884	0.06	2000	
Al	27	2	He	16.177	80.886	5.15	5011	0.32	2000	
B	11	1	No Gas	34.872	174.359	3.24	78833	0.04	2000	
Al	27	1	No Gas	16.535	82.675	3.98	313359	0.01	2000	
Si	28	1	No Gas	3425.977	17129.887	1.02	24848742	0.01	2000	>LDR
Ag	107	1	No Gas	-0.011	-0.056	-9.84	457	0.00	2000	
Cd	111	1	No Gas	0.018	0.088	138.51	80	0.02	2000	
Sr	88	1	No Gas	5.763	28.814	1.26	212280	0.00	2000	
Mo	95	1	No Gas	0.127	0.636	6.56	960	0.01	2000	
Sn	118	1	No Gas	0.072	0.360	33.31	1563	0.00	2000	
Sb	121	1	No Gas	0.107	0.536	16.88	2154	0.00	2000	
Ba	137	1	No Gas	10.993	54.966	3.03	62393	0.02	2000	
Tl	205	1	No Gas	0.015	0.073	41.21	600	0.00	2000	
Tl	203	1	No Gas	0.017	0.085	62.59	317	0.01	2000	
Pb	208	1	No Gas	0.039	0.195	6.63	3100	0.00	2000	
U	238	1	No Gas	0.010	0.052	28.74	547	0.00	2000	
Ca	43	2	He	347.432	1737.158	10.24	643	54.00	200000	
Sb	121	2	He	0.106	0.531	16.76	983	0.01	2000	
Ti	47	2	He	0.348	1.739	51.46	70	0.50	2000	
Cu	63	1	No Gas	-0.201	-1.004	-11.55	5698	0.00	2000	
Zn	66	1	No Gas	0.943	4.713	3.69	4841	0.02	2000	
Se	82	1	No Gas	1.058	5.288	76.07	-110	-0.97	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	839485	2.49	839053	100.05	70	120	
Ge	72	2	He	594357	0.20	589070	100.90	70	120	
Ge	72	1	No Gas	2396413	2.20	2387222	100.39	70	120	
In	115	1	No Gas	2826337	2.13	2718732	103.96	70	120	

Sample Report

Bi	209	1	No Gas	2601007	1.35	2414089	107.74	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	201_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T21:12:57-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	159CALB.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	100.629	4.350	1224923	3.90	100	100.6	90	110	
Be	9	1	No Gas	96.405	2.968	313254	3.12	100	96.4	90	110	
V	51	2	He	100.242	0.607	603890	0.68	100	100.2	90	110	
Cr	52	2	He	96.782	0.402	721584	0.89	100	96.8	90	110	
Fe	56	2	He	10033.701	0.690	64681784	0.70	10000	100.3	90	110	
Se	78	2	He	97.953	2.637	7874	3.01	100	98.0	90	110	
As	75	2	He	100.300	1.271	108451	0.77	100	100.3	90	110	
Ca	44	2	He	9779.842	0.577	293013	0.55	10000	97.8	90	110	
Na	23	2	He	9945.567	0.974	10325631	1.44	10000	99.5	90	110	
Mg	24	2	He	9953.435	0.944	5681439	1.31	10000	99.5	90	110	
K	39	2	He	9804.878	0.799	5891011	0.35	10000	98.0	90	110	
Mn	55	2	He	99.175	0.214	441972	0.33	100	99.2	90	110	
Co	59	2	He	101.792	0.423	1263799	0.28	100	101.8	90	110	
Ni	60	2	He	100.165	0.756	311134	1.14	100	100.2	90	110	
Cu	63	2	He	95.315	0.579	845606	0.16	100	95.3	90	110	
Zn	66	2	He	99.524	0.820	145801	1.32	100	99.5	90	110	
Al	27	2	He	96.728	3.187	25581	3.11	100	96.7	90	110	
B	11	1	No Gas	497.802	2.843	990179	3.55	500	99.6	90	110	
Al	27	1	No Gas	99.154	3.517	1611603	2.31	100	99.2	90	110	
Si	28	1	No Gas	492.534	1.789	3818334	3.01	5000	9.9	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	99.973	1.630	1989442	3.81	100	100.0	90	110	
Cd	111	1	No Gas	98.306	1.610	385616	3.29	100	98.3	90	110	
Sr	88	1	No Gas	99.543	2.226	3515630	2.34	100	99.5	90	110	
Mo	95	1	No Gas	99.127	1.973	688013	2.97	100	99.1	90	110	
Sn	118	1	No Gas	94.328	1.464	1122872	4.58	100	94.3	90	110	
Sb	121	1	No Gas	103.673	1.068	1691844	3.19	100	103.7	90	110	
Ba	137	1	No Gas	98.317	1.736	538271	2.82	100	98.3	90	110	
Tl	205	1	No Gas	101.272	0.883	3490457	2.66	100	101.3	90	110	
Tl	203	1	No Gas	101.011	0.677	1542721	3.24	100	101.0	90	110	
Pb	208	1	No Gas	96.934	1.230	4709394	3.02	100	96.9	90	110	
U	238	1	No Gas	98.989	0.214	4858348	3.50	100	99.0	90	110	
Ca	43	2	He	9936.213	3.679	17518	3.17	10000	99.4	90	110	
Sb	121	2	He	95.508	1.602	711633	1.72	100	95.5	90	110	
Ti	47	2	He	96.451	2.193	19144	1.83	100	96.5	90	110	
Cu	63	1	No Gas	101.045	0.923	1547824	3.35	100	101.0	90	110	
Se	82	1	No Gas	103.158	0.862	22101	3.68	100	103.2	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	788779	2.20	839053	94.01	70	120	
Ge	72	2	He	586446	0.50	589070	99.55	70	120	
Ge	72	1	No Gas	2365407	3.62	2387222	99.09	70	120	
In	115	1	No Gas	2736022	4.31	2718732	100.64	70	120	
Bi	209	1	No Gas	2456761	3.34	2414089	101.77	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	202_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T21:14:44-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	159CALB.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	0.208	92.9	44733	1.8	0.5	
Be	9	1	No Gas	0.008	50.2	30	44.1	0.5	
V	51	2	He	-0.237	-7.9	1016	10.8	2.5	
Cr	52	2	He	0.082	36.1	1163	18.2	2.5	
Fe	56	2	He	0.715	117.2	15534	34.8	100	
Se	78	2	He	-0.276	-68.9	111	14.0	2	
As	75	2	He	-0.028	-33.7	98	10.4	2.5	
Ca	44	2	He	-1.401	-202.2	423	20.1	100	
Na	23	2	He	-6.240	-26.3	101786	1.3	100	
Mg	24	2	He	1.286	97.7	1094	65.7	100	
K	39	2	He	-3.556	-58.1	51848	1.8	100	
Mn	55	2	He	0.023	97.3	590	17.2	2.5	
Co	59	2	He	0.012	60.8	173	50.4	2.5	
Ni	60	2	He	-0.473	-2.3	277	12.7	2.5	
Cu	63	2	He	-0.482	-2.7	940	11.8	2	
Zn	66	2	He	0.208	10.9	637	4.5	2.5	
Al	27	2	He	-1.991	-11.3	290	19.2	5	
B	11	1	No Gas	12.551	11.4	30047	7.0	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-1.887	-0.7	19187	1.5	5	
Si	28	1	No Gas	-9.118	-9.3	284436	1.3	10	
Ag	107	1	No Gas	-0.015	-30.0	390	22.4	2.5	
Cd	111	1	No Gas	0.002	211.3	20	100.0	1	
Sr	88	1	No Gas	-0.024	-7.1	1173	6.8	2.5	
Mo	95	1	No Gas	0.011	63.5	127	37.3	2.5	
Sn	118	1	No Gas	0.043	14.7	1213	4.8	5	
Sb	121	1	No Gas	0.039	32.3	1043	19.7	2.5	
Ba	137	1	No Gas	-0.018	-30.3	147	20.8	2.5	
Tl	205	1	No Gas	0.022	35.7	853	32.3	1	
Tl	203	1	No Gas	0.018	62.6	317	53.8	1	
Pb	208	1	No Gas	0.014	34.4	1740	12.8	2.5	
U	238	1	No Gas	0.003	19.4	160	18.8	2.5	
Ca	43	2	He	-3.611	-180.8	17	69.3	100	
Sb	121	2	He	0.038	11.5	460	7.5	2.5	
Ti	47	2	He	0.033	86.6	7	86.6	2.5	
Cu	63	1	No Gas	-0.460	-1.4	1730	5.5	2.5	
Se	82	1	No Gas	0.512	52.3	-230	-26.1	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	793309	3.55	839053	94.55	70	120	
Ge	72	2	He	587640	0.69	589070	99.76	70	120	
Ge	72	1	No Gas	2426693	0.98	2387222	101.65	70	120	
In	115	1	No Gas	2841573	1.51	2718732	104.52	70	120	
Bi	209	1	No Gas	2524570	0.91	2414089	104.58	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	209_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T21:28:03-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	159CALB.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	99.875	1.696	1186545	2.75	100	99.9	90	110	
Be	9	1	No Gas	96.271	1.372	305136	1.06	100	96.3	90	110	
V	51	2	He	100.408	0.462	594869	0.29	100	100.4	90	110	
Cr	52	2	He	96.798	0.604	709740	0.62	100	96.8	90	110	
Fe	56	2	He	10021.355	0.900	63531696	0.57	10000	100.2	90	110	
Se	78	2	He	98.066	0.167	7752	0.48	100	98.1	90	110	
As	75	2	He	99.896	0.320	106231	0.67	100	99.9	90	110	
Ca	44	2	He	9695.725	0.877	285687	0.84	10000	97.0	90	110	
Na	23	2	He	10026.572	1.852	10236469	2.07	10000	100.3	90	110	
Mg	24	2	He	9956.848	0.950	5589258	1.22	10000	99.6	90	110	
K	39	2	He	9817.279	0.803	5800764	0.45	10000	98.2	90	110	
Mn	55	2	He	98.741	0.216	432754	0.48	100	98.7	90	110	
Co	59	2	He	100.333	1.091	1225067	1.02	100	100.3	90	110	
Ni	60	2	He	100.422	0.199	306756	0.22	100	100.4	90	110	
Cu	63	2	He	96.286	0.779	840050	1.05	100	96.3	90	110	
Zn	66	2	He	100.247	2.054	144429	2.40	100	100.2	90	110	
Al	27	2	He	95.582	2.486	24869	2.68	100	95.6	90	110	
B	11	1	No Gas	489.098	2.143	948838	0.55	500	97.8	90	110	
Al	27	1	No Gas	96.781	0.501	1561877	1.43	100	96.8	90	110	
Si	28	1	No Gas	487.293	0.959	3750057	1.35	5000	9.7	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	100.984	0.569	1982954	0.81	100	101.0	90	110	
Cd	111	1	No Gas	97.800	0.723	378591	0.40	100	97.8	90	110	
Sr	88	1	No Gas	98.968	0.033	3450390	0.38	100	99.0	90	110	
Mo	95	1	No Gas	99.155	1.629	679225	1.36	100	99.2	90	110	
Sn	118	1	No Gas	94.130	2.393	1105346	2.05	100	94.1	90	110	
Sb	121	1	No Gas	102.737	1.439	1662384	0.16	100	102.7	90	110	
Ba	137	1	No Gas	98.771	1.316	533706	0.97	100	98.8	90	110	
Tl	205	1	No Gas	102.032	1.111	3445515	1.00	100	102.0	90	110	
Tl	203	1	No Gas	100.185	0.553	1499044	1.31	100	100.2	90	110	
Pb	208	1	No Gas	97.302	0.611	4631564	1.02	100	97.3	90	110	
U	238	1	No Gas	99.628	0.722	4789984	0.93	100	99.6	90	110	
Ca	43	2	He	9763.540	1.568	16931	1.30	10000	97.6	90	110	
Sb	121	2	He	96.082	0.894	704053	0.96	100	96.1	90	110	
Ti	47	2	He	97.079	2.774	18950	2.67	100	97.1	90	110	
Cu	63	1	No Gas	100.261	0.620	1523093	1.94	100	100.3	90	110	
Se	82	1	No Gas	100.343	1.983	21307	2.49	100	100.3	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	769485	2.43	839053	91.71	70	120	
Ge	72	2	He	576736	0.35	589070	97.91	70	120	
Ge	72	1	No Gas	2345388	1.43	2387222	98.25	70	120	
In	115	1	No Gas	2699175	0.37	2718732	99.28	70	120	
Bi	209	1	No Gas	2406764	0.92	2414089	99.70	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	210_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T21:29:51-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	159CALB.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	0.238	21.3	43462	1.1	0.5	
Be	9	1	No Gas	0.022	81.3	70	75.6	0.5	
V	51	2	He	-0.288	-3.7	677	9.6	2.5	
Cr	52	2	He	0.092	33.0	1187	18.9	2.5	
Fe	56	2	He	6.080	8.8	48110	7.4	100	
Se	78	2	He	-0.082	-287.0	121	13.9	2	
As	75	2	He	-0.038	-48.0	83	22.3	2.5	
Ca	44	2	He	0.719	92.3	467	4.5	100	
Na	23	2	He	12.644	5.7	116188	0.8	100	
Mg	24	2	He	2.454	11.3	1690	9.3	100	
K	39	2	He	-2.589	-66.9	50245	1.3	100	
Mn	55	2	He	0.106	10.9	920	5.8	2.5	
Co	59	2	He	0.012	9.4	177	8.6	2.5	
Ni	60	2	He	-0.473	-3.1	263	17.1	2.5	
Cu	63	2	He	-0.487	-0.9	857	4.1	2	
Zn	66	2	He	0.210	49.2	613	22.8	2.5	
Al	27	2	He	-1.795	-18.2	327	24.9	5	
B	11	1	No Gas	9.383	8.5	22939	9.1	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-1.857	-3.5	19023	5.0	5	
Si	28	1	No Gas	-7.665	-19.4	285248	3.3	10	
Ag	107	1	No Gas	-0.013	-48.3	420	29.0	2.5	
Cd	111	1	No Gas	0.009	198.3	47	155.0	1	
Sr	88	1	No Gas	0.056	221.1	4028	110.6	2.5	
Mo	95	1	No Gas	0.012	130.0	133	83.6	2.5	
Sn	118	1	No Gas	0.037	40.0	1107	16.3	5	
Sb	121	1	No Gas	0.031	16.6	877	9.1	2.5	
Ba	137	1	No Gas	0.079	159.4	677	102.9	2.5	
Tl	205	1	No Gas	0.027	29.7	980	26.6	1	
Tl	203	1	No Gas	0.022	34.9	380	29.9	1	
Pb	208	1	No Gas	0.016	94.9	1817	39.9	2.5	
U	238	1	No Gas	0.010	132.3	487	130.6	2.5	
Ca	43	2	He	2.724	126.7	27	21.7	100	
Sb	121	2	He	0.034	30.7	417	18.6	2.5	
Ti	47	2	He	0.017	173.2	3	173.2	2.5	
Cu	63	1	No Gas	-0.459	-3.4	1687	13.4	2.5	
Se	82	1	No Gas	-0.249	-300.0	-387	-41.9	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	764040	2.44	839053	91.06	70	120	
Ge	72	2	He	563204	0.78	589070	95.61	70	120	
Ge	72	1	No Gas	2346682	0.41	2387222	98.30	70	120	
In	115	1	No Gas	2761945	0.42	2718732	101.59	70	120	
Bi	209	1	No Gas	2446067	1.20	2414089	101.32	70	120	

Sample Report

Sample Table

Sample Name	HS22080933-01
Data File Name	213SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T21:35:28-05:00
Sample Type	Sample
Dilution	1
Comment	DOD TW 182759
ISTD Ref FileName	159CALB.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	171.617	171.617	2.58	2059773	0.01	2000	
Be	9	1	No Gas	0.007	0.007	42.15	25	0.03	2000	
V	51	2	He	-0.119	-0.119	-15.09	1733	-0.01	2000	
Cr	52	2	He	12.082	12.082	1.30	91384	0.01	2000	
Fe	56	2	He	7900.764	7900.764	0.59	51400514	0.02	200000	
Se	78	2	He	0.039	0.039	817.43	137	0.03	2000	
As	75	2	He	2.835	2.835	2.33	3218	0.09	2000	
Ca	44	2	He	121652.232	121652.232	0.41	3672904	3.31	200000	
Na	23	2	He	208245.363	208245.363	0.32	216000970	0.10	200000	>LDR
Mg	24	2	He	18327.497	18327.497	0.66	10556286	0.17	200000	
K	39	2	He	96298.799	96298.799	0.10	57911279	0.17	200000	
Mn	55	2	He	729.231	729.231	0.72	3276558	0.02	2000	
Co	59	2	He	3.086	3.086	2.08	38692	0.01	2000	
Ni	60	2	He	7.086	7.086	2.93	23841	0.03	2000	
Cu	63	2	He	0.287	0.287	7.66	7796	0.00	2000	
Zn	66	2	He	9.494	9.494	2.06	14341	0.07	2000	
Al	27	2	He	45.799	45.799	3.10	12646	0.36	2000	
B	11	1	No Gas	98.075	98.075	3.24	199149	0.05	2000	
Al	27	1	No Gas	42.253	42.253	2.34	734397	0.01	2000	
Si	28	1	No Gas	11561.664	11561.664	2.01	84193282	0.01	2000	>LDR
Ag	107	1	No Gas	-0.023	-0.023	-8.50	217	-0.01	2000	
Cd	111	1	No Gas	0.044	0.044	5.23	183	0.02	2000	
Sr	88	1	No Gas	1948.565	1948.565	1.23	69192471	0.00	2000	>LDR
Mo	95	1	No Gas	0.991	0.991	7.87	6965	0.01	2000	
Sn	118	1	No Gas	0.217	0.217	2.94	3260	0.01	2000	
Sb	121	1	No Gas	0.439	0.439	6.66	7752	0.01	2000	
Ba	137	1	No Gas	593.546	593.546	0.66	3267641	0.02	2000	
Tl	205	1	No Gas	0.001	0.001	157.55	83	0.00	2000	
Tl	203	1	No Gas	0.000	0.000	-73.18	33	0.00	2000	
Pb	208	1	No Gas	0.308	0.308	0.90	15938	0.00	2000	
U	238	1	No Gas	0.057	0.057	11.33	2770	0.00	2000	
Ca	43	2	He	114373.868	114373.868	0.68	203287	56.26	200000	
Sb	121	2	He	0.413	0.413	0.93	3287	0.01	2000	
Ti	47	2	He	0.250	0.250	40.95	50	0.50	2000	
Cu	63	1	No Gas	1.175	1.175	1.85	27311	0.00	2000	
Zn	66	1	No Gas	9.324	9.324	0.85	39952	0.02	2000	
Se	82	1	No Gas	1.935	1.935	55.14	87	2.22	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	789014	2.11	839053	94.04	70	120	
Ge	72	2	He	591822	1.03	589070	100.47	70	120	
Ge	72	1	No Gas	2429695	0.63	2387222	101.78	70	120	
In	115	1	No Gas	2750963	1.42	2718732	101.19	70	120	
Bi	209	1	No Gas	2448051	0.91	2414089	101.41	70	120	

Sample Report

Sample Table

Sample Name	HS22080933-04
Data File Name	214SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T21:37:20-05:00
Sample Type	Sample
Dilution	1
Comment	DOD TW 182759
ISTD Ref FileName	159CALB.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	162.010	162.010	3.75	1935958	0.01	2000	
Be	9	1	No Gas	0.994	0.994	4.67	3214	0.03	2000	
V	51	2	He	0.022	0.022	26.36	2582	0.00	2000	
Cr	52	2	He	98.735	98.735	0.35	741246	0.01	2000	
Fe	56	2	He	116723.641	116723.641	0.55	757576602	0.02	200000	
Se	78	2	He	0.045	0.045	92.74	137	0.03	2000	
As	75	2	He	5.203	5.203	2.29	5786	0.09	2000	
Ca	44	2	He	112022.091	112022.091	1.13	3374943	3.32	200000	
Na	23	2	He	376215.633	376215.633	0.13	389295354	0.10	200000	>LDR
Mg	24	2	He	57170.561	57170.561	0.26	32857716	0.17	200000	
K	39	2	He	10735.298	10735.298	0.74	6490047	0.17	200000	
Mn	55	2	He	4488.269	4488.269	0.81	20119526	0.02	2000	>LDR
Co	59	2	He	41.152	41.152	0.49	514519	0.01	2000	
Ni	60	2	He	175.868	175.868	1.05	548771	0.03	2000	
Cu	63	2	He	2.539	2.539	3.18	27775	0.01	2000	
Zn	66	2	He	1361.542	1361.542	1.07	2004191	0.07	2000	
Al	27	2	He	59.395	59.395	3.30	16130	0.37	2000	
B	11	1	No Gas	38.893	38.893	2.66	81607	0.05	2000	
Al	27	1	No Gas	58.985	58.985	0.34	991082	0.01	2000	
Si	28	1	No Gas	17530.018	17530.018	1.22	125639038	0.01	2000	>LDR
Ag	107	1	No Gas	-0.014	-0.014	-15.88	370	0.00	2000	
Cd	111	1	No Gas	1.243	1.243	3.78	4794	0.03	2000	
Sr	88	1	No Gas	2532.171	2532.171	1.48	87713975	0.00	2000	>LDR
Mo	95	1	No Gas	0.499	0.499	4.45	3444	0.01	2000	
Sn	118	1	No Gas	0.127	0.127	6.01	2127	0.01	2000	
Sb	121	1	No Gas	0.352	0.352	1.87	6205	0.01	2000	
Ba	137	1	No Gas	272.187	272.187	2.80	1461566	0.02	2000	
Tl	205	1	No Gas	0.007	0.007	24.51	280	0.00	2000	
Tl	203	1	No Gas	0.006	0.006	49.75	130	0.00	2000	
Pb	208	1	No Gas	0.097	0.097	3.06	5434	0.00	2000	
U	238	1	No Gas	0.021	0.021	12.09	960	0.00	2000	
Ca	43	2	He	106520.471	106520.471	0.90	188906	56.39	200000	
Sb	121	2	He	0.299	0.299	3.05	2424	0.01	2000	
Ti	47	2	He	0.351	0.351	57.88	70	0.50	2000	
Cu	63	1	No Gas	4.188	4.188	2.77	73377	0.01	2000	
Zn	66	1	No Gas	1305.335	1305.335	1.07	5379520	0.02	2000	
Se	82	1	No Gas	0.998	0.998	145.00	-121	-0.83	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	784692	1.82	839053	93.52	70	120	
Ge	72	2	He	590530	0.88	589070	100.25	70	120	
Ge	72	1	No Gas	2394697	0.99	2387222	100.31	70	120	
In	115	1	No Gas	2683601	1.24	2718732	98.71	70	120	
Bi	209	1	No Gas	2315791	0.32	2414089	95.93	70	120	

Sample Report

Sample Table

Sample Name	HS22080933-06
Data File Name	215SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T21:39:14-05:00
Sample Type	Sample
Dilution	1
Comment	DOD TW 182759
ISTD Ref FileName	159CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	5.839	5.839	1.55	116837	0.00	2000	
Be	9	1	No Gas	0.127	0.127	7.02	440	0.03	2000	
V	51	2	He	0.587	0.587	6.83	6157	0.01	2000	
Cr	52	2	He	0.907	0.907	1.13	7556	0.01	2000	
Fe	56	2	He	35178.335	35178.335	0.51	234472563	0.02	200000	
Se	78	2	He	-0.066	-0.066	-281.37	131	-0.05	2000	
As	75	2	He	3.535	3.535	2.67	4080	0.09	2000	
Ca	44	2	He	16101.824	16101.824	1.10	498547	3.23	200000	
Na	23	2	He	37099.438	37099.438	0.90	39523353	0.09	200000	
Mg	24	2	He	9728.366	9728.366	0.55	5741936	0.17	200000	
K	39	2	He	1133.997	1133.997	0.41	753816	0.15	200000	
Mn	55	2	He	2270.992	2270.992	1.16	10454566	0.02	2000	>LDR
Co	59	2	He	1.063	1.063	1.07	13674	0.01	2000	
Ni	60	2	He	0.760	0.760	2.90	4224	0.02	2000	
Cu	63	2	He	0.418	0.418	3.82	9180	0.00	2000	
Zn	66	2	He	6.648	6.648	0.80	10391	0.06	2000	
Al	27	2	He	82.285	82.285	3.87	22625	0.36	2000	
B	11	1	No Gas	19.137	19.137	0.28	45328	0.04	2000	
Al	27	1	No Gas	81.850	81.850	1.40	1405605	0.01	2000	
Si	28	1	No Gas	19874.927	19874.927	0.74	147591681	0.01	2000	>LDR
Ag	107	1	No Gas	-0.021	-0.021	-3.29	263	-0.01	2000	
Cd	111	1	No Gas	0.028	0.028	41.21	123	0.02	2000	
Sr	88	1	No Gas	305.246	305.246	0.30	11194796	0.00	2000	
Mo	95	1	No Gas	0.187	0.187	5.83	1397	0.01	2000	
Sn	118	1	No Gas	0.192	0.192	1.99	3057	0.01	2000	
Sb	121	1	No Gas	0.203	0.203	2.19	3871	0.01	2000	
Ba	137	1	No Gas	399.528	399.528	2.44	2271050	0.02	2000	
Tl	205	1	No Gas	0.000	0.000	129.58	83	0.00	2000	
Tl	203	1	No Gas	0.000	0.000	1682.80	43	0.00	2000	
Pb	208	1	No Gas	0.149	0.149	2.20	8471	0.00	2000	
U	238	1	No Gas	0.064	0.064	3.56	3217	0.00	2000	
Ca	43	2	He	16359.743	16359.743	3.78	29813	54.88	200000	
Sb	121	2	He	0.196	0.196	1.66	1697	0.01	2000	
Ti	47	2	He	0.909	0.909	27.28	187	0.49	2000	
Cu	63	1	No Gas	0.667	0.667	5.24	19771	0.00	2000	
Zn	66	1	No Gas	6.431	6.431	1.34	28450	0.02	2000	
Se	82	1	No Gas	1.333	1.333	101.91	-48	-2.75	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	832312	0.98	839053	99.20	70	120	
Ge	72	2	He	606421	0.40	589070	102.95	70	120	
Ge	72	1	No Gas	2481907	1.26	2387222	103.97	70	120	
In	115	1	No Gas	2840467	0.47	2718732	104.48	70	120	

Sample Report

Bi	209	1	No Gas	2520959	1.37	2414089	104.43	70	120	

Sample Report

Sample Table

Sample Name	HS22080933-08
Data File Name	216SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T21:41:10-05:00
Sample Type	Sample
Dilution	1
Comment	DOD TW 182759
ISTD Ref FileName	159CALB.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	29.209	29.209	1.74	374362	0.01	2000	
Be	9	1	No Gas	0.057	0.057	22.69	182	0.03	2000	
V	51	2	He	-0.177	-0.177	-12.61	1367	-0.01	2000	
Cr	52	2	He	0.587	0.587	3.71	4908	0.01	2000	
Fe	56	2	He	60591.022	60591.022	1.70	389448194	0.02	200000	
Se	78	2	He	-0.142	-0.142	-201.41	121	-0.12	2000	
As	75	2	He	1.059	1.059	3.55	1268	0.08	2000	
Ca	44	2	He	19092.770	19092.770	0.46	570035	3.35	200000	
Na	23	2	He	196094.472	196094.472	0.82	200997517	0.10	200000	>LDR
Mg	24	2	He	10689.898	10689.898	1.84	6084204	0.18	200000	
K	39	2	He	3696.967	3696.967	2.37	2248495	0.16	200000	
Mn	55	2	He	917.438	917.438	1.15	4073018	0.02	2000	
Co	59	2	He	1.628	1.628	2.25	20192	0.01	2000	
Ni	60	2	He	1.179	1.179	13.12	5361	0.02	2000	
Cu	63	2	He	0.195	0.195	24.66	6889	0.00	2000	
Zn	66	2	He	8.714	8.714	4.28	13033	0.07	2000	
Al	27	2	He	36.392	36.392	12.84	10090	0.36	2000	
B	11	1	No Gas	50.712	50.712	0.87	102406	0.05	2000	
Al	27	1	No Gas	28.619	28.619	6.95	498079	0.01	2000	
Si	28	1	No Gas	16213.488	16213.488	1.26	114372872	0.01	2000	>LDR
Ag	107	1	No Gas	-0.017	-0.017	-14.21	330	-0.01	2000	
Cd	111	1	No Gas	0.067	0.067	33.29	270	0.02	2000	
Sr	88	1	No Gas	396.076	396.076	1.24	13763684	0.00	2000	
Mo	95	1	No Gas	0.136	0.136	15.15	973	0.01	2000	
Sn	118	1	No Gas	0.135	0.135	3.02	2230	0.01	2000	
Sb	121	1	No Gas	0.158	0.158	6.65	2944	0.01	2000	
Ba	137	1	No Gas	1001.556	1001.556	1.53	5394140	0.02	2000	
Tl	205	1	No Gas	0.002	0.002	22.17	133	0.00	2000	
Tl	203	1	No Gas	0.001	0.001	389.19	47	0.00	2000	
Pb	208	1	No Gas	0.347	0.347	3.27	16985	0.00	2000	
U	238	1	No Gas	0.022	0.022	18.06	1043	0.00	2000	
Ca	43	2	He	19593.501	19593.501	1.41	34433	56.90	200000	
Sb	121	2	He	0.150	0.150	11.59	1290	0.01	2000	
Ti	47	2	He	2.153	2.153	54.35	427	0.50	2000	
Cu	63	1	No Gas	1.155	1.155	3.60	26182	0.00	2000	
Zn	66	1	No Gas	8.479	8.479	0.36	35316	0.02	2000	
Se	82	1	No Gas	1.182	1.182	31.08	-79	-1.50	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	766146	1.93	839053	91.31	70	120	
Ge	72	2	He	584827	0.89	589070	99.28	70	120	
Ge	72	1	No Gas	2356197	0.36	2387222	98.70	70	120	
In	115	1	No Gas	2691739	1.54	2718732	99.01	70	120	
Bi	209	1	No Gas	2331238	1.06	2414089	96.57	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	219_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T21:46:49-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	159CALB.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	100.251	1.802	1166486	1.27	100	100.3	90	110	
Be	9	1	No Gas	97.713	0.972	303433	0.66	100	97.7	90	110	
V	51	2	He	99.800	1.628	588775	0.90	100	99.8	90	110	
Cr	52	2	He	96.520	1.173	704719	0.46	100	96.5	90	110	
Fe	56	2	He	9951.447	1.619	62821826	0.80	10000	99.5	90	110	
Se	78	2	He	96.753	1.202	7618	1.12	100	96.8	90	110	
As	75	2	He	99.378	1.295	105233	0.53	100	99.4	90	110	
Ca	44	2	He	9681.416	0.737	284071	0.33	10000	96.8	90	110	
Na	23	2	He	9821.776	0.560	9987876	1.39	10000	98.2	90	110	
Mg	24	2	He	9918.308	2.997	5543458	2.17	10000	99.2	90	110	
K	39	2	He	9734.741	1.265	5728289	0.73	10000	97.3	90	110	
Mn	55	2	He	98.455	0.836	429689	0.17	100	98.5	90	110	
Co	59	2	He	100.997	2.016	1227944	1.40	100	101.0	90	110	
Ni	60	2	He	100.288	1.394	305055	0.58	100	100.3	90	110	
Cu	63	2	He	96.255	0.820	836245	0.33	100	96.3	90	110	
Zn	66	2	He	101.139	0.712	145092	0.13	100	101.1	90	110	
Al	27	2	He	94.898	2.015	24595	2.73	100	94.9	90	110	
B	11	1	No Gas	485.612	1.718	923250	2.47	500	97.1	90	110	
Al	27	1	No Gas	98.260	2.764	1563419	1.68	100	98.3	90	110	
Si	28	1	No Gas	492.206	2.651	3733083	1.51	5000	9.8	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	100.998	1.290	1951227	0.59	100	101.0	90	110	
Cd	111	1	No Gas	98.075	0.820	373556	0.91	100	98.1	90	110	
Sr	88	1	No Gas	99.806	2.745	3422891	1.02	100	99.8	90	110	
Mo	95	1	No Gas	100.098	1.466	674639	0.56	100	100.1	90	110	
Sn	118	1	No Gas	93.250	1.022	1077455	0.76	100	93.3	90	110	
Sb	121	1	No Gas	101.947	1.615	1627491	1.14	100	101.9	90	110	
Ba	137	1	No Gas	99.397	1.190	528451	0.89	100	99.4	90	110	
Tl	205	1	No Gas	104.073	1.471	3411288	0.79	100	104.1	90	110	
Tl	203	1	No Gas	101.943	1.472	1480469	0.11	100	101.9	90	110	
Pb	208	1	No Gas	98.475	1.256	4549706	0.43	100	98.5	90	110	
U	238	1	No Gas	100.144	2.182	4673322	1.72	100	100.1	90	110	
Ca	43	2	He	9604.237	3.053	16587	3.39	10000	96.0	90	110	
Sb	121	2	He	95.412	1.583	696173	0.77	100	95.4	90	110	
Ti	47	2	He	97.953	1.247	19040	0.57	100	98.0	90	110	
Cu	63	1	No Gas	101.003	0.510	1513552	0.65	100	101.0	90	110	
Se	82	1	No Gas	98.395	2.359	20603	1.49	100	98.4	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	753774	1.05	839053	89.84	70	120	
Ge	72	2	He	574337	0.84	589070	97.50	70	120	
Ge	72	1	No Gas	2313852	1.13	2387222	96.93	70	120	
In	115	1	No Gas	2656021	1.71	2718732	97.69	70	120	
Bi	209	1	No Gas	2336314	1.42	2414089	96.78	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	220_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T21:48:36-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	159CALB.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	0.220	9.2	44323	2.1	0.5	
Be	9	1	No Gas	0.008	94.4	28	83.4	0.5	
V	51	2	He	-0.298	-2.7	642	6.4	2.5	
Cr	52	2	He	0.054	33.3	950	14.9	2.5	
Fe	56	2	He	0.153	25.2	11812	2.3	100	
Se	78	2	He	0.210	108.5	148	12.9	2	
As	75	2	He	-0.011	-148.8	114	16.6	2.5	
Ca	44	2	He	-3.068	-120.5	370	29.2	100	
Na	23	2	He	6.388	19.7	113852	1.8	100	
Mg	24	2	He	0.175	82.3	457	18.6	100	
K	39	2	He	-1.011	-64.9	52931	1.1	100	
Mn	55	2	He	0.000	-4142.5	480	12.7	2.5	
Co	59	2	He	0.006	45.9	107	32.9	2.5	
Ni	60	2	He	-0.476	-1.7	263	8.8	2.5	
Cu	63	2	He	-0.491	-0.4	857	1.3	2	
Zn	66	2	He	0.149	35.6	547	14.0	2.5	
Al	27	2	He	-1.852	-3.8	323	6.4	5	
B	11	1	No Gas	7.271	13.2	19320	9.1	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-1.850	-2.1	18953	3.5	5	
Si	28	1	No Gas	-6.573	-1.7	290162	0.7	10	
Ag	107	1	No Gas	-0.016	-25.2	360	21.7	2.5	
Cd	111	1	No Gas	0.000	-3607.9	10	100.0	1	
Sr	88	1	No Gas	-0.027	-15.4	1057	13.3	2.5	
Mo	95	1	No Gas	0.004	194.1	73	67.3	2.5	
Sn	118	1	No Gas	0.038	18.8	1130	8.4	5	
Sb	121	1	No Gas	0.141	16.8	2630	14.6	2.5	
Ba	137	1	No Gas	-0.015	-61.6	157	32.1	2.5	
Tl	205	1	No Gas	0.025	47.6	920	43.8	1	
Tl	203	1	No Gas	0.024	61.2	407	54.5	1	
Pb	208	1	No Gas	0.004	34.5	1227	5.5	2.5	
U	238	1	No Gas	0.003	22.8	173	23.3	2.5	
Ca	43	2	He	-7.386	-132.9	10	173.2	100	
Sb	121	2	He	0.132	13.8	1153	11.5	2.5	
Ti	47	2	He	0.017	173.2	3	173.2	2.5	
Cu	63	1	No Gas	-0.445	-3.4	1874	12.5	2.5	
Se	82	1	No Gas	0.796	80.3	-160	-85.0	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	782739	1.69	839053	93.29	70	120	
Ge	72	2	He	582806	0.94	589070	98.94	70	120	
Ge	72	1	No Gas	2324563	0.47	2387222	97.38	70	120	
In	115	1	No Gas	2778088	0.94	2718732	102.18	70	120	
Bi	209	1	No Gas	2442779	0.91	2414089	101.19	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	256_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T23:13:05-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	159CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	101.649	2.319	1149107	1.24	100	101.6	90	110	
Be	9	1	No Gas	99.536	1.405	300452	0.49	100	99.5	90	110	
V	51	2	He	99.826	0.922	617278	1.05	100	99.8	90	110	
Cr	52	2	He	96.607	0.574	739280	0.60	100	96.6	90	110	
Fe	56	2	He	9977.458	1.301	66016559	1.15	10000	99.8	90	110	
Se	78	2	He	97.239	1.011	8023	1.09	100	97.2	90	110	
As	75	2	He	99.207	0.473	110105	0.12	100	99.2	90	110	
Ca	44	2	He	9788.883	1.473	301029	1.54	10000	97.9	90	110	
Na	23	2	He	9883.454	1.008	10532094	0.50	10000	98.8	90	110	
Mg	24	2	He	9808.681	1.151	5746508	1.21	10000	98.1	90	110	
K	39	2	He	9902.702	1.148	6106339	0.94	10000	99.0	90	110	
Mn	55	2	He	98.834	0.968	452087	1.14	100	98.8	90	110	
Co	59	2	He	100.256	1.192	1277623	1.33	100	100.3	90	110	
Ni	60	2	He	100.116	0.260	319185	0.35	100	100.1	90	110	
Cu	63	2	He	95.305	0.466	867848	0.31	100	95.3	90	110	
Zn	66	2	He	100.435	0.288	151013	0.38	100	100.4	90	110	
Al	27	2	He	99.170	2.435	26896	1.94	100	99.2	90	110	
B	11	1	No Gas	507.307	1.191	937227	0.72	500	101.5	90	110	
Al	27	1	No Gas	98.589	2.473	1600433	1.06	100	98.6	90	110	
Si	28	1	No Gas	480.323	0.852	3725797	0.68	5000	9.6	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	101.337	0.600	1990595	0.50	100	101.3	90	110	
Cd	111	1	No Gas	97.668	0.813	378218	0.11	100	97.7	90	110	
Sr	88	1	No Gas	100.379	1.570	3500672	1.03	100	100.4	90	110	
Mo	95	1	No Gas	99.278	0.739	680331	0.24	100	99.3	90	110	
Sn	118	1	No Gas	93.143	1.982	1094209	1.86	100	93.1	90	110	
Sb	121	1	No Gas	101.572	3.239	1654229	1.94	100	101.6	90	110	
Ba	137	1	No Gas	98.045	1.295	529986	1.14	100	98.0	90	110	
Tl	205	1	No Gas	100.079	1.137	3391419	0.83	100	100.1	90	110	
Tl	203	1	No Gas	99.590	1.322	1495282	1.04	100	99.6	90	110	
Pb	208	1	No Gas	96.466	0.642	4607810	0.24	100	96.5	90	110	
U	238	1	No Gas	99.470	2.081	4798938	1.74	100	99.5	90	110	
Ca	43	2	He	9730.364	4.113	17612	4.29	10000	97.3	90	110	
Sb	121	2	He	93.174	1.061	712558	0.77	100	93.2	90	110	
Ti	47	2	He	100.249	3.389	20426	3.72	100	100.2	90	110	
Cu	63	1	No Gas	100.378	0.818	1535055	2.12	100	100.4	90	110	
Se	82	1	No Gas	98.656	5.178	21086	5.83	100	98.7	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	732775	1.76	839053	87.33	70	120	
Ge	72	2	He	601930	0.50	589070	102.18	70	120	
Ge	72	1	No Gas	2361013	1.34	2387222	98.90	70	120	
In	115	1	No Gas	2700222	0.78	2718732	99.32	70	120	
Bi	209	1	No Gas	2415174	0.41	2414089	100.04	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	257_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T23:14:52-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	159CALB.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	0.057	213.5	41934	1.5	0.5	
Be	9	1	No Gas	0.003	25.8	13	21.7	0.5	
V	51	2	He	-0.309	-2.6	589	9.0	2.5	
Cr	52	2	He	0.020	23.2	710	4.2	2.5	
Fe	56	2	He	-0.154	-12.7	10067	1.9	100	
Se	78	2	He	-0.187	-64.2	119	8.3	2	
As	75	2	He	-0.053	-23.9	71	18.9	2.5	
Ca	44	2	He	5.534	32.2	640	7.8	100	
Na	23	2	He	-10.838	-6.1	98446	0.1	100	
Mg	24	2	He	-0.003	-449.3	363	1.6	100	
K	39	2	He	2.622	50.3	56332	1.1	100	
Mn	55	2	He	0.007	38.0	523	2.9	2.5	
Co	59	2	He	0.001	177.1	47	61.9	2.5	
Ni	60	2	He	-0.513	-2.4	153	24.7	2.5	
Cu	63	2	He	-0.259	-10.7	2954	8.1	2	
Zn	66	2	He	0.024	204.1	373	20.1	2.5	
Al	27	2	He	0.425	56.8	923	6.2	5	
B	11	1	No Gas	5.978	14.0	16610	10.6	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.412	11.3	56037	0.8	5	
Si	28	1	No Gas	-10.766	-3.3	270840	2.0	10	
Ag	107	1	No Gas	-0.018	-9.8	307	11.5	2.5	
Cd	111	1	No Gas	0.001	202.6	13	43.3	1	
Sr	88	1	No Gas	0.011	42.2	2457	5.3	2.5	
Mo	95	1	No Gas	0.009	42.3	113	22.2	2.5	
Sn	118	1	No Gas	0.049	11.3	1287	4.7	5	
Sb	121	1	No Gas	0.064	17.5	1460	14.2	2.5	
Ba	137	1	No Gas	0.002	75.5	257	2.2	2.5	
Tl	205	1	No Gas	0.020	41.7	753	37.7	1	
Tl	203	1	No Gas	0.018	36.7	323	31.6	1	
Pb	208	1	No Gas	0.005	27.4	1307	5.8	2.5	
U	238	1	No Gas	0.003	8.1	140	7.1	2.5	
Ca	43	2	He	-3.766	-169.1	17	69.3	100	
Sb	121	2	He	0.046	12.3	533	7.8	2.5	
Ti	47	2	He	0.050	173.2	10	173.2	2.5	
Cu	63	1	No Gas	-0.222	-8.5	5408	4.4	2.5	
Se	82	1	No Gas	0.620	282.8	-205	-188.1	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	774106	2.32	839053	92.26	70	120	
Ge	72	2	He	596058	0.67	589070	101.19	70	120	
Ge	72	1	No Gas	2411431	1.31	2387222	101.01	70	120	
In	115	1	No Gas	2829173	1.84	2718732	104.06	70	120	
Bi	209	1	No Gas	2505870	0.91	2414089	103.80	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	260_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T23:20:25-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	159CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	101.291	3.466	1173590	0.56	100	101.3	90	110	
Be	9	1	No Gas	99.191	2.290	306897	1.41	100	99.2	90	110	
V	51	2	He	99.641	0.820	617673	0.47	100	99.6	90	110	
Cr	52	2	He	96.126	0.896	737447	0.62	100	96.1	90	110	
Fe	56	2	He	9888.533	0.323	65594657	0.62	10000	98.9	90	110	
Se	78	2	He	97.577	0.844	8071	1.44	100	97.6	90	110	
As	75	2	He	98.709	0.958	109829	0.82	100	98.7	90	110	
Ca	44	2	He	9769.640	0.930	301212	1.64	10000	97.7	90	110	
Na	23	2	He	9888.434	0.339	10564281	0.66	10000	98.9	90	110	
Mg	24	2	He	9789.785	1.209	5749753	0.92	10000	97.9	90	110	
K	39	2	He	9789.280	1.602	6052099	1.16	10000	97.9	90	110	
Mn	55	2	He	98.426	0.515	451356	0.76	100	98.4	90	110	
Co	59	2	He	100.465	0.438	1283536	1.12	100	100.5	90	110	
Ni	60	2	He	99.846	0.835	319128	0.50	100	99.8	90	110	
Cu	63	2	He	95.284	0.892	869829	0.40	100	95.3	90	110	
Zn	66	2	He	99.209	0.216	149553	1.01	100	99.2	90	110	
Al	27	2	He	97.783	1.008	26599	0.27	100	97.8	90	110	
B	11	1	No Gas	501.180	4.104	948719	1.39	500	100.2	90	110	
Al	27	1	No Gas	98.002	1.198	1604549	1.18	100	98.0	90	110	
Si	28	1	No Gas	478.369	1.234	3742685	1.22	5000	9.6	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	100.773	1.456	2008550	1.88	100	100.8	90	110	
Cd	111	1	No Gas	98.668	1.445	387667	0.78	100	98.7	90	110	
Sr	88	1	No Gas	99.502	1.361	3520770	0.36	100	99.5	90	110	
Mo	95	1	No Gas	99.370	1.323	690889	0.43	100	99.4	90	110	
Sn	118	1	No Gas	94.799	3.209	1129775	2.34	100	94.8	90	110	
Sb	121	1	No Gas	101.325	1.789	1664235	2.01	100	101.3	90	110	
Ba	137	1	No Gas	99.303	1.202	544619	0.43	100	99.3	90	110	
Tl	205	1	No Gas	102.639	0.623	3446383	1.09	100	102.6	90	110	
Tl	203	1	No Gas	101.165	1.602	1504953	1.11	100	101.2	90	110	
Pb	208	1	No Gas	98.646	0.617	4668666	0.48	100	98.6	90	110	
U	238	1	No Gas	100.807	0.463	4819062	0.87	100	100.8	90	110	
Ca	43	2	He	9644.845	3.830	17501	4.12	10000	96.4	90	110	
Sb	121	2	He	93.683	0.379	718271	0.52	100	93.7	90	110	
Ti	47	2	He	97.388	2.165	19891	2.30	100	97.4	90	110	
Cu	63	1	No Gas	102.017	0.388	1572647	0.55	100	102.0	90	110	
Se	82	1	No Gas	103.471	1.665	22308	0.77	100	103.5	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	751262	2.87	839053	89.54	70	120	
Ge	72	2	He	603458	0.89	589070	102.44	70	120	
Ge	72	1	No Gas	2380405	0.93	2387222	99.71	70	120	
In	115	1	No Gas	2739734	1.00	2718732	100.77	70	120	
Bi	209	1	No Gas	2393013	0.59	2414089	99.13	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	261_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T23:22:12-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	159CALB.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	-0.009	-622.0	41545	0.3	0.5	
Be	9	1	No Gas	0.008	20.1	30	16.7	0.5	
V	51	2	He	-0.304	-2.0	619	6.1	2.5	
Cr	52	2	He	0.025	36.1	750	9.2	2.5	
Fe	56	2	He	-0.083	-39.8	10528	2.2	100	
Se	78	2	He	-0.410	-34.3	101	11.2	2	
As	75	2	He	-0.061	-11.6	62	12.4	2.5	
Ca	44	2	He	1.598	200.5	520	18.5	100	
Na	23	2	He	-13.227	-5.5	95868	0.8	100	
Mg	24	2	He	0.038	27.9	387	1.5	100	
K	39	2	He	-0.675	-226.8	54290	1.7	100	
Mn	55	2	He	0.026	78.0	610	15.0	2.5	
Co	59	2	He	0.002	50.4	53	21.7	2.5	
Ni	60	2	He	-0.511	-2.2	160	22.5	2.5	
Cu	63	2	He	-0.325	-6.3	2357	8.0	2	
Zn	66	2	He	0.011	312.1	353	14.2	2.5	
Al	27	2	He	0.684	38.4	990	7.0	5	
B	11	1	No Gas	8.784	11.4	22258	10.1	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	0.422	15.1	56374	0.7	5	
Si	28	1	No Gas	-11.478	-6.8	266504	0.2	10	
Ag	107	1	No Gas	-0.023	-6.6	213	13.5	2.5	
Cd	111	1	No Gas	0.000	-4127.0	10	100.0	1	
Sr	88	1	No Gas	0.013	21.1	2507	2.6	2.5	
Mo	95	1	No Gas	0.007	49.1	100	26.5	2.5	
Sn	118	1	No Gas	0.052	13.0	1310	7.6	5	
Sb	121	1	No Gas	0.058	17.1	1360	10.4	2.5	
Ba	137	1	No Gas	0.005	256.9	273	27.7	2.5	
Tl	205	1	No Gas	0.026	23.4	967	20.9	1	
Tl	203	1	No Gas	0.025	16.7	420	14.5	1	
Pb	208	1	No Gas	0.017	7.4	1870	2.4	2.5	
U	238	1	No Gas	0.004	51.7	180	50.0	2.5	
Ca	43	2	He	-1.866	-0.9	20	0.0	100	
Sb	121	2	He	0.055	28.9	600	20.3	2.5	
Ti	47	2	He	0.116	89.2	23	89.2	2.5	
Cu	63	1	No Gas	-0.287	-4.7	4414	2.8	2.5	
Se	82	1	No Gas	0.181	525.1	-306	-70.3	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	780755	1.54	839053	93.05	70	120	
Ge	72	2	He	595518	0.15	589070	101.09	70	120	
Ge	72	1	No Gas	2419405	1.94	2387222	101.35	70	120	
In	115	1	No Gas	2810553	1.39	2718732	103.38	70	120	
Bi	209	1	No Gas	2465032	0.86	2414089	102.11	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	267_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T23:33:15-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	159CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	101.350	1.913	1070689	1.17	100	101.4	90	110	
Be	9	1	No Gas	100.876	1.082	284520	0.45	100	100.9	90	110	
V	51	2	He	98.978	0.190	632650	0.22	100	99.0	90	110	
Cr	52	2	He	94.765	0.790	749598	0.62	100	94.8	90	110	
Fe	56	2	He	9899.159	1.078	67704019	1.06	10000	99.0	90	110	
Se	78	2	He	96.074	1.959	8195	1.73	100	96.1	90	110	
As	75	2	He	98.773	0.242	113315	0.12	100	98.8	90	110	
Ca	44	2	He	9574.934	0.781	304373	0.98	10000	95.7	90	110	
Na	23	2	He	9684.947	1.204	10670677	1.37	10000	96.8	90	110	
Mg	24	2	He	9610.447	0.827	5819918	0.97	10000	96.1	90	110	
K	39	2	He	9784.547	0.954	6237387	1.07	10000	97.8	90	110	
Mn	55	2	He	97.116	0.607	459185	0.80	100	97.1	90	110	
Co	59	2	He	100.462	0.836	1323332	1.03	100	100.5	90	110	
Ni	60	2	He	98.869	0.213	325843	0.41	100	98.9	90	110	
Cu	63	2	He	95.516	0.592	899033	0.38	100	95.5	90	110	
Zn	66	2	He	99.346	0.217	154407	0.15	100	99.3	90	110	
Al	27	2	He	106.497	2.877	29796	2.95	100	106.5	90	110	
B	11	1	No Gas	510.373	2.971	880928	2.45	500	102.1	90	110	
Al	27	1	No Gas	102.506	0.889	1735909	1.72	100	102.5	90	110	
Si	28	1	No Gas	463.067	0.682	3763438	0.66	5000	9.3	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	99.894	1.134	2082370	0.17	100	99.9	90	110	
Cd	111	1	No Gas	97.200	1.658	399466	1.55	100	97.2	90	110	
Sr	88	1	No Gas	99.534	1.481	3683742	0.23	100	99.5	90	110	
Mo	95	1	No Gas	97.971	1.581	712467	0.79	100	98.0	90	110	
Sn	118	1	No Gas	99.365	0.342	1238819	1.01	100	99.4	90	110	
Sb	121	1	No Gas	101.374	3.127	1724221	2.79	100	101.4	90	110	
Ba	137	1	No Gas	98.374	1.267	564326	0.54	100	98.4	90	110	
Tl	205	1	No Gas	100.090	0.345	3541083	1.01	100	100.1	90	110	
Tl	203	1	No Gas	100.485	1.417	1575012	0.77	100	100.5	90	110	
Pb	208	1	No Gas	96.815	0.483	4827815	0.44	100	96.8	90	110	
U	238	1	No Gas	98.614	0.437	4967169	1.11	100	98.6	90	110	
Ca	43	2	He	9713.438	2.312	18172	2.49	10000	97.1	90	110	
Sb	121	2	He	91.963	0.592	726994	0.79	100	92.0	90	110	
Ti	47	2	He	97.515	1.728	20536	1.79	100	97.5	90	110	
Cu	63	1	No Gas	101.931	1.102	1627250	0.14	100	101.9	90	110	
Se	82	1	No Gas	101.271	1.168	22605	0.69	100	101.3	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	684623	0.69	839053	81.59	70	120	
Ge	72	2	He	622186	0.21	589070	105.62	70	120	
Ge	72	1	No Gas	2465252	1.04	2387222	103.27	70	120	
In	115	1	No Gas	2865725	1.25	2718732	105.41	70	120	
Bi	209	1	No Gas	2521386	0.67	2414089	104.44	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	268_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T23:35:02-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	159CALB.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	0.453	27.4	38576	1.4	0.5	
Be	9	1	No Gas	0.042	86.1	113	82.0	0.5	
V	51	2	He	-0.195	-5.2	1336	5.3	2.5	
Cr	52	2	He	0.047	34.5	950	13.8	2.5	
Fe	56	2	He	9.460	4.8	75875	3.5	100	
Se	78	2	He	-0.314	-69.7	113	15.8	2	
As	75	2	He	-0.033	-10.4	97	3.5	2.5	
Ca	44	2	He	10.111	31.5	810	13.0	100	
Na	23	2	He	-14.792	-8.6	97975	0.8	100	
Mg	24	2	He	2.480	7.6	1873	6.2	100	
K	39	2	He	-4.443	-31.1	54076	1.1	100	
Mn	55	2	He	0.190	15.3	1403	9.7	2.5	
Co	59	2	He	0.010	32.1	163	25.5	2.5	
Ni	60	2	He	-0.510	-1.1	170	11.8	2.5	
Cu	63	2	He	-0.023	-51.5	5264	2.7	2	
Zn	66	2	He	0.047	118.2	423	19.7	2.5	
Al	27	2	He	7.370	11.0	2837	7.1	5	CCB Main CR1 Failed
B	11	1	No Gas	12.055	8.1	23583	8.9	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	22.698	108.2	415267	94.3	5	CCB Main CR1 Failed
Si	28	1	No Gas	-9.397	-22.5	283361	4.2	10	
Ag	107	1	No Gas	0.009	282.1	883	61.1	2.5	
Cd	111	1	No Gas	0.023	95.2	103	84.6	1	
Sr	88	1	No Gas	0.104	90.6	5882	57.5	2.5	
Mo	95	1	No Gas	0.037	76.6	317	63.5	2.5	
Sn	118	1	No Gas	0.079	45.9	1660	25.6	5	
Sb	121	1	No Gas	0.086	35.3	1837	26.5	2.5	
Ba	137	1	No Gas	0.303	94.9	1961	81.9	2.5	
Tl	205	1	No Gas	0.047	50.4	1680	46.7	1	
Tl	203	1	No Gas	0.047	50.6	753	46.0	1	
Pb	208	1	No Gas	0.095	52.0	5621	40.6	2.5	
U	238	1	No Gas	0.046	125.0	2209	123.8	2.5	
Ca	43	2	He	17.365	62.8	57	36.7	100	
Sb	121	2	He	0.059	15.9	650	10.7	2.5	
Ti	47	2	He	0.000	#DIV/0!	0	#DIV/0!	2.5	
Cu	63	1	No Gas	0.018	1101.2	9207	33.0	2.5	
Se	82	1	No Gas	-0.653	-99.4	-491	-28.6	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	642139	2.86	839053	76.53	70	120	
Ge	72	2	He	619198	0.85	589070	105.11	70	120	
Ge	72	1	No Gas	2435482	1.26	2387222	102.02	70	120	
In	115	1	No Gas	2848669	1.43	2718732	104.78	70	120	
Bi	209	1	No Gas	2452239	1.72	2414089	101.58	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	273_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T23:44:28-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	159CALB.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	109.175	3.388	993120	0.53	100	109.2	90	110	
Be	9	1	No Gas	110.396	2.082	268820	0.98	100	110.4	90	110	CCV Main CR1-2 Failed
V	51	2	He	99.875	0.549	627833	0.97	100	99.9	90	110	
Cr	52	2	He	95.602	0.646	743738	0.79	100	95.6	90	110	
Fe	56	2	He	9912.336	0.212	66677416	1.11	10000	99.1	90	110	
Se	78	2	He	95.485	1.592	8012	2.43	100	95.5	90	110	
As	75	2	He	99.238	0.517	111972	1.28	100	99.2	90	110	
Ca	44	2	He	9704.748	0.457	303411	1.32	10000	97.0	90	110	
Na	23	2	He	9720.257	0.953	10532364	1.21	10000	97.2	90	110	
Mg	24	2	He	9726.473	0.855	5793271	1.68	10000	97.3	90	110	
K	39	2	He	9856.808	0.695	6179296	0.90	10000	98.6	90	110	
Mn	55	2	He	97.739	0.080	454518	1.25	100	97.7	90	110	
Co	59	2	He	101.384	1.129	1313367	0.36	100	101.4	90	110	
Ni	60	2	He	100.001	0.078	324129	1.31	100	100.0	90	110	
Cu	63	2	He	96.178	0.442	890330	1.32	100	96.2	90	110	
Zn	66	2	He	99.313	1.020	151825	2.16	100	99.3	90	110	
Al	27	2	He	107.965	2.183	29696	2.24	100	108.0	90	110	
B	11	1	No Gas	534.951	3.152	797538	4.98	500	107.0	90	110	
Al	27	1	No Gas	111.226	20.543	1809800	19.77	100	111.2	90	110	CCV Main CR1-2 Failed
Si	28	1	No Gas	454.725	2.033	3566220	1.94	5000	9.1	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	99.366	1.656	1998235	0.09	100	99.4	90	110	
Cd	111	1	No Gas	96.339	1.229	381970	1.14	100	96.3	90	110	
Sr	88	1	No Gas	99.370	1.978	3547788	0.36	100	99.4	90	110	
Mo	95	1	No Gas	97.239	0.989	682252	0.95	100	97.2	90	110	
Sn	118	1	No Gas	92.064	0.763	1107524	2.40	100	92.1	90	110	
Sb	121	1	No Gas	103.333	1.174	1693116	1.01	100	103.3	90	110	
Ba	137	1	No Gas	97.609	0.419	540240	1.32	100	97.6	90	110	
Tl	205	1	No Gas	101.356	1.393	3458843	0.69	100	101.4	90	110	
Tl	203	1	No Gas	99.556	1.253	1505423	1.69	100	99.6	90	110	
Pb	208	1	No Gas	96.303	1.572	4632385	1.23	100	96.3	90	110	
U	238	1	No Gas	98.763	0.949	4798567	0.60	100	98.8	90	110	
Ca	43	2	He	9635.722	2.266	17732	3.13	10000	96.4	90	110	
Sb	121	2	He	92.941	0.445	722647	1.69	100	92.9	90	110	
Ti	47	2	He	97.404	4.591	20182	5.77	100	97.4	90	110	
Cu	63	1	No Gas	100.123	1.202	1540031	1.82	100	100.1	90	110	
Se	82	1	No Gas	100.981	5.873	21701	4.36	100	101.0	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	591263	2.81	839053	70.47	70	120	
Ge	72	2	He	611945	1.29	589070	103.88	70	120	
Ge	72	1	No Gas	2374893	1.64	2387222	99.48	70	120	
In	115	1	No Gas	2764781	1.68	2718732	101.69	70	120	
Bi	209	1	No Gas	2432259	0.71	2414089	100.75	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	274_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T23:46:17-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	159CALB.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	0.391	7.8	36631	0.7	0.5	
Be	9	1	No Gas	0.015	32.3	42	30.2	0.5	
V	51	2	He	-0.158	-8.3	1576	5.3	2.5	
Cr	52	2	He	0.055	8.5	1020	3.5	2.5	
Fe	56	2	He	16.126	13.6	121992	12.3	100	
Se	78	2	He	0.034	311.5	143	6.3	2	
As	75	2	He	-0.038	-37.9	92	17.8	2.5	
Ca	44	2	He	10.174	27.6	817	11.0	100	
Na	23	2	He	-16.694	-3.4	96509	0.6	100	
Mg	24	2	He	3.522	14.3	2517	12.1	100	
K	39	2	He	-2.797	-25.4	55455	0.9	100	
Mn	55	2	He	0.393	14.7	2374	11.5	2.5	
Co	59	2	He	0.017	16.8	257	14.8	2.5	
Ni	60	2	He	-0.491	-1.3	233	8.9	2.5	
Cu	63	2	He	0.020	440.5	5705	14.7	2	
Zn	66	2	He	0.076	106.8	470	26.6	2.5	
Al	27	2	He	12.387	15.3	4221	12.2	5	CCB Main CR1 Failed
B	11	1	No Gas	9.657	14.6	18986	11.1	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	7.889	9.2	184905	6.7	5	CCB Main CR1 Failed
Si	28	1	No Gas	-10.824	-7.5	283590	1.4	10	
Ag	107	1	No Gas	-0.013	-12.2	447	6.8	2.5	
Cd	111	1	No Gas	0.003	167.9	23	89.2	1	
Sr	88	1	No Gas	0.051	16.9	4084	9.1	2.5	
Mo	95	1	No Gas	0.012	30.0	143	17.6	2.5	
Sn	118	1	No Gas	0.065	15.1	1540	6.6	5	
Sb	121	1	No Gas	0.070	2.8	1627	2.0	2.5	
Ba	137	1	No Gas	0.134	12.7	1047	11.2	2.5	
Tl	205	1	No Gas	0.024	38.8	917	34.4	1	
Tl	203	1	No Gas	0.020	12.9	360	12.7	1	
Pb	208	1	No Gas	0.047	6.7	3420	3.5	2.5	
U	238	1	No Gas	0.008	15.6	397	16.4	2.5	
Ca	43	2	He	-5.925	-52.0	13	43.3	100	
Sb	121	2	He	0.057	8.9	640	6.2	2.5	
Ti	47	2	He	0.158	125.0	33	124.9	2.5	
Cu	63	1	No Gas	-0.081	-38.4	7969	6.8	2.5	
Se	82	1	No Gas	-1.102	-82.0	-615	-33.9	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	619072	0.50	839053	73.78	70	120	
Ge	72	2	He	623012	0.10	589070	105.76	70	120	
Ge	72	1	No Gas	2529294	0.81	2387222	105.95	70	120	
In	115	1	No Gas	2938330	1.82	2718732	108.08	70	120	
Bi	209	1	No Gas	2548426	1.42	2414089	105.56	70	120	

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	280CALB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T23:57:34-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	35112	0.00
Be	9	1	No Gas	57	32.41
V	51	2	He	1901	0.31
Cr	52	2	He	713	1.65
Fe	56	2	He	152345	0.01
Se	78	2	He	128	4.23
As	75	2	He	133	19.58
Ca	44	2	He	863	1.57
Na	23	2	He	97808	0.00
Mg	24	2	He	3287	0.12
K	39	2	He	54163	0.00
Mn	55	2	He	2490	0.45
Co	59	2	He	283	8.01
Ni	60	2	He	2187	0.05
Cu	63	2	He	11081	0.05
Zn	66	2	He	520	3.03
Al	27	2	He	4547	0.09
B	11	1	No Gas	9150	0.01
Al	27	1	No Gas	210310	0.00
Si	28	1	No Gas	329638	0.00
Ag	107	1	No Gas	417	0.33
Cd	111	1	No Gas	43	122.99
Sr	88	1	No Gas	4354	0.05
Mo	95	1	No Gas	87	46.76
Sn	118	1	No Gas	983	1.01
Sb	121	1	No Gas	583	1.89
Ba	137	1	No Gas	1167	0.18
Tl	205	1	No Gas	450	1.78
Tl	203	1	No Gas	203	2.79
Pb	208	1	No Gas	2800	0.11
U	238	1	No Gas	480	2.30
Ca	43	2	He	60	111.11
Sb	121	2	He	233	5.61
Ti	47	2	He	33	207.85
Cu	63	1	No Gas	16063	0.02

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD

Calibration Blank Report

Li	6	1	No Gas	592897	1.19
Ge	72	2	He	621187	0.65
Ge	72	1	No Gas	2485988	0.98
In	115	1	No Gas	2922371	1.84

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Bi	209	1	No Gas	2541424	1.31

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	281CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-30T23:59:32-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	280CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	5458	0.02
V	51	2	He	14340	0.01
Cr	52	2	He	16233	0.00
Fe	56	2	He	1523299	0.00
Se	78	2	He	292	2.81
As	75	2	He	2288	0.03
Ca	44	2	He	6752	0.08
Na	23	2	He	291536	0.00
Mg	24	2	He	109219	0.00
K	39	2	He	166485	0.00
Mn	55	2	He	10935	0.02
Co	59	2	He	25344	0.01
Ni	60	2	He	11785	0.03
Cu	63	2	He	40434	0.01
Zn	66	2	He	3691	0.10
Al	27	2	He	3931	0.35
B	11	1	No Gas	23029	0.00
Al	27	1	No Gas	234696	0.00
Si	28	1	No Gas	393762	0.00
Ag	107	1	No Gas	39800	0.00
Cd	111	1	No Gas	8316	0.03
Sr	88	1	No Gas	73428	0.00
Mo	95	1	No Gas	13707	0.01
Sn	118	1	No Gas	23388	0.01
Sb	121	1	No Gas	32768	0.00
Ba	137	1	No Gas	12603	0.01
Tl	205	1	No Gas	66866	0.00
Tl	203	1	No Gas	28069	0.01
Pb	208	1	No Gas	94505	0.00
U	238	1	No Gas	92534	0.00
Ca	43	2	He	437	4.24
Sb	121	2	He	14391	0.03
Cu	63	1	No Gas	69159	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	590154	0.91	592897	99.54	70	120	
Ge	72	2	He	623222	0.60	621187	100.33	70	120	
Ge	72	1	No Gas	2457326	0.72	2485988	98.85	70	120	

Calibration Standard Report

In	115	1	No Gas	2891930	1.47	2922371	98.96	70	120	
Bi	209	1	No Gas	2550491	1.10	2541424	100.36	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	282CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-31T00:01:31-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	280CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	12801	0.01
V	51	2	He	32047	0.00
Cr	52	2	He	37000	0.01
Fe	56	2	He	3442907	0.00
Se	78	2	He	532	1.21
As	75	2	He	5491	0.02
Ca	44	2	He	15075	0.02
Na	23	2	He	570963	0.00
Mg	24	2	He	263017	0.00
K	39	2	He	328395	0.00
Mn	55	2	He	23928	0.00
Co	59	2	He	60668	0.00
Ni	60	2	He	16113	0.01
Cu	63	2	He	47748	0.00
Zn	66	2	He	8019	0.04
Al	27	2	He	3874	0.29
B	11	1	No Gas	43457	0.00
Al	27	1	No Gas	241425	0.00
Si	28	1	No Gas	475728	0.00
Ag	107	1	No Gas	95728	0.00
Cd	111	1	No Gas	19385	0.01
Sr	88	1	No Gas	172845	0.00
Mo	95	1	No Gas	34395	0.00
Sn	118	1	No Gas	56257	0.00
Sb	121	1	No Gas	78833	0.00
Ba	137	1	No Gas	28341	0.00
Tl	205	1	No Gas	162720	0.00
Tl	203	1	No Gas	68846	0.00
Pb	208	1	No Gas	224797	0.00
U	238	1	No Gas	226577	0.00
Ca	43	2	He	940	0.45
Sb	121	2	He	35204	0.00
Cu	63	1	No Gas	79649	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	572013	1.24	592897	96.48	70	120	
Ge	72	2	He	602793	0.59	621187	97.04	70	120	
Ge	72	1	No Gas	2416767	0.80	2485988	97.22	70	120	

Calibration Standard Report

In	115	1	No Gas	2845754	1.86	2922371	97.38	70	120	
Bi	209	1	No Gas	2466567	1.10	2541424	97.05	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	283CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-31T00:03:29-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	280CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	26617	0.00
V	51	2	He	64462	0.00
Cr	52	2	He	76255	0.00
Fe	56	2	He	6885302	0.00
Se	78	2	He	948	0.91
As	75	2	He	11454	0.01
Ca	44	2	He	31750	0.00
Na	23	2	He	1191140	0.00
Mg	24	2	He	538195	0.00
K	39	2	He	624894	0.00
Mn	55	2	He	48132	0.00
Co	59	2	He	123732	0.00
Ni	60	2	He	33007	0.01
Cu	63	2	He	94799	0.00
Zn	66	2	He	16103	0.02
Al	27	2	He	5608	0.08
B	11	1	No Gas	81862	0.00
Al	27	1	No Gas	307412	0.00
Si	28	1	No Gas	658622	0.00
Ag	107	1	No Gas	197563	0.00
Cd	111	1	No Gas	40743	0.00
Sr	88	1	No Gas	357218	0.00
Mo	95	1	No Gas	71823	0.00
Sn	118	1	No Gas	115377	0.00
Sb	121	1	No Gas	161920	0.00
Ba	137	1	No Gas	57454	0.00
Tl	205	1	No Gas	338634	0.00
Tl	203	1	No Gas	142273	0.00
Pb	208	1	No Gas	467085	0.00
U	238	1	No Gas	466817	0.00
Ca	43	2	He	1837	0.50
Sb	121	2	He	71793	0.00
Cu	63	1	No Gas	157484	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	581638	1.43	592897	98.10	70	120	
Ge	72	2	He	619208	0.10	621187	99.68	70	120	
Ge	72	1	No Gas	2468234	0.49	2485988	99.29	70	120	

Calibration Standard Report

In	115	1	No Gas	2890989	1.17	2922371	98.93	70	120	
Bi	209	1	No Gas	2558070	0.81	2541424	100.66	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	284CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-31T00:05:27-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	280CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	261272	0.00
V	51	2	He	616745	0.00
Cr	52	2	He	730160	0.00
Fe	56	2	He	65343027	0.00
Se	78	2	He	7914	0.03
As	75	2	He	109996	0.00
Ca	44	2	He	296014	0.00
Na	23	2	He	10326270	0.00
Mg	24	2	He	5630187	0.00
K	39	2	He	5959291	0.00
Mn	55	2	He	447164	0.00
Co	59	2	He	1294067	0.00
Ni	60	2	He	317766	0.00
Cu	63	2	He	870183	0.00
Zn	66	2	He	149827	0.00
Al	27	2	He	28446	0.01
B	11	1	No Gas	772679	0.00
Al	27	1	No Gas	1595027	0.00
Si	28	1	No Gas	3443468	0.00
Ag	107	1	No Gas	2021531	0.00
Cd	111	1	No Gas	386720	0.00
Sr	88	1	No Gas	3554678	0.00
Mo	95	1	No Gas	692468	0.00
Sn	118	1	No Gas	1101467	0.00
Sb	121	1	No Gas	1695472	0.00
Ba	137	1	No Gas	544711	0.00
Tl	205	1	No Gas	3416703	0.00
Tl	203	1	No Gas	1507374	0.00
Pb	208	1	No Gas	4631976	0.00
U	238	1	No Gas	4806501	0.00
Ca	43	2	He	17358	0.01
Sb	121	2	He	709512	0.00
Cu	63	1	No Gas	1534872	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	569987	0.80	592897	96.14	70	120	
Ge	72	2	He	615947	0.67	621187	99.16	70	120	
Ge	72	1	No Gas	2478200	0.76	2485988	99.69	70	120	

Calibration Standard Report

In	115	1	No Gas	2828446	1.89	2922371	96.79	70	120	
Bi	209	1	No Gas	2497633	0.78	2541424	98.28	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	285CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-31T00:07:19-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	280CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	535764	0.00
V	51	2	He	1416947	0.00
Cr	52	2	He	1579143	0.00
Fe	56	2	He	133866305	0.00
Se	78	2	He	16096	0.01
As	75	2	He	224990	0.00
Ca	44	2	He	605900	0.00
Na	23	2	He	20768848	0.00
Mg	24	2	He	11434710	0.00
K	39	2	He	12220016	0.00
Mn	55	2	He	913424	0.00
Co	59	2	He	2579996	0.00
Ni	60	2	He	646601	0.00
Cu	63	2	He	1873039	0.00
Zn	66	2	He	302641	0.00
Al	27	2	He	54356	0.00
B	11	1	No Gas	1628883	0.00
Al	27	1	No Gas	3001752	0.00
Si	28	1	No Gas	6685044	0.00
Ag	107	1	No Gas	4012051	0.00
Cd	111	1	No Gas	793645	0.00
Sr	88	1	No Gas	7126515	0.00
Mo	95	1	No Gas	1600805	0.00
Sn	118	1	No Gas	2420460	0.00
Sb	121	1	No Gas	3415485	0.00
Ba	137	1	No Gas	1141810	0.00
Tl	205	1	No Gas	6945936	0.00
Tl	203	1	No Gas	3110245	0.00
Pb	208	1	No Gas	9816384	0.00
U	238	1	No Gas	9748106	0.00
Ca	43	2	He	36245	0.00
Sb	121	2	He	1573613	0.00
Cu	63	1	No Gas	3044030	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	587886	2.28	592897	99.15	70	120	
Ge	72	2	He	610235	0.67	621187	98.24	70	120	
Ge	72	1	No Gas	2389223	1.49	2485988	96.11	70	120	

Calibration Standard Report

In	115	1	No Gas	2795473	1.14	2922371	95.66	70	120	
Bi	209	1	No Gas	2423930	0.85	2541424	95.38	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICCV
Data File Name	287_ICV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\083022A.b
Acq Date Time	2022-08-31T00:11:02-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	280CALB.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	107.830	0.727	1027867	1.34	100	107.8	90	110	
Be	9	1	No Gas	102.922	0.440	271004	0.75	100	102.9	90	110	
V	51	2	He	90.548	0.418	640905	0.08	100	90.5	90	110	
Cr	52	2	He	94.945	0.272	756641	0.11	100	94.9	90	110	
Fe	56	2	He	9779.372	0.490	66791332	0.41	10000	97.8	90	110	
Se	78	2	He	100.119	2.043	8278	1.73	100	100.1	90	110	
As	75	2	He	100.936	0.821	115847	1.15	100	100.9	90	110	
Ca	44	2	He	9801.586	0.423	303129	0.43	10000	98.0	90	110	
Na	23	2	He	9840.704	1.475	10496447	1.32	10000	98.4	90	110	
Mg	24	2	He	9910.790	1.642	5786732	1.72	10000	99.1	90	110	
K	39	2	He	9842.547	1.361	6150927	1.18	10000	98.4	90	110	
Mn	55	2	He	98.792	0.332	461241	0.58	100	98.8	90	110	
Co	59	2	He	101.941	0.412	1347658	0.16	100	101.9	90	110	
Ni	60	2	He	99.868	0.528	330436	0.42	100	99.9	90	110	
Cu	63	2	He	94.499	0.326	898383	0.32	100	94.5	90	110	
Zn	66	2	He	101.244	0.560	156834	0.22	100	101.2	90	110	
Al	27	2	He	89.201	7.136	27144	5.59	100	89.2	90	110	ICV Main CR1 Failed
B	11	1	No Gas	519.777	3.022	830672	2.44	500	104.0	90	110	
Al	27	1	No Gas	94.281	1.440	1572802	1.30	100	94.3	90	110	
Si	28	1	No Gas	499.819	2.245	3610222	1.52	500	100.0	90	110	
Ag	107	1	No Gas	102.594	0.793	2116263	0.80	100	102.6	90	110	
Cd	111	1	No Gas	98.868	1.305	400800	1.31	100	98.9	90	110	
Sr	88	1	No Gas	100.322	1.564	3670120	1.69	100	100.3	90	110	
Mo	95	1	No Gas	88.593	0.796	708481	0.76	100	88.6	90	110	ICV Main CR1 Failed
Sn	118	1	No Gas	101.142	2.533	1234514	2.51	100	101.1	90	110	
Sb	121	1	No Gas	99.484	1.334	1755523	1.29	100	99.5	90	110	
Ba	137	1	No Gas	97.477	1.656	566520	1.78	100	97.5	90	110	
Tl	205	1	No Gas	102.479	0.854	3651714	0.07	100	102.5	90	110	
Tl	203	1	No Gas	99.914	2.037	1589441	1.35	100	99.9	90	110	
Pb	208	1	No Gas	95.922	0.967	4793369	0.44	100	95.9	90	110	
U	238	1	No Gas	97.071	1.042	4856353	0.65	100	97.1	90	110	
Ca	43	2	He	9843.328	2.019	18142	1.79	10000	98.4	90	110	
Sb	121	2	He	94.378	0.928	745723	0.85	100	94.4	90	110	
Ti	47	2	He	97.189	2.412	20235	2.07	100	97.2	90	110	
Cu	63	1	No Gas	102.734	1.670	1626763	1.22	100	102.7	90	110	
Se	82	1	No Gas	98.493	4.432	22324	4.10	100	98.5	90	110	

QC ISTD Table

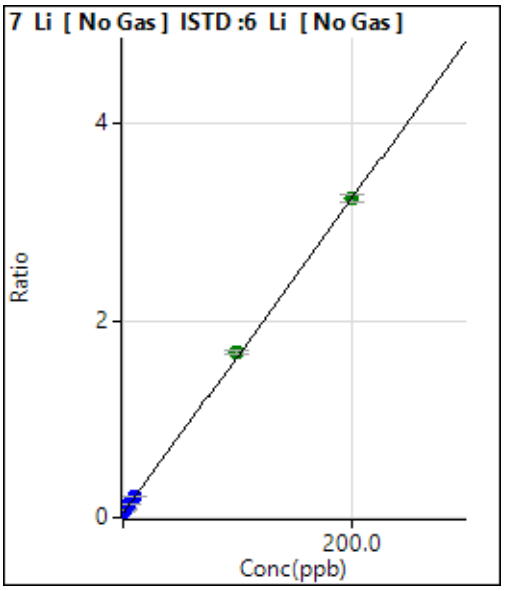
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	576897	0.98	592897	97.30	70	120	
Ge	72	2	He	626201	0.34	621187	100.81	70	120	
Ge	72	1	No Gas	2490392	0.52	2485988	100.18	70	120	
In	115	1	No Gas	2876747	0.27	2922371	98.44	70	120	
Bi	209	1	No Gas	2510092	0.80	2541424	98.77	70	120	

Calibration for 287_ICV.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\083022A.b\
Analysis File: 083022A.batch.bin
DA Date-Time: 08/31/2022 00:11:43
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	280CALB.d	CAL BLK	08/30/2022 23:57:34
2	281CALS.d	2/10/200	08/30/2022 23:59:32
3	282CALS.d	5/25/500	08/31/2022 00:01:31
4	283CALS.d	10/50/100	08/31/2022 00:03:29
5	284CALS.d	100/500/10K	08/31/2022 00:05:27
6	285CALS.d	200/1000/20K	08/31/2022 00:07:19

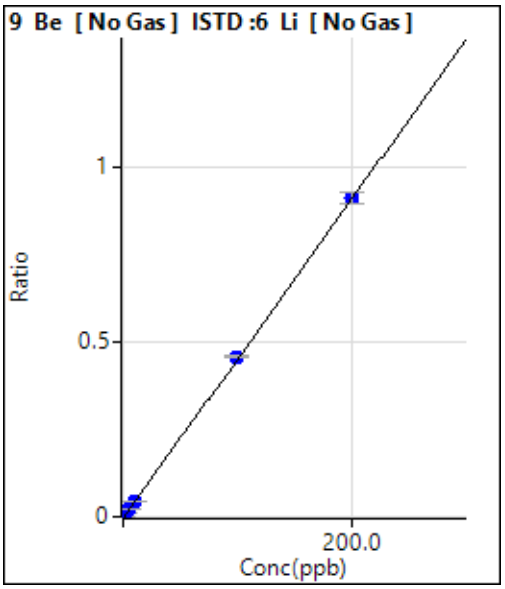
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	35112.09	0.0592	P	1.0	
2	☐	2.000	1.785	51776.75	0.0877	P	1.5	-10.7
3	☐	5.000	4.676	76590.64	0.1339	P	2.6	-6.5
4	☐	10.000	9.324	121069.99	0.2082	P	0.7	-6.8
5	☐	100.000	101.604	958770.32	1.6822	A	1.9	1.6
6	☐	200.000	199.242	1905125.23	3.2419	A	2.6	-0.4

y = 0.0160 * x + 0.0592
R = 0.9999
DL = 0.1082 ppb
BEC = 3.707 ppb

Weight: <None>
Min Conc: <None>

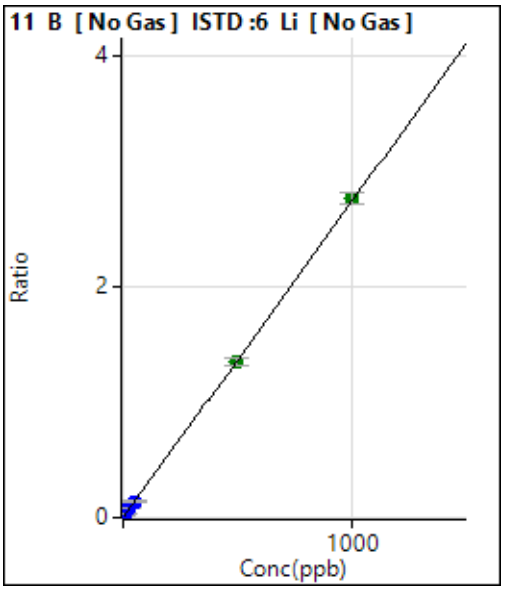


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	56.67	0.0001	P	17.8	
2	☐	2.000	2.006	5457.77	0.0092	P	1.9	0.3
3	☐	5.000	4.883	12800.88	0.0224	P	1.6	-2.3
4	☐	10.000	10.009	26616.95	0.0458	P	2.0	0.1
5	☐	100.000	100.429	261271.58	0.4584	P	0.4	0.4
6	☐	200.000	199.788	535764.17	0.9118	P	3.4	-0.1

y = 0.0046 * x + 9.5521E-005
R = 1.0000
DL = 0.0112 ppb
BEC = 0.02093 ppb

Weight: <None>
Min Conc: <None>

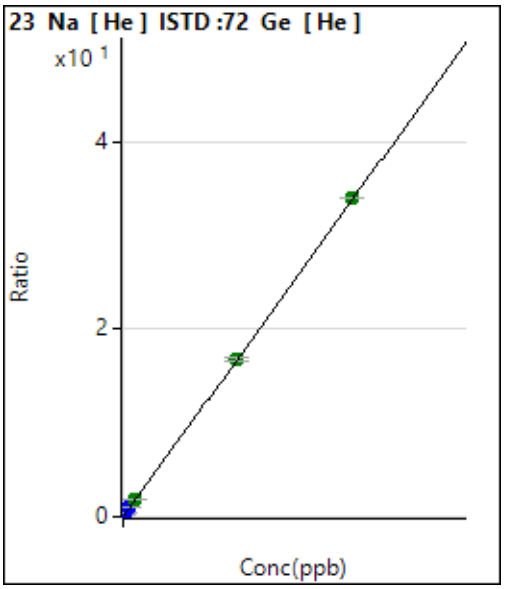
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	9149.72	0.0154	P	2.0	
2	☐	10.000	8.606	23028.99	0.0390	P	0.9	-13.9
3	☐	25.000	22.088	43457.09	0.0760	P	1.0	-11.6
4	☐	50.000	45.726	81862.28	0.1408	P	2.5	-8.5
5	☐	500.000	488.850	772679.39	1.3553	A	4.2	-2.2
6	☐	1000.000	1005.876	1628882.89	2.7724	A	4.0	0.6

y = 0.0027 * x + 0.0154
R = 0.9999
DL = 0.3424 ppb
BEC = 5.631 ppb

Weight: <None>
Min Conc: <None>

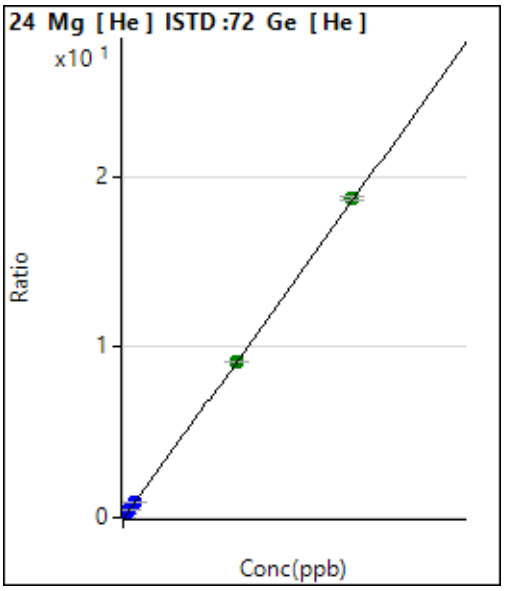


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	97807.67	0.1575	P	0.9	
2	☐	200.000	183.927	291536.45	0.4678	P	1.1	-8.0
3	☐	500.000	468.023	570962.72	0.9472	P	0.7	-6.4
4	☐	1000.000	1046.715	1191140.09	1.9237	A	0.8	4.7
5	☐	10000.00	9843.042	10326270.05	16.7663	A	2.1	-1.6
6	☐	20000.00	20077.10	20768848.44	34.0350	A	0.6	0.4

y = 0.0017 * x + 0.1575
R = 1.0000
DL = 2.612 ppb
BEC = 93.31 ppb

Weight: <None>
Min Conc: <None>

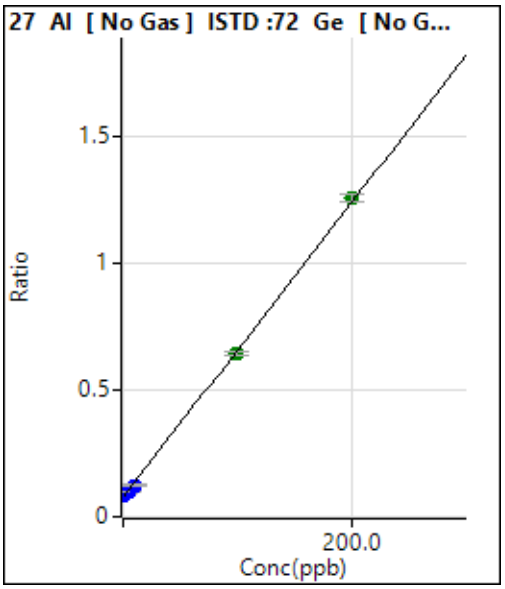
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3287.13	0.0053	P	4.6	
2	☐	200.000	182.387	109218.73	0.1753	P	1.1	-8.8
3	☐	500.000	462.555	263016.69	0.4363	P	1.0	-7.5
4	☐	1000.000	927.017	538195.35	0.8692	P	0.8	-7.3
5	☐	10000.00	9803.372	5630186.59	9.1409	A	0.5	-2.0
6	☐	20000.00	20103.07	11434710.25	18.7390	A	0.9	0.5

y = 9.3188E-004 * x + 0.0053
R = 0.9999
DL = 0.7886 ppb
BEC = 5.68 ppb

Weight: <None>
Min Conc: <None>

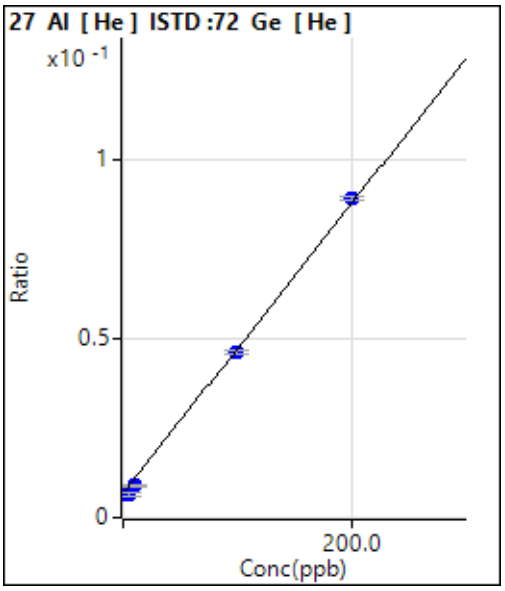


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	210310.03	0.0846	P	5.2	
2	☐	2.000	1.886	234696.10	0.0955	P	6.5	-5.7
3	☐	5.000	2.643	241424.97	0.0999	P	2.0	-47.1
4	☐	10.000	6.889	307412.00	0.1245	P	4.9	-31.1
5	☐	100.000	96.353	1595027.16	0.6436	A	2.0	-3.6
6	☐	200.000	202.039	3001751.93	1.2567	A	2.8	1.0

y = 0.0058 * x + 0.0846
R = 0.9997
DL = 2.257 ppb
BEC = 14.58 ppb

Weight: <None>
Min Conc: <None>

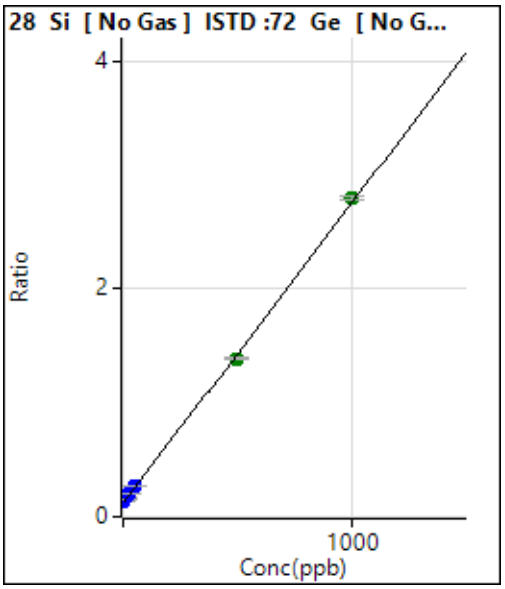
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4547.49	0.0073	P	4.1	
2	☐	2.000	-2.508	3930.66	0.0063	P	13.7	-225.4
3	☐	5.000	-2.219	3873.95	0.0064	P	10.7	-144.4
4	☐	10.000	4.298	5607.91	0.0091	P	4.5	-57.0
5	☐	100.000	96.205	28446.03	0.0462	P	1.7	-3.8
6	☐	200.000	202.408	54356.47	0.0891	P	1.7	1.2

y = 4.0394E-004 * x + 0.0073
R = 0.9995
DL = 2.225 ppb
BEC = 18.12 ppb

Weight: <None>
Min Conc: <None>

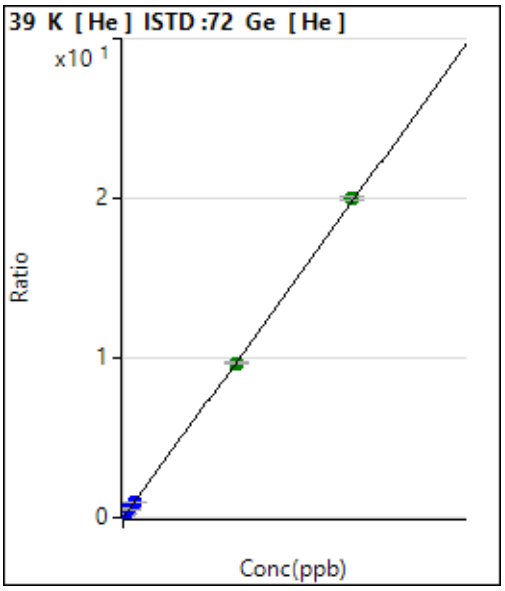


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	329638.03	0.1326	P	1.2	
2	☐	10.000	10.490	393761.89	0.1602	P	1.0	4.9
3	☐	25.000	24.379	475728.36	0.1969	P	1.1	-2.5
4	☐	50.000	50.938	658622.15	0.2668	P	0.2	1.9
5	☐	500.000	476.937	3443467.87	1.3895	A	1.4	-4.6
6	☐	1000.000	1011.495	6685044.28	2.7982	A	0.7	1.1

y = 0.0026 * x + 0.1326
R = 0.9996
DL = 1.794 ppb
BEC = 50.32 ppb

Weight: <None>
Min Conc: <None>

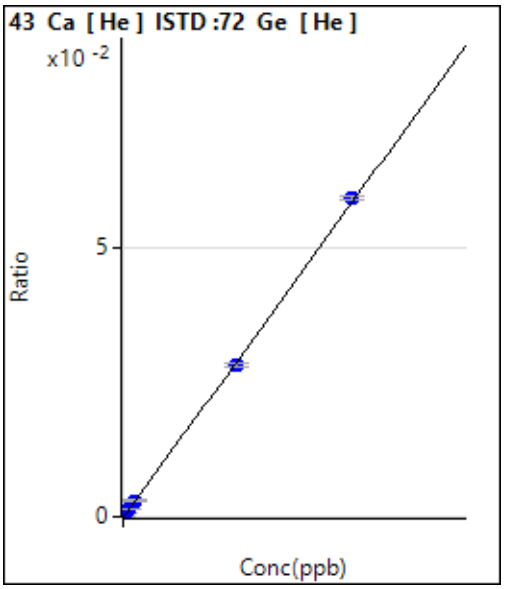
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	54162.92	0.0872	P	1.8	
2	☐	200.000	181.923	166484.77	0.2671	P	1.0	-9.0
3	☐	500.000	462.635	328394.92	0.5448	P	0.8	-7.5
4	☐	1000.000	932.113	624893.96	1.0092	P	0.8	-6.8
5	☐	10000.00	9693.512	5959291.16	9.6754	A	0.9	-3.1
6	☐	20000.00	20157.75	12220016.49	20.0259	A	1.2	0.8

y = 9.8913E-004 * x + 0.0872
R = 0.9998
DL = 4.66 ppb
BEC = 88.15 ppb

Weight: <None>
Min Conc: <None>

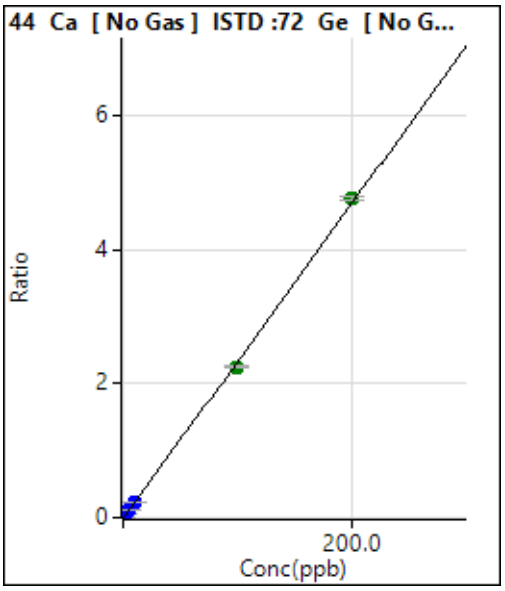


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	60.00	0.0001	P	66.6	
2	☐	200.000	205.875	436.68	0.0007	P	18.1	2.9
3	☐	500.000	498.814	940.05	0.0016	P	4.8	-0.2
4	☐	1000.000	978.260	1836.82	0.0030	P	9.1	-2.2
5	☐	10000.00	9574.120	17358.03	0.0282	P	2.1	-4.3
6	☐	20000.00	20213.99	36244.54	0.0594	P	1.0	1.1

y = 2.9336E-006 * x + 9.6446E-005
R = 0.9997
DL = 65.73 ppb
BEC = 32.88 ppb

Weight: <None>
Min Conc: <None>

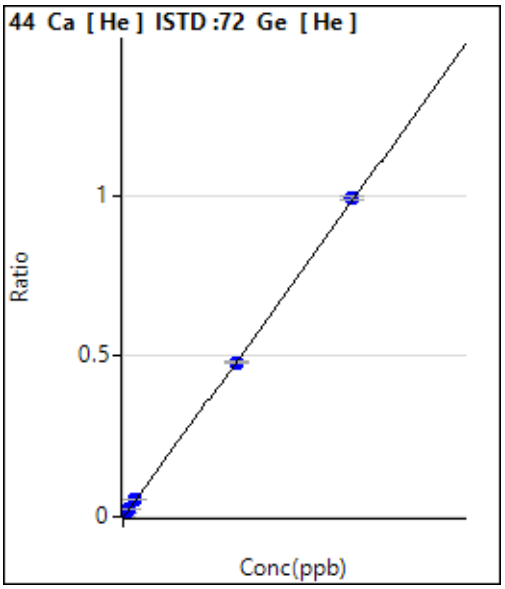
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	23466.98	0.0094	P	1.0	
2	☐	2.000	1.861	130810.66	0.0532	P	1.1	-6.9
3	☐	5.000	4.518	279707.76	0.1157	P	0.9	-9.6
4	☐	10.000	9.260	561047.89	0.2273	P	0.5	-7.4
5	☐	100.000	95.190	5573722.00	2.2491	A	1.1	-4.8
6	☐	200.000	202.455	11401667.75	4.7728	A	1.5	1.2

y = 0.0235 * x + 0.0094
R = 0.9996
DL = 0.0123 ppb
BEC = 0.4012 ppb

Weight: <None>
Min Conc: <None>

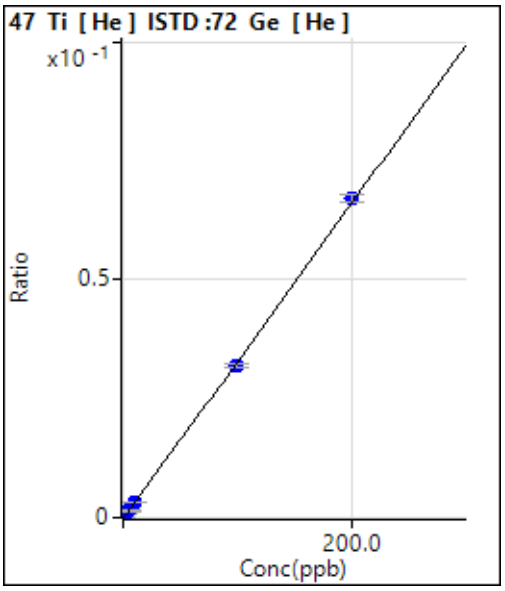


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	863.38	0.0014	P	13.7	
2	☐	200.000	191.748	6751.76	0.0108	P	4.9	-4.1
3	☐	500.000	479.607	15075.17	0.0250	P	2.6	-4.1
4	☐	1000.000	1012.973	31750.17	0.0513	P	1.5	1.3
5	☐	10000.00	9731.236	296014.43	0.4806	P	1.4	-2.7
6	☐	20000.00	20134.32	605900.23	0.9929	P	0.7	0.7

y = 4.9246E-005 * x + 0.0014
R = 0.9999
DL = 11.63 ppb
BEC = 28.23 ppb

Weight: <None>
Min Conc: <None>

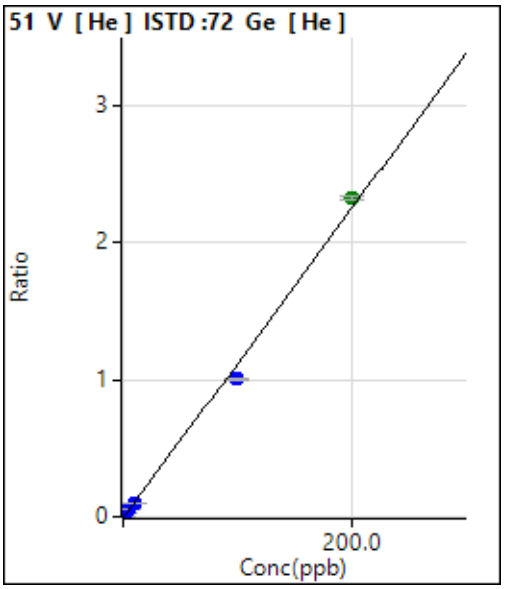
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	33.33	0.0001	P	68.7	
2	☐	2.000	2.306	510.02	0.0008	P	20.4	15.3
3	☐	5.000	4.335	900.05	0.0015	P	11.3	-13.3
4	☐	10.000	9.343	1953.51	0.0032	P	6.1	-6.6
5	☐	100.000	95.807	19620.93	0.0319	P	3.0	-4.2
6	☐	200.000	202.143	40978.11	0.0672	P	1.9	1.1

y = 3.3195E-004 * x + 5.3523E-005
R = 0.9997
DL = 0.3322 ppb
BEC = 0.1612 ppb

Weight: <None>
Min Conc: <None>

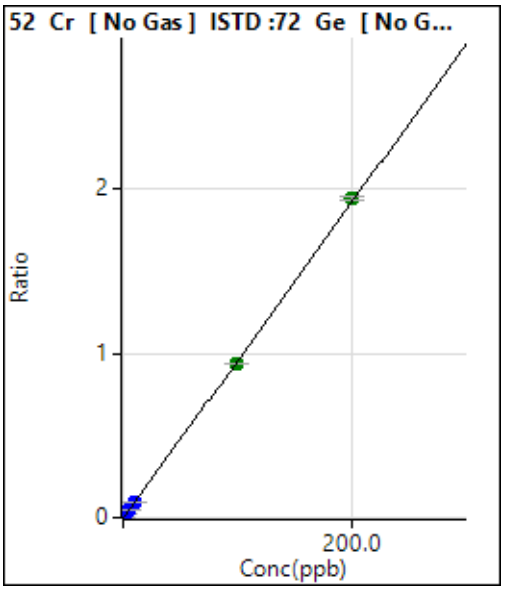


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1901.26	0.0031	P	5.4	
2	☐	2.000	1.770	14339.77	0.0230	P	0.5	-11.5
3	☐	5.000	4.446	32047.41	0.0532	P	1.1	-11.1
4	☐	10.000	8.966	64461.72	0.1041	P	0.4	-10.3
5	☐	100.000	88.582	616744.75	1.0013	P	0.9	-11.4
6	☐	200.000	205.777	1416946.82	2.3221	A	1.1	2.9

y = 0.0113 * x + 0.0031
R = 0.9978
DL = 0.04363 ppb
BEC = 0.2715 ppb

Weight: <None>
Min Conc: <None>

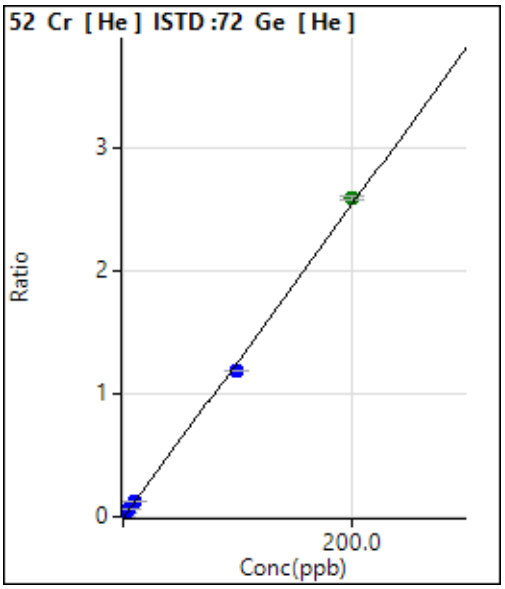
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13743.76	0.0055	P	3.3	
2	☐	2.000	1.948	59619.95	0.0243	P	2.1	-2.6
3	☐	5.000	4.768	124159.48	0.0514	P	2.0	-4.6
4	☐	10.000	9.699	243827.29	0.0988	P	0.3	-3.0
5	☐	100.000	96.841	2321287.26	0.9367	A	0.8	-3.2
6	☐	200.000	201.601	4644214.10	1.9440	A	1.2	0.8

y = 0.0096 * x + 0.0055
R = 0.9998
DL = 0.05689 ppb
BEC = 0.575 ppb

Weight: <None>
Min Conc: <None>

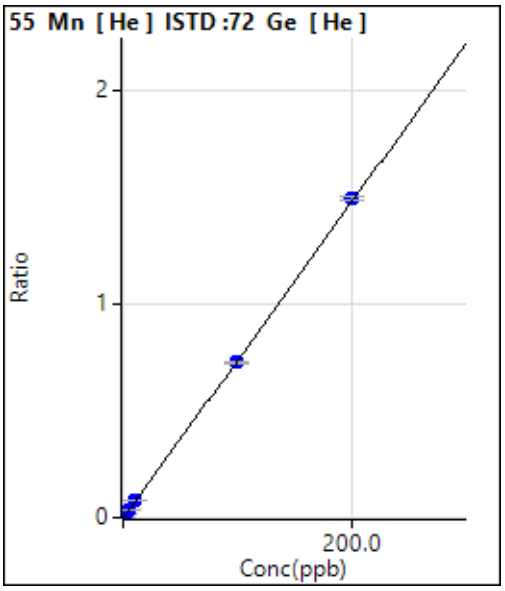


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	713.37	0.0011	P	12.4	
2	☐	2.000	1.958	16233.22	0.0260	P	1.0	-2.1
3	☐	5.000	4.738	37000.28	0.0614	P	2.4	-5.2
4	☐	10.000	9.596	76254.89	0.1231	P	0.0	-4.0
5	☐	100.000	93.150	730160.04	1.1855	P	1.2	-6.9
6	☐	200.000	203.452	1579143.05	2.5879	A	1.6	1.7

y = 0.0127 * x + 0.0011
R = 0.9992
DL = 0.03357 ppb
BEC = 0.09037 ppb

Weight: <None>
Min Conc: <None>

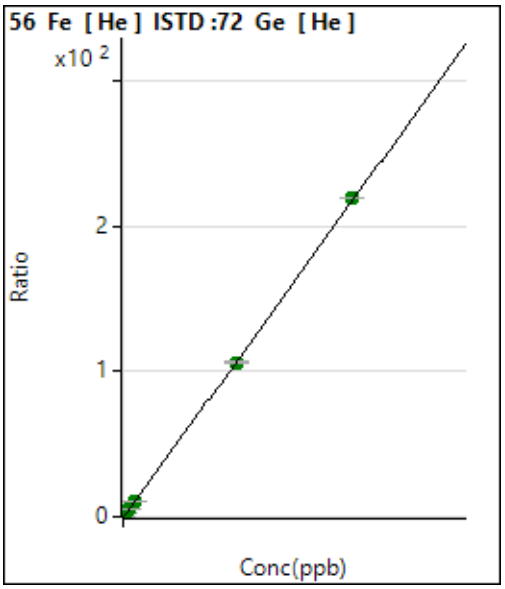
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2490.29	0.0040	P	10.7	
2	☐	2.000	1.826	10934.53	0.0175	P	1.8	-8.7
3	☐	5.000	4.813	23928.03	0.0397	P	0.5	-3.7
4	☐	10.000	9.942	48131.76	0.0777	P	1.2	-0.6
5	☐	100.000	97.371	447164.26	0.7260	P	1.6	-2.6
6	☐	200.000	201.324	913424.34	1.4969	P	0.8	0.7

y = 0.0074 * x + 0.0040
R = 0.9999
DL = 0.1737 ppb
BEC = 0.5404 ppb

Weight: <None>
Min Conc: <None>

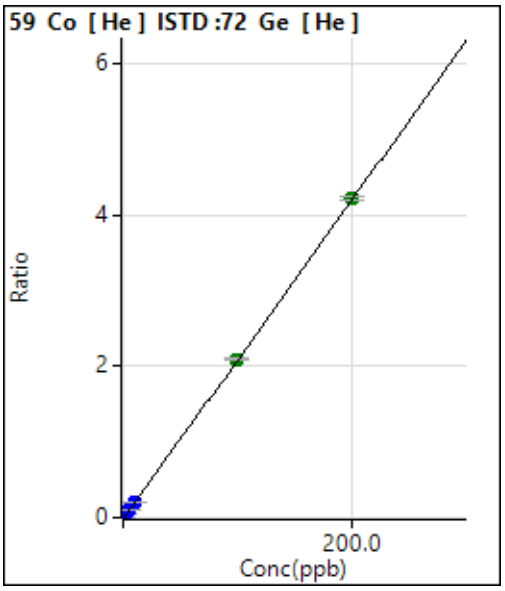


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	152345.24	0.2452	P	8.5	
2	☐	200.000	202.100	1523299.46	2.4444	A	2.4	1.0
3	☐	500.000	502.329	3442906.51	5.7114	A	1.1	0.5
4	☐	1000.000	999.316	6885301.56	11.1195	A	0.4	-0.1
5	☐	10000.00	9726.686	65343027.36	106.088	A	0.7	-2.7
6	☐	20000.00	20136.61	133866304.6	219.366	A	0.4	0.7

y = 0.0109 * x + 0.2452
R = 0.9999
DL = 5.752 ppb
BEC = 22.54 ppb

Weight: <None>
Min Conc: <None>

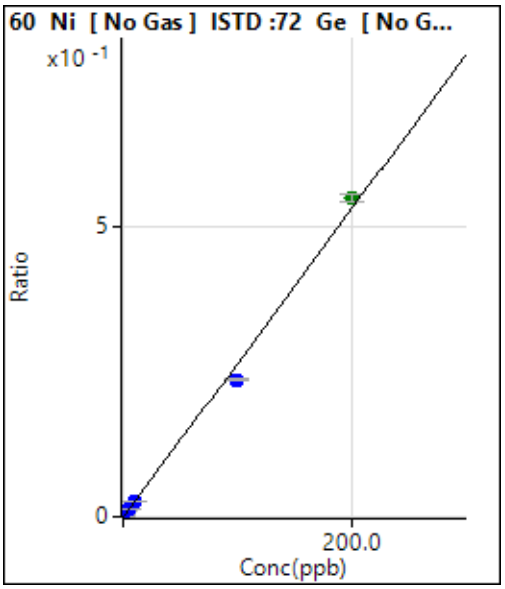
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	283.34	0.0005	P	22.8	
2	☐	2.000	1.905	25343.77	0.0407	P	1.7	-4.7
3	☐	5.000	4.747	60668.22	0.1007	P	2.0	-5.1
4	☐	10.000	9.445	123731.91	0.1998	P	0.4	-5.5
5	☐	100.000	99.519	1294067.01	2.1010	A	0.9	-0.5
6	☐	200.000	200.275	2579996.21	4.2277	A	1.4	0.1

y = 0.0211 * x + 4.5622E-004
R = 1.0000
DL = 0.01481 ppb
BEC = 0.02161 ppb

Weight: <None>
Min Conc: <None>

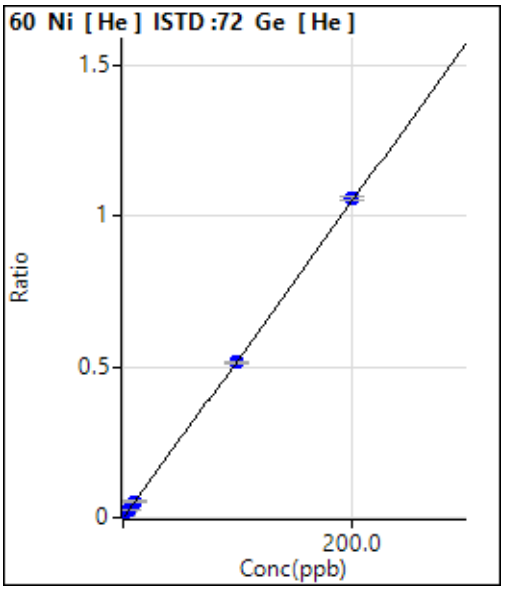


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4070.69	0.0016	P	3.8	
2	☐	2.000	2.761	22021.44	0.0090	P	5.0	38.1
3	☐	5.000	4.093	30200.55	0.0125	P	2.2	-18.1
4	☐	10.000	8.776	61502.27	0.0249	P	1.1	-12.2
5	☐	100.000	88.003	582572.48	0.2351	P	1.0	-12.0
6	☐	200.000	206.075	1309842.51	0.5483	A	2.7	3.0

y = 0.0027 * x + 0.0016
R = 0.9975
DL = 0.07035 ppb
BEC = 0.6171 ppb

Weight: <None>
Min Conc: <None>

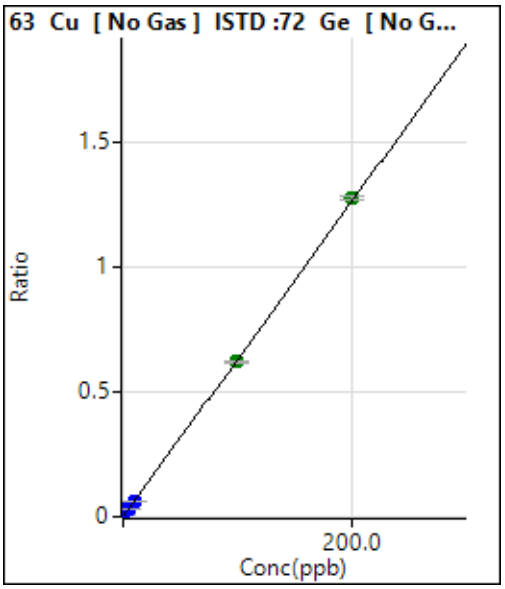
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2186.89	0.0035	P	0.5	
2	☐	2.000	2.932	11785.27	0.0189	P	4.2	46.6
3	☐	5.000	4.422	16113.12	0.0267	P	1.4	-11.6
4	☐	10.000	9.485	33007.03	0.0533	P	3.9	-5.1
5	☐	100.000	97.628	317766.24	0.5159	P	1.6	-2.4
6	☐	200.000	201.217	646600.63	1.0596	P	0.7	0.6

y = 0.0052 * x + 0.0035
R = 0.9999
DL = 0.01013 ppb
BEC = 0.6707 ppb

Weight: <None>
Min Conc: <None>

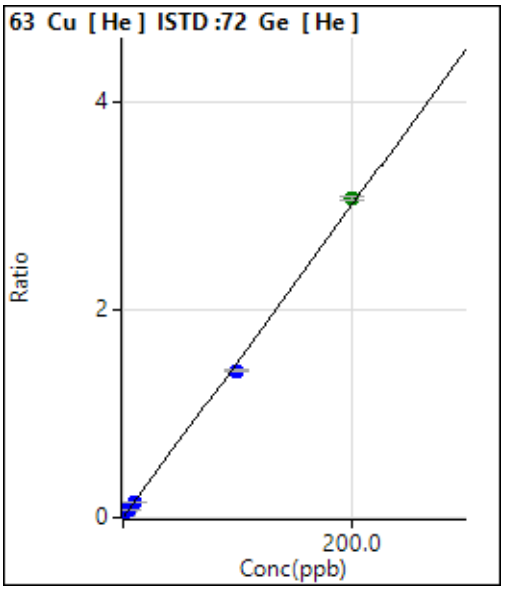


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16063.00	0.0065	P	1.7	
2	☐	2.000	3.445	69159.02	0.0281	P	2.0	72.2
3	☐	5.000	4.210	79649.29	0.0330	P	3.6	-15.8
4	☐	10.000	9.108	157483.83	0.0638	P	0.4	-8.9
5	☐	100.000	97.346	1534871.80	0.6193	A	1.6	-2.7
6	☐	200.000	201.377	3044029.54	1.2743	A	1.7	0.7

y = 0.0063 * x + 0.0065
R = 0.9998
DL = 0.05271 ppb
BEC = 1.026 ppb

Weight: <None>
Min Conc: <None>

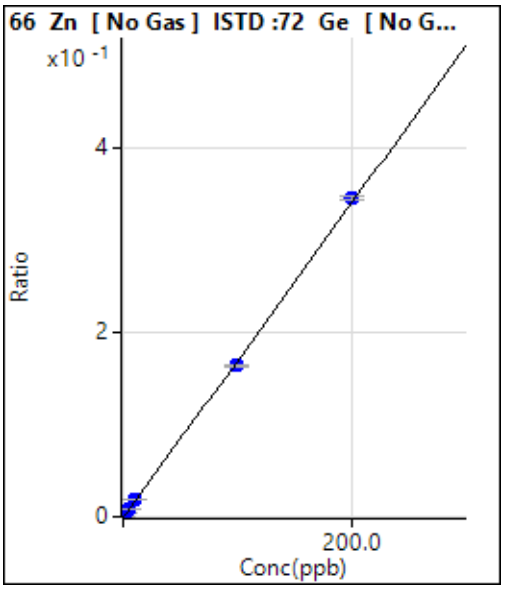
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11081.45	0.0178	P	5.7	
2	☐	2.000	3.138	40433.74	0.0649	P	3.8	56.9
3	☐	5.000	4.093	47747.55	0.0792	P	1.1	-18.1
4	☐	10.000	9.021	94799.09	0.1531	P	1.8	-9.8
5	☐	100.000	93.043	870182.93	1.4128	P	1.0	-7.0
6	☐	200.000	203.539	1873039.29	3.0695	A	1.5	1.8

y = 0.0150 * x + 0.0178
R = 0.9991
DL = 0.2041 ppb
BEC = 1.19 ppb

Weight: <None>
Min Conc: <None>

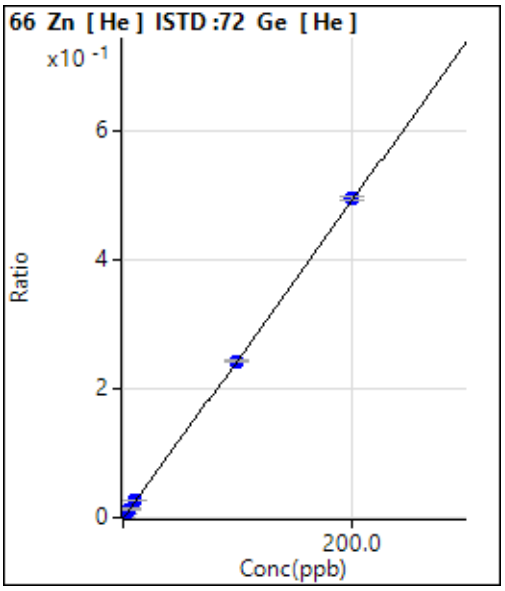


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1263.42	0.0005	P	5.0	
2	☐	2.000	2.115	10127.23	0.0041	P	1.4	5.8
3	☐	5.000	4.915	21517.40	0.0089	P	2.1	-1.7
4	☐	10.000	10.270	44553.36	0.0181	P	0.4	2.7
5	☐	100.000	95.552	405708.51	0.1637	P	1.6	-4.4
6	☐	200.000	202.212	826340.17	0.3459	P	1.6	1.1

y = 0.0017 * x + 5.0822E-004
R = 0.9996
DL = 0.04495 ppb
BEC = 0.2975 ppb

Weight: <None>
Min Conc: <None>

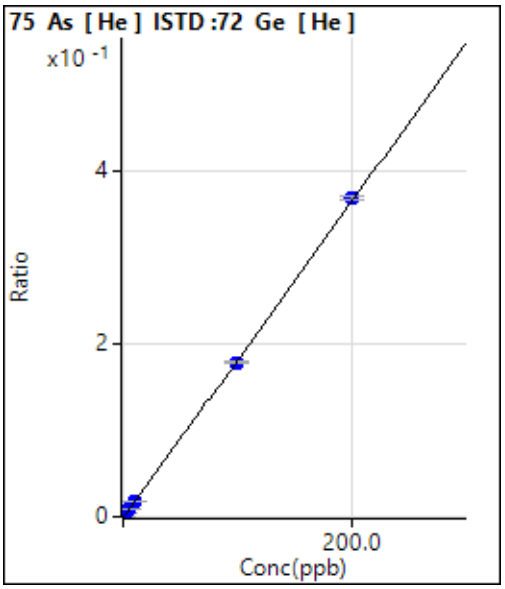
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	520.02	0.0008	P	15.5	
2	☐	2.000	2.063	3690.58	0.0059	P	4.2	3.1
3	☐	5.000	5.057	8019.17	0.0133	P	3.8	1.1
4	☐	10.000	10.209	16103.11	0.0260	P	2.8	2.1
5	☐	100.000	98.324	149826.85	0.2433	P	1.0	-1.7
6	☐	200.000	200.826	302641.23	0.4960	P	1.6	0.4

y = 0.0025 * x + 8.3700E-004
R = 0.9999
DL = 0.1582 ppb
BEC = 0.3395 ppb

Weight: <None>
Min Conc: <None>

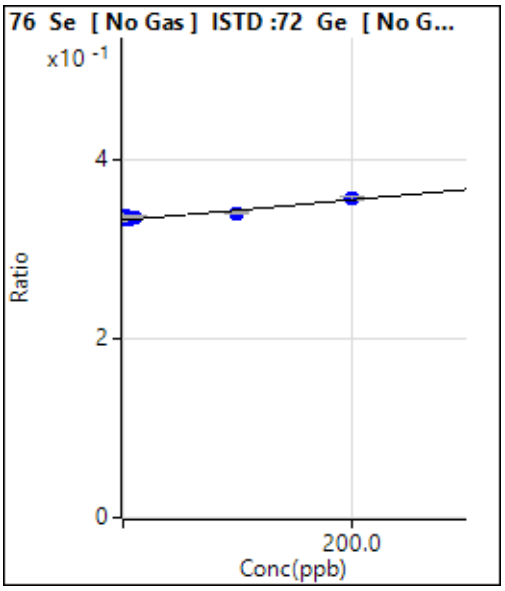


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	133.34	0.0002	P	26.7	
2	☐	2.000	1.888	2287.98	0.0037	P	1.2	-5.6
3	☐	5.000	4.859	5491.14	0.0091	P	1.3	-2.8
4	☐	10.000	9.987	11453.79	0.0185	P	1.3	-0.1
5	☐	100.000	97.435	109996.35	0.1786	P	0.8	-2.6
6	☐	200.000	201.288	224989.97	0.3687	P	0.8	0.6

y = 0.0018 * x + 2.1486E-004
R = 0.9999
DL = 0.09406 ppb
BEC = 0.1174 ppb

Weight: <None>
Min Conc: <None>

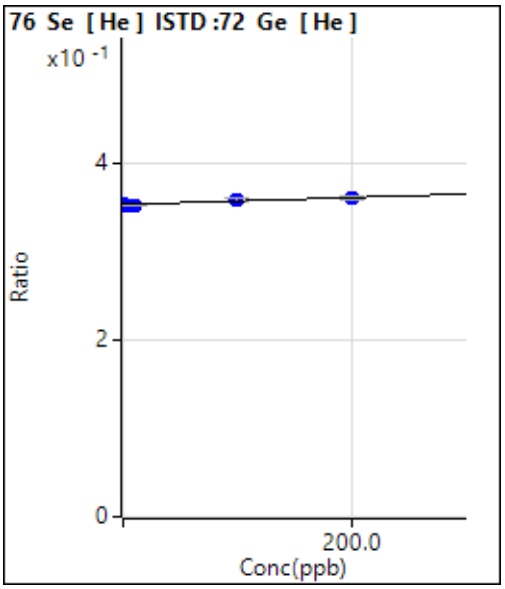
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	827000.95	0.3327	P	0.8	
2	☐	2.000	46.595	830711.26	0.3381	P	1.3	2229.8
3	☐	5.000	5.520	805516.50	0.3333	P	1.0	10.4
4	☐	10.000	31.421	830103.14	0.3363	P	0.7	214.2
5	☐	100.000	69.940	844486.94	0.3408	P	0.6	-30.1
6	☐	200.000	213.500	853757.98	0.3574	P	1.5	6.7

y = 1.1572E-004 * x + 0.3327
R = 0.9523
DL = 72.61 ppb
BEC = 2875 ppb

Weight: <None>
Min Conc: <None>

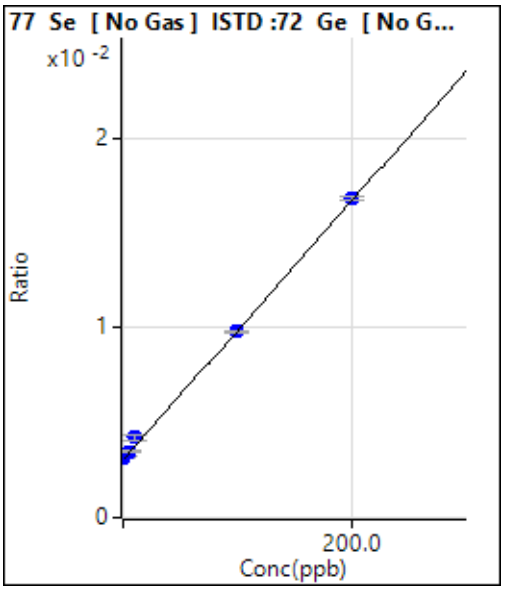


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	219548.47	0.3534	P	0.3	
2	☐	2.000	-41.485	219219.83	0.3518	P	1.2	-2174.
3	☐	5.000	-15.942	212656.55	0.3528	P	0.9	-418.8
4	☐	10.000	-13.080	218525.76	0.3529	P	0.2	-230.8
5	☐	100.000	132.376	220980.77	0.3588	P	0.7	32.4
6	☐	200.000	185.924	220244.04	0.3609	P	0.9	-7.0

y = 4.0291E-005 * x + 0.3534
R = 0.9664
DL = 90.74 ppb
BEC = 8772 ppb

Weight: <None>
Min Conc: <None>

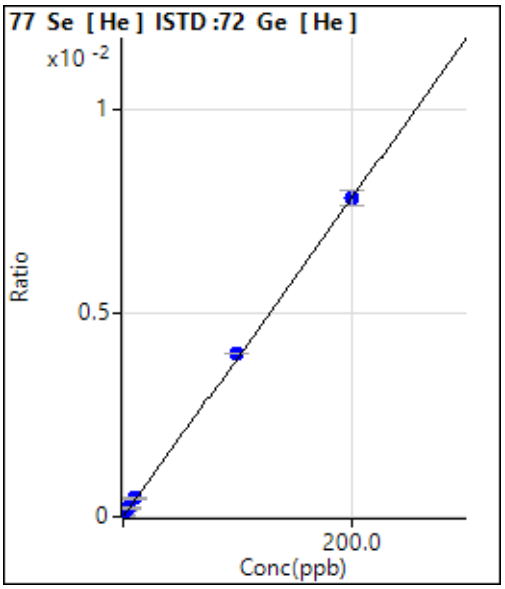
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7805.73	0.0031	P	2.8	
2	☐	2.000	3.067	8225.97	0.0033	P	4.6	53.3
3	☐	5.000	5.019	8412.78	0.0035	P	1.2	0.4
4	☐	10.000	15.828	10407.54	0.0042	P	5.5	58.3
5	☐	100.000	97.721	24268.85	0.0098	P	1.0	-2.3
6	☐	200.000	200.837	40173.44	0.0168	P	0.6	0.4

y = 6.8093E-005 * x + 0.0031
R = 0.9995
DL = 3.821 ppb
BEC = 46.1 ppb

Weight: <None>
Min Conc: <None>

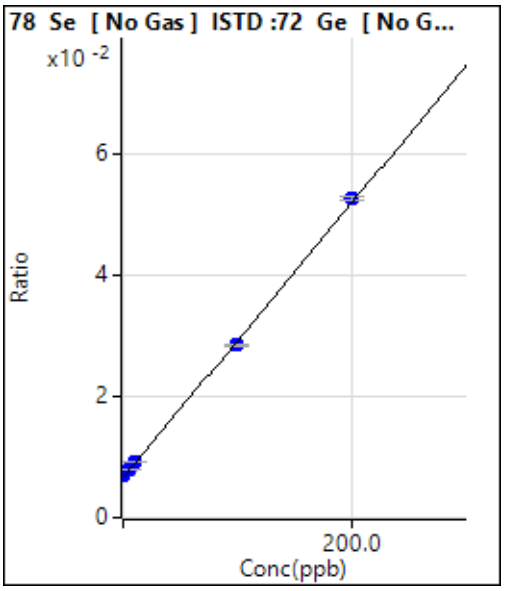


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20.00	0.0000	P	86.6	
2	☐	2.000	3.143	96.67	0.0002	P	15.9	57.1
3	☐	5.000	4.967	136.67	0.0002	P	21.9	-0.7
4	☐	10.000	10.868	283.34	0.0005	P	14.3	8.7
5	☐	100.000	101.605	2470.28	0.0040	P	1.0	1.6
6	☐	200.000	199.143	4777.60	0.0078	P	4.7	-0.4

y = 3.9155E-005 * x + 3.2091E-005
R = 0.9999
DL = 2.129 ppb
BEC = 0.8196 ppb

Weight: <None>
Min Conc: <None>

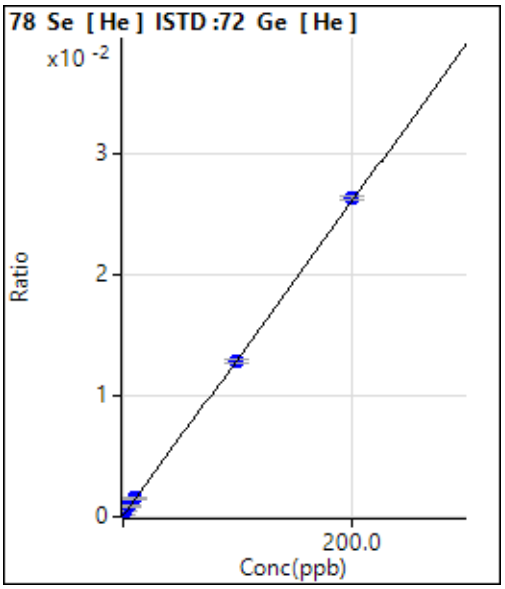
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	17157.82	0.0069	P	0.1	
2	☐	2.000	2.886	18569.69	0.0076	P	0.9	44.3
3	☐	5.000	4.971	19404.27	0.0080	P	2.1	-0.6
4	☐	10.000	10.053	22666.13	0.0092	P	2.1	0.5
5	☐	100.000	95.199	70638.30	0.0285	P	1.7	-4.8
6	☐	200.000	202.390	126207.22	0.0528	P	1.5	1.2

y = 2.2693E-004 * x + 0.0069
R = 0.9996
DL = 0.1052 ppb
BEC = 30.41 ppb

Weight: <None>
Min Conc: <None>

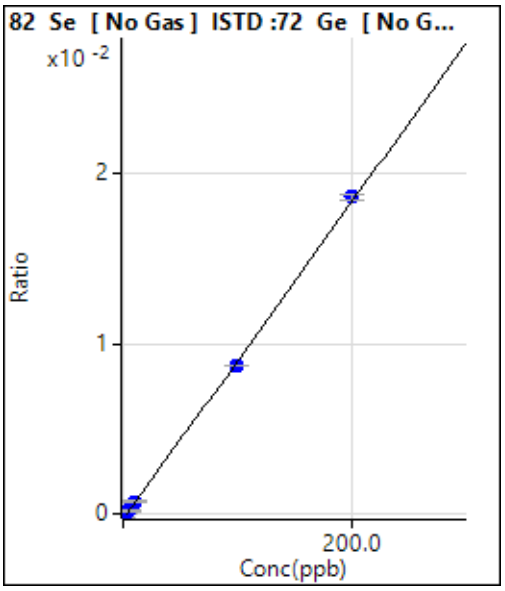


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	128.00	0.0002	P	4.8	
2	☐	2.000	2.021	292.00	0.0005	P	8.8	1.0
3	☐	5.000	5.207	532.01	0.0009	P	6.9	4.1
4	☐	10.000	10.194	948.04	0.0015	P	8.7	1.9
5	☐	100.000	97.279	7914.34	0.0129	P	3.3	-2.7
6	☐	200.000	201.345	16095.61	0.0264	P	1.6	0.7

y = 1.2998E-004 * x + 2.0602E-004
R = 0.9999
DL = 0.2305 ppb
BEC = 1.585 ppb

Weight: <None>
Min Conc: <None>

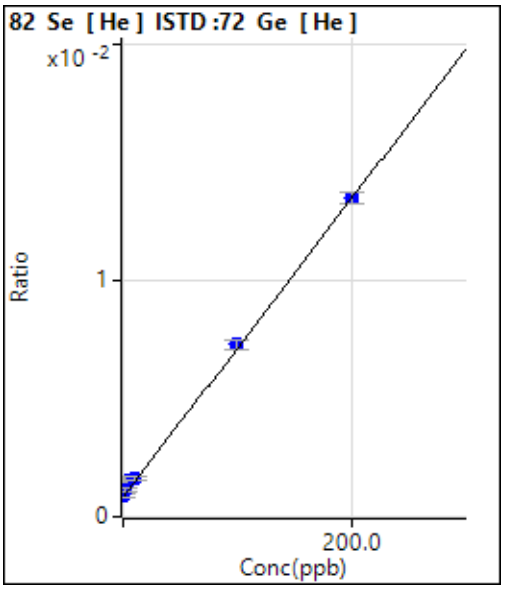
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-528.89	-0.0002	P	-18.3	
2	☐	2.000	2.507	50.96	0.0000	P	493.4	25.4
3	☐	5.000	4.690	540.12	0.0002	P	52.9	-6.2
4	☐	10.000	10.304	1843.58	0.0007	P	15.4	3.0
5	☐	100.000	95.810	21596.64	0.0087	P	1.2	-4.2
6	☐	200.000	202.082	44475.86	0.0186	P	1.6	1.0

y = 9.3185E-005 * x - 2.1295E-004
R = 0.9997
DL = 1.257 ppb
BEC = -2.285 ppb

Weight: <None>
Min Conc: <None>

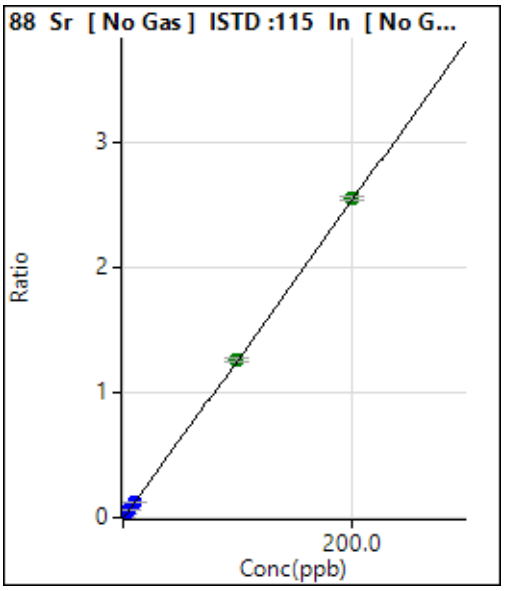


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	560.02	0.0009	P	16.5	
2	☐	2.000	3.754	710.03	0.0011	P	8.9	87.7
3	☐	5.000	10.566	946.72	0.0016	P	8.5	111.3
4	☐	10.000	11.531	1010.06	0.0016	P	11.3	15.3
5	☐	100.000	101.134	4494.17	0.0073	P	5.9	1.1
6	☐	200.000	199.200	8236.01	0.0135	P	4.2	-0.4

y = 6.3236E-005 * x + 9.0216E-004
R = 0.9997
DL = 7.074 ppb
BEC = 14.27 ppb

Weight: <None>
Min Conc: <None>

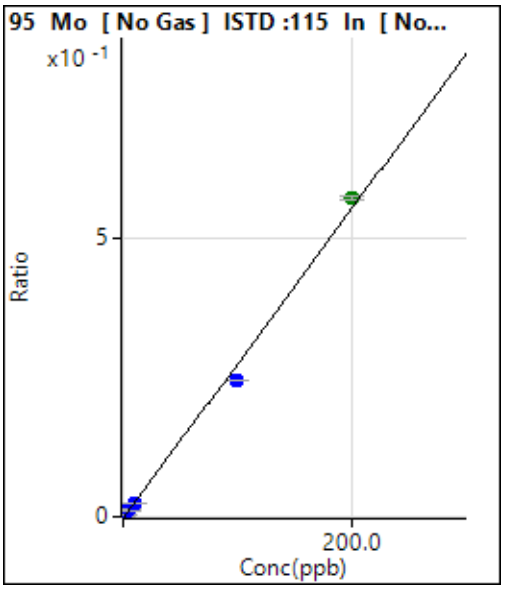
Calibration for 287_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4354.13	0.0015	P	3.9	
2	☐	2.000	1.882	73427.96	0.0254	P	0.7	-5.9
3	☐	5.000	4.665	172845.19	0.0607	P	1.1	-6.7
4	☐	10.000	9.611	357217.52	0.1236	P	1.0	-3.9
5	☐	100.000	98.849	3554677.65	1.2571	A	2.2	-1.2
6	☐	200.000	200.604	7126515.31	2.5496	A	1.4	0.3

y = 0.0127 * x + 0.0015
R = 1.0000
DL = 0.01384 ppb
BEC = 0.1174 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	41.3	
2	☐	2.000	1.695	13707.24	0.0047	P	0.7	-15.3
3	☐	5.000	4.338	34394.73	0.0121	P	1.8	-13.2
4	☐	10.000	8.927	71823.42	0.0248	P	1.6	-10.7
5	☐	100.000	88.076	692467.90	0.2448	P	0.7	-11.9
6	☐	200.000	206.035	1600804.61	0.5727	A	1.7	3.0

y = 0.0028 * x + 2.9768E-005
R = 0.9976
DL = 0.01328 ppb
BEC = 0.01071 ppb

Weight: <None>
Min Conc: <None>